In the Matter of:
THE APPLICATION OF KENTUCKY UTILITIES COMPANY)
FOR CERTIFICATES OF PUBLIC CONVENIENCE AND) CASE NO.
NECESSITY AND APPROVAL OF ITS 2011 COMPLIANCE) 2011-00161
PLAN FOR RECOVERY BY ENVIRONMENTAL SURCHARGE)

In the Matter of:
THE APPLICATION OF LOUISVILLE GAS AND ELECTRIC)
COMPANY FOR CERTIFICATES OF PUBLIC CONVENIENCE) CASE NO.
AND NECESSITY AND APPROVAL OF ITS 2011 COMPLIANCE) 2011-00162
PLAN FOR RECOVERY BY ENVIRONMENTAL SURCHARGE)

One Paper Copy of

Sinclair – Appendix B and Schram – Appendix A

Filed – October 24, 2011

Sinclair - Appendix B and Schram - Appendix A

2011-00161

2011-00162

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COMMISSION

Strategist Model Input Data (2010$)

	KU Gas	LGE Gas	HAF Gas	New Gas	LF Gas	KU/LGE Model Gas Price
2010	[redacted]					
2011						
2012						
2013						
2014						
2015						
2016						
2017						
2018						
2019						
2020						
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Sensitivity Input (p4)

	KU/LGE HH Price	Adder
2011	[redacted]	$1.30
2012		$1.18
2013		$1.17
2014		$1.19
2015		$1.21
2016		$1.36
2017		$1.41
2018		$1.45
2019		$1.50
2020		$1.56
2021		$1.62
2022		$1.69
2023		$1.77
2024		$1.85
2025		$1.94

		BLS Inflator			BLS Inflator
AEO 2010		1.0128	**AEO 2011**		1.0164
	AEO 2010 (2008$)	AEO 2010 (2010$)		AEO 2011 (2009$)	AEO 2011 (2010$)
2011	$5.77	$5.84	2011	$4.48	$4.55
2012	$6.27	$6.35	2012	$4.50	$4.57
2013	$6.22	$6.30	2013	$4.56	$4.63
2014	$6.18	$6.26	2014	$4.57	$4.64
2015	$6.37	$6.45	2015	$4.66	$4.74
2016	$6.47	$6.55	2016	$4.74	$4.82
2017	$6.48	$6.56	2017	$4.76	$4.84
2018	$6.53	$6.61	2018	$4.81	$4.89
2019	$6.61	$6.69	2019	$4.87	$4.95
2020	$6.74	$6.83	2020	$5.05	$5.13
2021	$6.84	$6.93	2021	$5.24	$5.33
2022	$7.03	$7.12	2022	$5.39	$5.48
2023	$7.06	$7.15	2023	$5.58	$5.67
2024	$7.02	$7.11	2024	$5.80	$5.90
2025	$7.10	$7.19	2025	$5.97	$6.07
2026	$7.26	$7.35	2026	$6.10	$6.20
2027	$7.40	$7.49	2027	$6.24	$6.34
2028	$7.64	$7.74	2028	$6.31	$6.41
2029	$7.89	$7.99	2029	$6.35	$6.45
2030	$8.17	$8.27	2030	$6.40	$6.50
2031	$8.52	$8.63	2031	$6.49	$6.60
2032	$8.63	$8.74	2032	$6.62	$6.73
2033	$8.66	$8.77	2033	$6.74	$6.85
2034	$8.88	$8.99	2034	$6.87	$6.98
2035	$9.01	$9.13	2035	$7.07	$7.19

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[redacted]

	AESC 2011 AESC 2011 (2011$)	BLS Deflator 0.9652 AESC 2011 (2010$)
2011	4.37	4.217924
2012	4.91	4.739132
2013	5.1	4.92252
2014	5.29	5.105908
2015	5.91	5.704332
2016	5.96	5.752592
2017	5.93	5.723636
2018	5.95	5.74294
2019	5.98	5.771896
2020	6.06	5.849112
2021	6.16	5.945632
2022	6.25	6.0325
2023	6.52	6.293104
2024	6.72	6.486144
2025	6.78	6.544056
2026	6.89	6.650228
2027	7.04	6.795008
2028	7.2	6.94944
2029	7.41	7.152132
2030	7.33	7.074916
2031	7.34	7.084568
2032	7.49	7.229348
2033	7.63	7.364476
2034	7.66	7.393432
2035	7.83	7.557516
2036	7.96	7.682992
2037	8.1	7.81812
2038	8.24	7.953248
2039	8.37	8.078724
2040	8.52	8.223504
2041	8.66	8.358632

Recommeded Value For KY INCORRECT	AESC + KY Adder	REVISED AESC + Adders
2010	$0.00	
2011	$5.52	$5.32
2012	$5.92	$5.77
2013	$6.09	$5.95
2014	$6.29	$6.14
2015	$6.92	$6.81
2016	$7.11	$6.96
2017	$7.13	$6.92
2018	$7.19	$6.93
2019	$7.27	$6.96
2020	$7.41	$7.05
2021	$7.57	$7.16
2022	$7.73	$7.25
2023	$8.06	$7.55
2024	$8.33	$7.77
2025	$8.49	$7.84
2026	$8.59	$7.96
2027	$8.74	$8.12
2028	$8.89	$8.29
2029	$9.09	$8.52
2030	$9.02	$8.43
2031	$9.03	$8.45
2032	$9.17	$8.61
2033	$9.31	$8.76
2034	$9.34	$8.79
2035	$9.50	$8.98
2036	$9.63	$9.12
2037	$9.76	$9.27
2038	$9.90	$9.43
2039	$10.02	$9.57
2040	$10.17	$9.73
2041	$10.30	$9.88

NPCC 2011 updated forecast for HH, ($2010)

	Low	Med	High
2011	4.25	4.25	4.25
2012	4.24	4.34	4.73
2013	4.24	4.43	5.20
2014	4.13	4.51	5.73
2015	4.14	4.60	6.35
2016	4.15	4.70	7.28
2017	4.16	4.79	7.32
2018	4.12	4.91	7.37
2019	4.08	5.03	7.55
2020	4.06	5.16	7.61
2021	4.11	5.29	7.81
2022	4.11	5.42	7.88
2023	4.11	5.56	7.98
2024	4.19	5.69	8.06
2025	4.20	5.84	8.25
2026	4.16	5.98	8.25
2027	4.19	6.13	8.60
2028	4.24	6.29	8.78
2029	4.27	6.44	9.12
2030	4.26	6.60	9.37

Globex futures From CME Group, Oct of each year

2011	3.75
2012	4.29
2013	4.73
2014	5.00
2015	5.20
2016	5.40
2017	5.61
2018	5.84
2019	6.06
2020	6.30
2021	6.55
2022	6.82
2023	7.09

[redacted]

EIPC Fuel and Emission Prices Subteam Review
Graphical reps.

EIPC High Scenario			Navigant GHG As-Is	Navigant GHG Plus	BLS Inflator 1.0164	*Prop. Source (2011, from EIPC review)*		*RGGI (2010, from EIPC review)*
2011	$4.99	2011	$5.11	$5.11		2011	$4.51	$4.95
2012	$5.47	2012	$5.20	$5.32		2012	$5.36	$5.42
2013	$5.88	2013	$3.56	$4.70		2013	$5.84	$5.46
2014	$6.22	2014	$3.15	$4.56		2014	$6.30	$5.59
2015	$6.40	2015	$3.34	$4.57		2015	$6.81	$5.72
2016	$6.56	2016	$3.38	$4.58		2016	$6.78	$5.84
2017	$6.70	2017	$3.51	$4.66		2017	$6.37	$5.97
2018	$6.90	2018	$3.56	$4.73		2018	$6.48	$6.05
2019	$7.19	2019	$3.68	$4.87		2019	$6.58	$6.08
2020	$7.30	2020	$3.91	$5.07		2020	$6.69	$6.23
2021	$7.27	2021	$3.97	$5.36		2021	$6.69	$6.45
2022	$7.61	2022	$4.12	$5.67		2022	$6.89	$6.60
2023	$8.07	2023	$4.30	$6.00		2023	$7.16	$6.66
2024	$8.48	2024	$4.54	$6.37		2024	$7.41	$6.86
2025	$8.87	2025	$4.68	$6.70		2025	$7.28	$7.05
2026	$9.08	2026	$4.84	$7.01		2026	$6.92	$7.35
2027	$9.31	2027	$5.01	$7.36		2027	$6.44	$7.61
2028	$9.67	2028	$5.17	$7.68		2028	$6.50	$7.85
2029	$9.96	2029	$5.42	$8.15		2029	$6.59	$8.05
2030	$10.18	2030	$5.64	$8.64		2030	$6.89	$8.23
		2031	$5.91	$9.17				
		2032	$6.14	$9.70				
		2033	$6.48	$10.35				
		2034	$6.76	$11.04				
		2035	$7.08	$11.62				

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EPA (2010, from EIPC review)	2011 Compliance Plan	LG&E/KU Compliance Plan - Real 2010$	LG&E/KU Compliance Plan - Nominal $
	2011		
$4.27	2012	[redacted]	
$4.60	2013		
$4.85	2014		
$5.09	2015		
$4.92	2016		
$4.77	2017		
$4.69	2018		
$4.63	2019		
$4.46	2020		
$4.66	2021		
$4.82	2022		
$4.93	2023		
$4.99	2024		
$5.18	2025		
$5.31	2026		
$5.50	2027		
$5.68	2028		
$5.81	2029		
$5.92	2030		

Wood Mackenzie
From Company Supplemental Analysis - Septemeber 14th

	2011 Wood Mackenzie
2012	5.21
2013	5.67
2014	5.69
2015	5.97
2016	6.29
2017	6.39
2018	6.45
2019	6.73
2020	7.1
2021	7.67
2022	7.85
2023	8.05
2024	8.09
2025	8.21

Natural Gas Supply, Disposition, and Prices, Reference case
(trillion cubic feet, unless otherwise noted)

Supply, Disposition, and Prices	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	Growth Rate (2009-2035)
Production																													
Dry Gas Production 1/	20.29	20.96	21.28	21.06	21.27	21.73	22.02	22.43	22.47	22.65	22.92	23.2	23.43	23.53	23.7	23.85	23.86	23.98	24.07	24.29	24.57	24.82	25.1	25.36	25.55	25.75	26	26.32	0.90%
Supplemental Natural Gas 2/	0.06	0.06	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.00%
Net Imports	**2.98**	**2.64**	**2.74**	**2.75**	**2.64**	**2.72**	**2.71**	**2.69**	**2.63**	**2.55**	**2.42**	**2.22**	**1.9**	**1.6**	**1.38**	**1.23**	**1.15**	**1.08**	**0.98**	**0.91**	**0.81**	**0.77**	**0.78**	**0.72**	**0.64**	**0.52**	**0.37**	**0.18**	-9.70%
Pipeline 3/	2.68	2.23	2.33	2.31	2.17	2.22	2.26	2.33	2.26	2.14	2	1.75	1.4	1.09	0.88	0.78	0.77	0.74	0.71	0.69	0.67	0.63	0.64	0.58	0.5	0.38	0.23	0.04	-14.00%
Liquefied Natural Gas	0.3	0.41	0.41	0.44	0.47	0.5	0.45	0.36	0.36	0.41	0.43	0.47	0.5	0.52	0.49	0.45	0.39	0.34	0.27	0.22	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	-4.10%
Total Supply	**23.33**	**23.66**	**24.08**	**23.87**	**23.98**	**24.51**	**24.79**	**25.18**	**25.16**	**25.26**	**25.4**	**25.49**	**25.4**	**25.2**	**25.14**	**25.14**	**25.07**	**25.12**	**25.12**	**25.26**	**25.44**	**25.66**	**25.94**	**26.14**	**26.26**	**26.34**	**26.43**	**26.57**	0.40%
Consumption by Sector																													
Residential	4.87	4.75	4.77	4.76	4.78	4.79	4.81	4.81	4.83	4.82	4.83	4.83	4.85	4.83	4.83	4.83	4.85	4.83	4.83	4.83	4.84	4.83	4.82	4.82	4.82	4.8	4.79	4.78	0.00%
Commercial	3.13	3.11	3.1	3.22	3.24	3.28	3.33	3.38	3.41	3.43	3.46	3.48	3.49	3.5	3.52	3.53	3.55	3.56	3.58	3.6	3.62	3.65	3.68	3.71	3.73	3.76	3.79	3.82	0.80%
Industrial 4/	6.65	6.14	6.55	6.95	7.19	7.6	7.83	8.05	8.09	8.11	8.16	8.19	8.24	8.21	8.14	8.13	8.13	8.1	8.08	8.06	8.04	8.06	8.08	8.08	8.06	8.04	8.03	8.02	1.00%
Natural Gas-to-Liquids Heat and Power 5/	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	- -
Natural Gas to Liquids Production 6/	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	- -
Electric Power 7/	6.67	6.89	7.44	7.01	6.8	6.87	6.87	6.98	6.89	6.95	7	7.02	6.84	6.69	6.68	6.67	6.59	6.66	6.66	6.8	6.95	7.13	7.34	7.51	7.6	7.69	7.76	7.88	0.50%
Transportation 8/	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.05	0.05	0.06	0.06	0.07	0.07	0.08	0.09	0.1	0.1	0.11	0.12	0.12	0.13	0.14	0.14	0.15	0.15	0.16	0.16	7.50%
Pipeline Fuel	0.65	0.64	0.65	0.64	0.64	0.64	0.65	0.65	0.64	0.64	0.64	0.64	0.64	0.63	0.63	0.63	0.63	0.62	0.62	0.62	0.63	0.63	0.64	0.64	0.64	0.64	0.65	0.65	0.10%
Lease and Plant Fuel 9/	1.22	1.16	1.29	1.27	1.24	1.22	1.2	1.2	1.2	1.2	1.2	1.2	1.21	1.2	1.2	1.2	1.19	1.19	1.19	1.19	1.19	1.2	1.2	1.21	1.22	1.23	1.24	1.25	0.30%
Total	**23.22**	**22.71**	**23.83**	**23.86**	**23.91**	**24.44**	**24.72**	**25.11**	**25.1**	**25.2**	**25.34**	**25.43**	**25.34**	**25.14**	**25.09**	**25.09**	**25.02**	**25.07**	**25.07**	**25.22**	**25.4**	**25.62**	**25.9**	**26.11**	**26.23**	**26.31**	**26.41**	**26.55**	0.60%
Discrepancy 10/	**0.11**	**0.95**	**0.26**	**0.01**	**0.07**	**0.07**	**0.07**	**0.07**	**0.07**	**0.07**	**0.07**	**0.06**	**0.06**	**0.06**	**0.06**	**0.05**	**0.05**	**0.05**	**0.05**	**0.04**	**0.04**	**0.04**	**0.04**	**0.03**	**0.03**	**0.03**	**0.03**	**0.02**	- -
Natural Gas Prices																													
(2009 dollars per million Btu)																													
Henry Hub Spot Price	8.94	3.95	4.43	4.48	4.5	4.56	4.57	4.66	4.74	4.76	4.81	4.87	5.05	5.24	5.39	5.58	5.8	5.97	6.1	6.24	6.31	6.35	6.4	6.49	6.62	6.74	6.87	7.07	2.30%
Average Lower 48 Wellhead Price 11/	7.96	3.62	3.98	3.99	3.98	4.04	4.05	4.13	4.2	4.22	4.26	4.31	4.47	4.64	4.77	4.94	5.13	5.29	5.4	5.52	5.59	5.62	5.66	5.75	5.86	5.96	6.09	6.26	2.10%
(2009 dollars per thousand cubic feet)																													
Average Lower 48 Wellhead Price 11/	8.18	3.71	4.08	4.09	4.09	4.15	4.16	4.24	4.31	4.33	4.37	4.43	4.59	4.76	4.9	5.07	5.27	5.43	5.54	5.67	5.73	5.77	5.81	5.9	6.01	6.12	6.24	6.42	2.10%
Delivered Prices																													
Residential	13.99	12.2	11.31	10.56	10.44	10.39	10.28	10.39	10.5	10.61	10.74	10.9	11.16	11.38	11.55	11.75	11.96	12.15	12.31	12.51	12.63	12.74	12.85	12.99	13.14	13.33	13.52	13.76	0.50%
Commercial	12.32	9.94	9.15	9.3	9.03	8.8	8.52	8.6	8.68	8.74	8.84	8.96	9.19	9.37	9.51	9.68	9.88	10.03	10.16	10.32	10.43	10.49	10.57	10.67	10.79	10.93	11.08	11.28	0.50%
Industrial 4/	9.32	5.39	4.93	4.99	4.99	5.03	5.04	5.1	5.16	5.19	5.24	5.32	5.5	5.67	5.82	5.98	6.17	6.33	6.46	6.6	6.68	6.72	6.76	6.83	6.95	7.07	7.21	7.4	1.20%
Electric Power 7/	9.35	4.94	5.2	4.84	4.76	4.75	4.71	4.79	4.83	4.87	4.92	4.99	5.13	5.28	5.41	5.57	5.74	5.91	6.02	6.16	6.24	6.3	6.36	6.45	6.55	6.66	6.79	6.97	1.30%
Transportation 12/	17.67	13.05	12.37	12.35	12.3	12.3	12.27	12.29	12.32	12.33	12.37	12.44	12.58	12.71	12.81	12.93	13.07	13.19	13.27	13.38	13.44	13.46	13.49	13.55	13.62	13.7	13.8	13.94	0.30%
Average 13/	**10.84**	**7.47**	**7.02**	**6.79**	**6.7**	**6.64**	**6.56**	**6.62**	**6.7**	**6.75**	**6.82**	**6.92**	**7.13**	**7.32**	**7.47**	**7.65**	**7.85**	**8.01**	**8.15**	**8.29**	**8.38**	**8.43**	**8.48**	**8.56**	**8.68**	**8.8**	**8.95**	**9.14**	0.80%
(nominal dollars per million Btu)																													
Henry Hub Spot Price	8.86	3.95	4.47	4.58	4.65	4.79	4.89	5.09	5.27	5.41	5.58	5.77	6.1	6.45	6.76	7.12	7.53	7.9	8.21	8.56	8.82	9.04	9.28	9.59	9.96	10.34	10.76	11.28	4.10%
Average Lower 48 Wellhead Price 11/	7.89	3.62	4.01	4.08	4.12	4.25	4.33	4.51	4.67	4.79	4.94	5.11	5.4	5.71	5.99	6.3	6.67	6.99	7.27	7.58	7.81	8	8.21	8.49	8.82	9.15	9.52	9.99	4.00%
(nominal dollars per thousand cubic feet)																													
Average Lower 48 Wellhead Price 11/	8.1	3.71	4.12	4.19	4.23	4.36	4.45	4.63	4.79	4.92	5.07	5.24	5.55	5.86	6.14	6.46	6.84	7.18	7.46	7.77	8.01	8.21	8.43	8.71	9.05	9.39	9.77	10.24	4.00%
Delivered Prices																													
Residential	13.86	12.2	11.41	10.8	10.79	10.92	11	11.34	11.69	12.05	12.46	12.9	13.48	14.01	14.49	14.99	15.54	16.08	16.58	17.15	17.65	18.14	18.63	19.18	19.78	20.46	21.15	21.95	2.30%
Commercial	12.2	9.94	9.23	9.51	9.33	9.25	9.12	9.38	9.66	9.94	10.25	10.61	11.1	11.54	11.93	12.35	12.83	13.27	13.69	14.16	14.57	14.94	15.32	15.76	16.25	16.78	17.34	18	2.30%
Industrial 4/	9.24	5.39	4.97	5.1	5.16	5.28	5.39	5.56	5.75	5.9	6.08	6.3	6.65	6.99	7.29	7.63	8.02	8.38	8.69	9.05	9.33	9.57	9.8	10.09	10.46	10.84	11.28	11.82	3.10%
Electric Power 7/	9.26	4.94	5.24	4.94	4.93	5	5.04	5.23	5.38	5.53	5.71	5.91	6.2	6.5	6.79	7.11	7.45	7.81	8.11	8.45	8.73	8.97	9.22	9.52	9.87	10.23	10.63	11.13	3.20%
Transportation 12/	17.5	13.05	12.48	12.62	12.72	12.93	13.13	13.42	13.71	14.02	14.36	14.73	15.2	15.65	16.06	16.5	16.98	17.44	17.87	18.35	18.78	19.17	19.56	20.01	20.5	21.03	21.59	22.25	2.10%
Average 13/	10.74	7.47	7.08	6.94	6.93	6.98	7.02	7.22	7.46	7.67	7.91	8.19	8.61	9.01	9.37	9.76	10.2	10.6	10.97	11.37	11.71	12	12.29	12.64	13.06	13.51	14	14.58	2.60%

1/ Marketed production (wet) minus extraction losses.
2/ Synthetic natural gas, propane air, coke oven gas, refinery gas, biomass gas, air injected for Btu stabilization, and manufactured gas commingled and distributed with natural gas.
3/ Includes any natural gas regasified in the Bahamas and transported via pipeline to Florida, as well as gas from Canada and Mexico.
4/ Includes energy for combined heat and power plants, except those whose primary business is to sell electricity, or electricity and heat, to the public.
5/ Includes any natural gas used in the process of converting natural gas to liquid fuel that is not actually converted.
6/ Includes any natural gas converted into liquid fuel.
7/ Includes consumption of energy by electricity-only and combined heat and power plants whose primary

business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

8/ Compressed natural gas used as vehicle fuel.

9/ Represents natural gas used in well, field, and lease operations, and in natural gas processing plant machinery.

10/ Balancing item. Natural gas lost as a result of converting flow data measured at varying temperatures and pressures to a standard temperature and pressure and the merger of different data reporting systems which vary in scope, format, definition, and respondent type. In addition, 2008 and 2009 values include net storage injections.

11/ Represents lower 48 onshore and offshore supplies.

12/ Compressed natural gas used as a vehicle fuel. Price includes estimated motor vehicle fuel taxes and estimated dispensing costs or charges.

13/ Weighted average prices. Weights used are the sectoral consumption values excluding lease, plant, and pipeline fuel.

- - = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2008 and 2009 are model results and may differ slightly from official EIA data reports.

Sources: 2008 supply values; and lease, plant, and pipeline fuel consumption: Energy Information Administration (EIA), Natural Gas Annual 2008, DOE/EIA-0131(2008) (Washington, DC, March 2010). 2009 supply values; and lease, plant, and pipeline fuel consumption; and wellhead price: EIA, Natural Gas Monthly, DOE/EIA-0130(2010/07) (Washington, DC, July 2010). Other 2008 and 2009 consumption based on: EIA, Annual Energy Review 2009, DOE/EIA-0384(2009) (Washington, DC, August 2010). 2008 wellhead price: Bureau of Energy Management, Regulation and Enforcement; and EIA, Natural Gas Annual 2008, DOE/EIA-0131(2008) (Washington, DC, March 2010). 2008 residential and commercial delivered prices: EIA, Natural Gas Annual 2008, DOE/EIA-0131(2008) (Washington, DC, March 2010). 2009 residential and commercial delivered prices: EIA, Natural Gas Monthly, DOE/EIA-0130 (2010/07) (Washington, DC, July 2010). 2008 and 2009 electric power prices: EIA, Electric Power Monthly, DOE/EIA-0226, April 2009 and April 2010, Table 4.13.B. 2008 and 2009 industrial delivered prices are estimated based on: EIA, Manufacturing Energy Consumption Survey and industrial and wellhead prices from the Natural Gas Annual 2008, DOE/EIA-0131(2008) (Washington, DC, March 2010) and the Natural Gas Monthly, DOE/EIA-0130(2010/07) (Washington, DC, July 2010). 2008 transportation sector delivered prices are based on: EIA, Natural Gas Annual 2008, DOE/EIA-0131(2008) (Washington, DC, March 2010) and estimated state taxes, federal taxes, and dispensing costs or charges. 2009 transportation sector delivered prices are model results.

Projections: EIA, AEO2011 National Energy Modeling System.

Natural Gas Supply, Disposition, and Prices, AEO2010 Reference case
(trillion cubic feet, unless otherwise noted)

Supply, Disposition, and Prices	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	Growth Rate (2009-2035)
Production																													
Dry Gas Production 1/	20.56	20.6	20.01	19.46	19.28	18.9	18.91	19.29	19.3	19.42	19.59	19.79	19.98	19.92	20.1	20.53	21.17	21.31	21.65	21.85	22.09	22.26	22.38	22.53	22.71	22.96	23.18	23.27	0.50%
Supplemental Natural Gas 2/	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.40%
Net Imports	**2.95**	**2.76**	**2.82**	**2.78**	**2.62**	**2.36**	**2.32**	**2.38**	**2.48**	**2.57**	**2.58**	**2.59**	**2.57**	**2.58**	**2.53**	**2.34**	**2.22**	**2.17**	**2.1**	**2.06**	**2**	**1.91**	**1.84**	**1.79**	**1.73**	**1.62**	**1.53**	**1.46**	-2.40%
Pipeline 3/	2.65	2.34	2.21	2.08	1.81	1.48	1.34	1.29	1.25	1.19	1.14	1.11	1.07	1.07	1.05	0.93	0.88	0.89	0.89	0.92	0.94	0.94	0.94	0.95	0.92	0.83	0.74	0.64	-4.90%
Liquefied Natural Gas	0.3	0.42	0.61	0.7	0.82	0.87	0.97	1.09	1.23	1.38	1.45	1.48	1.5	1.51	1.48	1.41	1.34	1.28	1.21	1.14	1.07	0.98	0.89	0.84	0.81	0.79	0.8	0.83	2.70%
Total Supply	**23.57**	**23.42**	**22.88**	**22.3**	**21.97**	**21.32**	**21.29**	**21.73**	**21.85**	**22.06**	**22.24**	**22.44**	**22.61**	**22.56**	**22.69**	**22.94**	**23.46**	**23.54**	**23.82**	**23.98**	**24.16**	**24.24**	**24.28**	**24.38**	**24.5**	**24.64**	**24.78**	**24.8**	0.20%
Consumption by Sector																													
Residential	4.87	4.77	4.81	4.66	4.66	4.67	4.69	4.71	4.74	4.75	4.77	4.79	4.83	4.83	4.84	4.85	4.89	4.89	4.91	4.91	4.92	4.9	4.89	4.89	4.9	4.88	4.88	4.87	0.10%
Commercial	3.12	3.07	3.2	3.18	3.19	3.18	3.21	3.23	3.25	3.27	3.29	3.32	3.33	3.35	3.37	3.39	3.42	3.45	3.48	3.5	3.52	3.54	3.55	3.57	3.59	3.62	3.65	3.69	0.70%
Industrial 4/	6.65	5.95	6.05	6.22	6.52	6.73	6.86	6.88	6.91	6.93	6.98	7.01	7.03	7.01	6.98	6.95	6.96	6.94	6.88	6.86	6.81	6.78	6.74	6.74	6.72	6.72	6.72	6.72	0.50%
Natural Gas-to-Liquids Heat and Power 5/	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 - -	
Natural Gas to Liquids Production 6/	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 - -	
Electric Power 7/	6.66	6.86	6.55	6.11	5.68	5.04	4.82	5.18	5.23	5.38	5.46	5.56	5.66	5.6	5.71	5.89	6.23	6.28	6.57	6.7	6.88	6.99	7.04	7.13	7.23	7.34	7.43	7.42	0.30%
Transportation 8/	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.06	0.06	0.07	0.07	0.08	0.09	0.09	0.1	0.11	0.11	0.12	0.13	0.14	0.14	0.15	0.16	0.17	0.18	0.18	0.19	6.10%
Pipeline Fuel	0.63	0.61	0.62	0.6	0.6	0.58	0.59	0.6	0.6	0.6	0.61	0.61	0.62	0.61	0.62	0.65	0.69	0.7	0.7	0.71	0.71	0.71	0.72	0.72	0.72	0.72	0.72	0.72	0.60%
Lease and Plant Fuel 9/	1.28	1.29	1.25	1.18	1.13	1.07	1.07	1.08	1.07	1.07	1.08	1.09	1.09	1.09	1.1	1.14	1.19	1.19	1.21	1.22	1.22	1.23	1.23	1.23	1.24	1.24	1.26	1.25	-0.10%
Total	**23.25**	**22.59**	**22.51**	**21.99**	**21.82**	**21.32**	**21.29**	**21.74**	**21.86**	**22.07**	**22.25**	**22.45**	**22.63**	**22.58**	**22.71**	**22.96**	**23.49**	**23.57**	**23.86**	**24.02**	**24.2**	**24.29**	**24.33**	**24.43**	**24.56**	**24.7**	**24.84**	**24.86**	0.40%
Discrepancy 10/	**0.32**	**0.83**	**0.37**	**0.31**	**0.15**	**0**	**0**	**-0.01**	**-0.01**	**-0.01**	**-0.01**	**-0.02**	**-0.02**	**-0.02**	**-0.02**	**-0.03**	**-0.03**	**-0.03**	**-0.04**	**-0.04**	**-0.04**	**-0.05**	**-0.05**	**-0.05**	**-0.06**	**-0.06**	**-0.06**	**-0.07 - -**	
Natural Gas Prices																													
(2009 dollars per million Btu)																													
Henry Hub Spot Price	8.99	3.54	4.57	5.77	6.27	6.22	6.18	6.37	6.47	6.48	6.53	6.61	6.74	6.84	7.03	7.06	7.02	7.1	7.26	7.4	7.64	7.89	8.17	8.52	8.63	8.66	8.88	9.01	3.70%
Average Lower 48 Wellhead Price 11/	7.97	3.29	4	5.1	5.54	5.5	5.46	5.63	5.72	5.73	5.77	5.84	5.96	6.05	6.22	6.24	6.2	6.27	6.41	6.54	6.75	6.97	7.22	7.52	7.62	7.65	7.85	7.96	3.50%
(2009 dollars per thousand cubic feet)																													
Average Lower 48 Wellhead Price 11/	8.19	3.38	4.11	5.24	5.69	5.65	5.61	5.78	5.88	5.89	5.93	6	6.12	6.22	6.39	6.42	6.38	6.45	6.59	6.72	6.94	7.17	7.42	7.73	7.83	7.86	8.06	8.19	3.50%
Delivered Prices																													
Residential	14.08	11.9	11.38	12.3	12.4	11.99	11.92	12.07	12.17	12.21	12.28	12.36	12.49	12.61	12.81	12.84	12.74	12.84	13.02	13.22	13.48	13.75	14.04	14.39	14.55	14.66	14.88	15.04	0.90%
Commercial	12.48	9.45	9.06	10.16	10.52	10.36	10.29	10.44	10.54	10.56	10.62	10.69	10.82	10.93	11.12	11.16	11.1	11.18	11.35	11.53	11.79	12.03	12.31	12.65	12.8	12.87	13.08	13.22	1.30%
Industrial 4/	9.52	4.39	5.09	6.24	6.68	6.62	6.56	6.73	6.81	6.8	6.84	6.89	7	7.09	7.28	7.33	7.28	7.33	7.47	7.61	7.85	8.07	8.34	8.66	8.77	8.79	9	9.12	2.90%
Electric Power 7/	9.48	4.31	5.05	6.07	6.43	6.19	6.15	6.34	6.43	6.44	6.48	6.55	6.69	6.79	6.98	7.03	6.98	7.04	7.2	7.35	7.58	7.83	8.06	8.37	8.48	8.52	8.71	8.82	2.80%
Transportation 12/	16.67	11.87	12.53	13.67	14.09	13.96	13.85	13.97	14.01	13.98	13.97	13.98	14.04	14.07	14.18	14.15	14	14.03	14.14	14.26	14.44	14.62	14.83	15.1	15.19	15.19	15.35	15.44	1.00%
Average 13/	**10.99**	**6.86**	**7.17**	**8.21**	**8.56**	**8.4**	**8.37**	**8.5**	**8.58**	**8.58**	**8.63**	**8.69**	**8.81**	**8.93**	**9.11**	**9.15**	**9.06**	**9.13**	**9.28**	**9.43**	**9.67**	**9.91**	**10.17**	**10.49**	**10.62**	**10.66**	**10.86**	**11**	1.80%
(nominal dollars per million Btu)																													
Henry Hub Spot Price	8.86	3.54	4.64	5.93	6.53	6.6	6.67	6.99	7.23	7.38	7.57	7.8	8.11	8.41	8.84	9.06	9.2	9.49	9.91	10.31	10.88	11.48	12.15	12.94	13.4	13.74	14.4	14.92	5.70%
Average Lower 48 Wellhead Price 11/	7.85	3.29	4.06	5.24	5.77	5.83	5.89	6.17	6.39	6.52	6.69	6.89	7.17	7.43	7.81	8.01	8.13	8.38	8.75	9.11	9.61	10.14	10.73	11.43	11.84	12.14	12.72	13.18	5.50%
(nominal dollars per thousand cubic feet)																													
Average Lower 48 Wellhead Price 11/	8.07	3.38	4.17	5.39	5.94	6	6.06	6.35	6.57	6.7	6.88	7.08	7.37	7.64	8.03	8.23	8.35	8.62	9	9.37	9.88	10.43	11.03	11.75	12.17	12.48	13.07	13.55	5.50%
Delivered Prices																													
Residential	13.87	11.9	11.54	12.65	12.93	12.72	12.87	13.25	13.6	13.9	14.24	14.59	15.03	15.5	16.09	16.47	16.69	17.16	17.76	18.42	19.19	20	20.88	21.87	22.61	23.26	24.12	24.9	2.90%
Commercial	12.29	9.45	9.19	10.44	10.96	10.99	11.11	11.46	11.77	12.01	12.31	12.62	13.02	13.43	13.97	14.33	14.54	14.95	15.49	16.07	16.78	17.5	18.3	19.23	19.9	20.43	21.21	21.89	3.30%
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Transportation 12/	16.42	11.87	12.72	14.06	14.69	14.81	14.95	15.33	15.65	15.9	16.19	16.5	16.9	17.29	17.82	18.16	18.35	18.76	19.3	19.87	20.56	21.27	22.04	22.95	23.6	24.12	24.89	25.56	3.00%
Average 13/	10.83	6.86	7.28	8.44	8.92	8.92	9.03	9.33	9.59	9.77	10	10.26	10.61	10.97	11.45	11.74	11.87	12.21	12.66	13.15	13.76	14.41	15.11	15.94	16.5	16.92	17.6	18.2	3.80%

1/ Marketed production (wet) minus extraction losses.

2/ Synthetic natural gas, propane air, coke oven gas, refinery gas, biomass gas, air injected for Btu stabilization, and manufactured gas commingled and distributed with natural gas.

3/ Includes any natural gas regasified in the Bahamas and transported via pipeline to Florida, as well as gas from Canada and Mexico.

4/ Includes energy for combined heat and power plants, except those whose primary business is to sell electricity, or electricity and heat, to the public.

5/ Includes any natural gas used in the process of converting natural gas to liquid fuel that is not actually converted.

6/ Includes any natural gas converted into liquid fuel.

7/ Includes consumption of energy by electricity-only and combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.

8/ Compressed natural gas used as vehicle fuel.

9/ Represents natural gas used in well, field, and lease operations, and in natural gas processing plant machinery.

10/ Balancing item. Natural gas lost as a result of converting flow data measured at varying temperatures and pressures to a standard temperature and pressure and the merger of different data reporting systems which vary in scope, format, definition, and respondent type. In addition, 2008 and 2009 values include net storage injections.

11/ Represents lower 48 onshore and offshore supplies.

12/ Compressed natural gas used as a vehicle fuel. Price includes estimated motor vehicle fuel taxes and estimated dispensing costs or charges.

13/ Weighted average prices. Weights used are the sectoral consumption values excluding lease, plant, and pipeline fuel.

- - = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2008 and 2009 are model results and may differ slightly from official EIA data reports.

Sources: 2008 supply values; and lease, plant, and pipeline fuel consumption: Energy Information Administration (EIA), Natural Gas Annual 2008, DOE/EIA-0131(2008) (Washington, DC, March 2010). 2009 supply values; and lease, plant, and pipeline fuel consumption; and wellhead price: EIA, Natural Gas Monthly, DOE/EIA-0130(2010/07) (Washington, DC, July 2010).
Other 2008 and 2009 consumption based on: EIA, Annual Energy Review 2009, DOE/EIA-0384(2009) (Washington, DC, August 2010).
2008 wellhead price: Bureau of Energy Management, Regulation and Enforcement; and EIA, Natural Gas Annual 2008, DOE/EIA-0131(2008) (Washington, DC, March 2010).
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2009 residential and commercial delivered prices: EIA, Natural Gas Monthly, DOE/EIA-0130 (2010/07) (Washington, DC, July 2010). 2008 and 2009 electric power prices: EIA, Electric Power Monthly, DOE/EIA-0226, April 2009 and April 2010, Table 4.13.B. 2008 and 2009 industrial delivered prices are estimated based on: EIA, Manufacturing Energy Consumption Survey and industrial and wellhead prices from the Natural Gas Annual 2008, DOE/EIA-0131(2008) (Washington, DC, March 2010) and the Natural Gas Monthly, DOE/EIA-0130(2010/07) (Washington, DC, July 2010). 2008 transportation sector delivered prices are based on: EIA, Natural Gas Annual 2008, DOE/EIA-0131(2008) (Washington, DC, March 2010) and estimated state taxes, federal taxes, and dispensing costs or charges.
2009 transportation sector delivered prices are model results.
Projections: EIA, AEO2011 National Energy Modeling System.

Northwest Power and Conservation Council
Aug-11
Update to Council's Forecast of Fuel Prices (pg. 6-7)

Forecasts in $2010

	Low	Medium	High
2010	$4.25	$4.25	$4.25
2011	$4.24	$4.34	$4.73
2012	$4.24	$4.43	$5.20
2013	$4.13	$4.51	$5.73
2014	$4.14	$4.60	$6.35
2015	$4.15	$4.70	$7.28
2016	$4.16	$4.79	$7.32
2017	$4.12	$4.91	$7.37
2018	$4.08	$5.03	$7.55
2019	$4.06	$5.16	$7.61
2020	$4.11	$5.29	$7.81
2021	$4.11	$5.42	$7.88
2022	$4.11	$5.56	$7.98
2023	$4.19	$5.69	$8.06
2024	$4.20	$5.84	$8.25
2025	$4.16	$5.98	$8.25
2026	$4.19	$6.13	$8.60
2027	$4.24	$6.29	$8.78
2028	$4.27	$6.44	$9.12
2029	$4.26	$6.60	$9.37
2030	$4.33	$6.77	$9.70

Forecasts in Nominal$

	Low	Med	High	*inflation fac*
2010	4.2	4.2	4.2	1.01
2011	4.3	4.4	4.8	0.99
2012	4.4	4.6	5.4	0.96
2013	4.4	4.8	6.1	0.94
2014	4.5	5	6.9	0.92
2015	4.5	5.1	7.9	0.92
2016	4.6	5.3	8.1	0.90
2017	4.7	5.6	8.4	0.88
2018	4.7	5.8	8.7	0.87
2019	4.8	6.1	9	0.85
2020	4.9	6.3	9.3	0.84
2021	5	6.6	9.6	0.82
2022	5.1	6.9	9.9	0.81
2023	5.3	7.2	10.2	0.79
2024	5.4	7.5	10.6	0.78
2025	5.5	7.9	10.9	0.76
2026	5.6	8.2	11.5	0.75
2027	5.8	8.6	12	0.73
2028	5.9	8.9	12.6	0.72
2029	6	9.3	13.2	0.71
2030	6.2	9.7	13.9	0.70

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Henry Hub Natural Gas Futures

Daily Settlements for Henry Hub Natural Gas Futures (FINAL)Trade Date: 09/12/2011

http://www.cmegroup.com/trading/energy/natural-gas/natural-gas_qu

Month	Open	High	Low	Last	Change	**Settle**	Estimated Volume	Prior Day Open Interest
11-Oct	3.9	3.925	3.826	3.905	-0.03	**3.885**	103,178	150,654
11-Nov	3.979	4.008	3.916	3.984	-0.032	**3.966**	53,878	199,710
11-Dec	4.151	4.202	4.12	4.191	-0.024	**4.172**	29,942	85,770
12-Jan	4.264	4.319	4.236	4.308	-0.016	**4.292**	22,405	162,319
12-Feb	4.3	4.331	4.25	4.325	-0.014	**4.31**	6,616	37,562
12-Mar	4.27	4.304	4.222	4.298	-0.013	**4.285**	12,074	43,759
12-Apr	4.239	4.285B	4.2	4.275	-0.014	**4.262**	9,962	73,906
12-May	4.275	4.312B	4.23	4.304	-0.015	**4.29**	766	17,992
12-Jun	4.313	4.352B	4.279	4.343	-0.015	**4.332**	351	14,117
JLY 12	4.378	4.397B	4.349	4.391	-0.015	**4.378**	271	11,036
12-Aug	4.385	4.424B	4.384	4.416	-0.015	**4.406**	194	10,256
12-Sep	4.41	4.429B	4.385	4.423	-0.015	**4.411**	713	9,191
12-Oct	4.444	4.462	4.41	4.455	-0.014	**4.442**	2,421	45,028
12-Nov	4.57	4.624B	4.57	4.6	-0.011	**4.607**	250	8,792
12-Dec	4.84	4.883	4.84	4.85	-0.009	**4.867**	625	12,437
13-Jan	4.985	5.015	4.975	5.015	-0.006	**5.002**	1,067	21,376
13-Feb	4.95	4.990B	4.943	4.989	-0.006	**4.978**	99	2,794
13-Mar	5	5	4.923	4.929	-0.004	**4.912**	1,404	11,452
13-Apr	4.721	4.785	4.721	4.76	-0.009	**4.765**	947	12,068
13-May	4.8	4.8	4.779	4.79	-0.009	**4.784**	23	1,961
13-Jun	4.83	4.83	4.808A	4.828	-0.009	**4.814**	2	1,608
JLY 13	4.861	4.861	4.844A	4.848	-0.009	**4.853**	5	1,379
13-Aug	4.98	4.98	4.868A	4.869B	-0.009	**4.873**	1	1,087
13-Sep	4.838	4.870B	4.838	4.870B	-0.009	**4.879**	3	943
13-Oct	4.868	4.94	4.868	4.94	-0.009	**4.905**	14	2,824
13-Nov	5.07	5.07	5.041A	5.06	-0.009	**5.038**	9	980
13-Dec	5.3	5.3	5.265	5.3	-0.006	**5.266**	17	6,259
14-Jan	5.385	5.385	5.385	5.385	-0.006	**5.386**	9	3,635
14-Feb	5.355	5.4	5.355	5.4	-0.006	**5.354**	14	410
14-Mar	5.27	5.315	5.27	5.315	-0.007	**5.269**	12	965
14-Apr	5.06	5.115	5.06	5.115	-0.012	**5.054**	9	3,255
14-May	5.07	5.13	5.067A	5.13	-0.013	**5.065**	8	457
14-Jun	5.1	5.1	5.095A	5.1	-0.013	**5.093**	2	290
JLY 14	5.135	5.135	5.133A	5.135	-0.013	**5.128**	1	522
14-Aug	5.15	5.15	5.15	5.15	-0.013	**5.15**	2	319
14-Sep	5.165	5.165	5.165	5.165	-0.013	**5.157**	1	424
14-Oct	5.19	5.19	5.19	5.19	-0.013	**5.185**	3	828
14-Nov	5.315	5.315	5.315	5.315	-0.013	**5.31**	5	309
14-Dec	-	-	5.535A	5.535A	-0.013	**5.53**	-	508
15-Jan	-	-	-	-	-0.013	**5.645**	-	596
15-Feb	-	-	-	-	-0.013	**5.612**	-	186
15-Mar	-	-	-	-	-0.013	**5.527**	-	408
15-Apr	-	-	-	-	-0.02	**5.255**	-	1,898
15-May	-	-	-	-	-0.02	**5.267**	-	503
15-Jun	-	-	-	-	-0.02	**5.295**	-	1,200
JLY 15	-	-	-	-	-0.02	**5.33**	-	191
15-Aug	-	-	-	-	-0.02	**5.352**	-	355
15-Sep	-	-	-	-	-0.02	**5.359**	-	105
15-Oct	-	-	-	-	-0.02	**5.387**	-	208
15-Nov	-	-	-	-	-0.02	**5.517**	-	100
15-Dec	-	-	-	-	-0.02	**5.739**	-	2,587
16-Jan	-	-	-	-	-0.02	**5.854**	-	42
16-Feb	-	-	-	-	-0.02	**5.821**	-	33
16-Mar	-	-	-	-	-0.02	**5.736**	-	138
16-Apr	-	-	-	-	-0.027	**5.449**	-	176

Henry Hub Natural Gas Futures

Daily Settlements for Henry Hub Natural Gas Futures (FINAL)Trade Date: 09/12/2011

http://www.cmegroup.com/trading/energy/natural-gas/natural-gas_qu

Month	Open	High	Low	Last	Change	**Settle**	Estimated Volume	Prior Day Open Interest
16-May	-	-	-	-	-0.027	**5.459**	-	36
16-Jun	-	-	-	-	-0.027	**5.489**	-	168
JLY 16	-	-	-	-	-0.027	**5.525**	-	35
16-Aug	-	-	-	-	-0.027	**5.551**	-	22
16-Sep	-	-	-	-	-0.027	**5.559**	-	15
16-Oct	-	-	-	-	-0.027	**5.594**	-	31
16-Nov	-	-	-	-	-0.027	**5.729**	-	8
16-Dec	-	-	-	-	-0.027	**5.954**	-	336
17-Jan	-	-	-	-	-0.027	**6.076**	-	21
17-Feb	-	-	-	-	-0.027	**6.044**	-	4
17-Mar	-	-	-	-	-0.027	**5.962**	-	9
17-Apr	-	-	-	-	-0.027	**5.662**	-	10
17-May	-	-	-	-	-0.027	**5.667**	-	9
17-Jun	-	-	-	-	-0.027	**5.695**	-	23
JLY 17	-	-	-	-	-0.027	**5.73**	-	29
17-Aug	-	-	-	-	-0.027	**5.766**	-	22
17-Sep	-	-	-	-	-0.027	**5.776**	-	31
17-Oct	-	-	-	-	-0.027	**5.816**	-	14
17-Nov	-	-	-	-	-0.027	**5.951**	-	14
17-Dec	-	-	-	-	-0.027	**6.181**	-	25
18-Jan	-	-	-	-	-0.027	**6.306**	-	50
18-Feb	-	-	-	-	-0.027	**6.276**	-	30
18-Mar	-	-	-	-	-0.027	**6.196**	-	30
18-Apr	-	-	-	-	-0.027	**5.886**	-	50
18-May	-	-	-	-	-0.027	**5.891**	-	65
18-Jun	-	-	-	-	-0.027	**5.917**	-	45
JLY 18	-	-	-	-	-0.027	**5.952**	-	30
18-Aug	-	-	-	-	-0.027	**5.988**	-	30
18-Sep	-	-	-	-	-0.027	**5.998**	-	30
18-Oct	-	-	-	-	-0.027	**6.048**	-	47
18-Nov	-	-	-	-	-0.027	**6.183**	-	30
18-Dec	-	-	-	-	-0.027	**6.413**	-	34
19-Jan	-	-	-	-	-0.027	**6.538**	-	-
19-Feb	-	-	-	-	-0.027	**6.508**	-	-
19-Mar	-	-	-	-	-0.027	**6.428**	-	-
19-Apr	-	-	-	-	-0.027	**6.118**	-	20
19-May	-	-	-	-	-0.027	**6.123**	-	20
19-Jun	-	-	-	-	-0.027	**6.148**	-	17
JLY 19	-	-	-	-	-0.027	**6.183**	-	10
19-Aug	-	-	-	-	-0.027	**6.221**	-	11
19-Sep	-	-	-	-	-0.027	**6.231**	-	10
19-Oct	6.38	6.38	6.38	6.38	-0.027	**6.281**	1	8
19-Nov	-	-	-	-	-0.027	**6.416**	-	-
19-Dec	-	-	-	-	-0.027	**6.646**	-	-
20-Jan	-	-	-	-	-0.027	**6.771**	-	50
20-Feb	-	-	-	-	-0.027	**6.741**	-	-
20-Mar	-	-	-	-	-0.027	**6.661**	-	-
20-Apr	-	-	-	-	-0.027	**6.351**	-	-
20-May	-	-	-	-	-0.027	**6.348**	-	-
20-Jun	-	-	-	-	-0.027	**6.373**	-	-
JLY 20	-	-	-	-	-0.027	**6.413**	-	-
20-Aug	-	-	-	-	-0.027	**6.453**	-	-
20-Sep	-	-	-	-	-0.027	**6.468**	-	-
20-Oct	-	-	-	-	-0.027	**6.531**	-	-
20-Nov	-	-	-	-	-0.027	**6.666**	-	-

Henry Hub Natural Gas Futures

Daily Settlements for Henry Hub Natural Gas Futures (FINAL)Trade Date: 09/12/2011

http://www.cmegroup.com/trading/energy/natural-gas/natural-gas_qu

Month	Open	High	Low	Last	Change	**Settle**	Estimated Volume	Prior Day Open Interest
20-Dec	-	-	-	-	-0.027	**6.896**	-	246
21-Jan	-	-	-	-	-0.027	**7.021**	-	30
21-Feb	-	-	-	-	-0.027	**6.991**	-	30
21-Mar	-	-	-	-	-0.027	**6.911**	-	30
21-Apr	-	-	-	-	-0.027	**6.601**	-	30
21-May	-	-	-	-	-0.027	**6.599**	-	30
21-Jun	-	-	-	-	-0.027	**6.619**	-	30
JLY 21	-	-	-	-	-0.027	**6.664**	-	30
21-Aug	-	-	-	-	-0.027	**6.704**	-	30
21-Sep	-	-	-	-	-0.027	**6.721**	-	30
21-Oct	-	-	-	-	-0.027	**6.781**	-	30
21-Nov	-	-	-	-	-0.027	**6.917**	-	30
21-Dec	-	-	-	-	-0.027	**7.149**	-	30
22-Jan	-	-	-	-	-0.027	**7.281**	-	-
22-Feb	-	-	-	-	-0.027	**7.253**	-	-
22-Mar	-	-	-	-	-0.027	**7.175**	-	-
22-Apr	-	-	-	-	-0.027	**6.865**	-	-
22-May	-	-	-	-	-0.027	**6.85**	-	-
22-Jun	-	-	-	-	-0.027	**6.89**	-	-
JLY 22	-	-	-	-	-0.027	**6.94**	-	-
22-Aug	-	-	-	-	-0.027	**6.985**	-	-
22-Sep	-	-	-	-	-0.027	**7**	-	-
22-Oct	-	-	-	-	-0.027	**7.065**	-	-
22-Nov	-	-	-	-	-0.027	**7.201**	-	-
22-Dec	-	-	-	-	-0.027	**7.433**	-	-
23-Jan	-	-	-	-	-0.027	**7.565**	-	-
23-Feb	-	-	-	-	-0.027	**7.537**	-	-
23-Mar	-	-	-	-	-0.027	**7.459**	-	-
23-Apr	-	-	-	-	-0.027	**7.149**	-	-
23-May	-	-	-	-	-0.027	**7.134**	-	-
23-Jun	-	-	-	-	-0.027	**7.174**	-	-
JLY 23	-	-	-	-	-0.027	**7.224**	-	-
23-Aug	-	-	-	-	-0.027	**7.269**	-	-
23-Sep	-	-	-	-	-0.027	**7.284**	-	-
23-Oct	-	-	-	-	-0.027	**7.349**	-	-
23-Nov	-	-	-	-	-0.027	**7.485**	-	-
23-Dec	-	-	-	-	-0.027	**7.717**	-	-
Total							247,304	969,993

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Appendix A, Exhibit 16 - Natural Gas Prices, Base Case - ***from Bob Fagan - AEO numbers are close to what we have, could use Hi Gas HH Price (column o)***
AEO 2011 Reference Case (early release)

						Shift in Price from					
Year	Henry Hub Spot Price (2010$/MMBtu)	AEO2011 i	AEO2011 i	AEO 2010	AEO2010 i	AEO2011	AEO2010	Composite	AEO2010 l	Ratio of 20	Hi Gas Henry Hub Price (2010$/m
2011	$4.52	4.48	4.52	5.68	5.79	100%	0%	4.52	6.27	1.1034	$4.99
2012	$4.61	4.57	4.61	6.17	6.29	93%	7%	4.73	7.15	1.1584	$5.47
2013	$4.74	4.7	4.74	6.13	6.24	86%	14%	4.96	7.27	1.1862	$5.88
2014	$4.81	4.77	4.81	6.09	6.2	79%	21%	5.11	7.41	1.2175	$6.22
2015	$4.85	4.81	4.85	6.27	6.39	71%	29%	5.29	7.59	1.2104	$6.40
2016	$4.88	4.83	4.88	6.38	6.49	64%	36%	5.45	7.67	1.2028	$6.56
2017	$4.92	4.88	4.92	6.38	6.5	57%	43%	5.6	7.64	1.1966	$6.70
2018	$5.00	4.96	5	6.43	6.55	50%	50%	5.78	7.68	1.1937	$6.90
2019	$5.08	5.04	5.08	6.51	6.62	43%	57%	5.96	7.85	1.2065	$7.19
2020	$5.22	5.18	5.22	6.64	6.76	36%	64%	6.21	7.8	1.1747	$7.30
2021	$5.38	5.33	5.38	6.74	6.86	29%	71%	6.44	7.61	1.1291	$7.27
2022	$5.53	5.48	5.53	6.93	7.06	21%	79%	6.73	7.84	1.1315	$7.61
2023	$5.72	5.67	5.72	6.96	7.08	14%	86%	6.89	8.15	1.1715	$8.07
2024	$5.90	5.85	5.9	6.91	7.04	7%	93%	6.96	8.43	1.2192	$8.48
2025	$6.07	6.01	6.07	6.99	7.12	0%	100%	7.12	8.71	1.2458	$8.87
2026	$6.21	6.15	6.21	7.15	7.28	0%	100%	7.28	8.92	1.2472	$9.08
2027	$6.33	6.28	6.33	7.29	7.42	0%	100%	7.42	9.14	1.2534	$9.31
2028	$6.42	6.36	6.42	7.53	7.67	0%	100%	7.67	9.5	1.2616	$9.67
2029	$6.48	6.43	6.48	7.77	7.92	0%	100%	7.92	9.78	1.258	$9.96
2030	$6.56	6.5	6.56	8.05	8.2	0%	100%	8.2	10	1.2423	$10.18
2031	$6.68	6.62	6.68	8.39	8.54	0%	100%	8.54	9.93	1.1837	$10.11
2032	$6.82	6.76	6.82	8.5	8.65	0%	100%	8.65	10.18	1.1981	$10.37
2033	$6.94	6.88	6.94	8.53	8.69	0%	100%	8.69	10.52	1.2333	$10.71
2034	$7.07	7.01	7.07	8.75	8.91	0%	100%	8.91	10.78	1.2322	$10.98
2035	$7.25	7.19	7.25	8.88	9.04	0%	100%	9.04	10.88	1.2252	$11.08

Between 2035 and 2050, CRA proposes to increase gas	EIA Case ID	EIA Case ID
same rate of increase for the 2030-2035 period.	d120810c	d111809a

The input assumptions contained herein reflect a joint assumptions development process between EIPC, EIPC stakeholders and CRA for purposes of EIPC capacity expansion modeling.
As such, these inputs do not necessarily reflect the opinions or views of CRA or any individual EIPC stakeholder.

From AEO2011 Referı	2008	2009	2010
GDP Cha	1.086	1.096	1.106

ımBtu)

Navigant- Appendix D: Henry Hub Price Forecast Comparison Table (2009$)
Market Analysis for Sabine Pass LNG Export Project
http://www.navigant.com/~/media/Site/Insights/Energy/Cheniere_LNG_Export_Report_Energy.ashx

only using GHG as-is and GHG Plus cases since the others assume Sabine Pass is included.

	GHG As-is	GHG As-is, moderate export	GHG As-is, high export	GHG Plus	GHG Plus, high export
2011	$5.03	$5.03	$5.03	$5.03	$5.03
2012	$5.12	$5.12	$5.12	$5.23	$5.23
2013	$3.50	$3.50	$3.50	$4.62	$4.62
2014	$3.10	$3.12	$3.14	$4.49	$4.55
2015	$3.29	$3.49	$3.64	$4.50	$5.02
2016	$3.33	$3.54	$3.69	$4.51	$5.04
2017	$3.45	$3.65	$3.80	$4.58	$5.10
2018	$3.50	$3.70	$3.85	$4.65	$5.14
2019	$3.62	$3.79	$3.95	$4.79	$5.26
2020	$3.85	$3.98	$4.10	$4.99	$5.44
2021	$3.91	$4.04	$4.17	$5.27	$5.72
2022	$4.05	$4.19	$4.30	$5.58	$6.05
2023	$4.23	$4.35	$4.47	$5.90	$6.39
2024	$4.47	$4.60	$4.72	$6.27	$6.77
2025	$4.60	$4.72	$4.87	$6.59	$7.09
2026	$4.76	$4.89	$5.06	$6.90	$7.42
2027	$4.93	$5.08	$5.28	$7.24	$7.81
2028	$5.09	$5.28	$5.49	$7.56	$8.16
2029	$5.33	$5.52	$5.73	$8.02	$8.69
2030	$5.55	$5.74	$5.94	$8.50	$9.24
2031	$5.81	$5.99	$6.21	$9.02	$9.83
2032	$6.04	$6.26	$6.49	$9.54	$10.39
2033	$6.38	$6.60	$6.83	$10.18	$11.01
2034	$6.65	$6.88	$7.12	$10.86	$11.67
2035	$6.97	$7.20	$7.46	$11.43	$12.33

Graphical representation from EIPC Fuel and Emission Prices Subteam (page 4)
http://www.eipconline.com/uploads/Fuel_and_Emissions_Subteam_January_12_Report_updated_Jan_27.pdf

EIPC Prop Source 2011		RGGI		EPA	
2011	4.44	2011	4.87		
2012	5.27	2012	5.33	2012	4.20
2013	5.75	2013	5.38	2013	4.53
2014	6.19	2014	5.50	2014	4.77
2015	6.70	2015	5.62	2015	5.01
2016	6.67	2016	5.75	2016	4.84
2017	6.27	2017	5.87	2017	4.70
2018	6.38	2018	5.95	2018	4.61
2019	6.47	2019	5.98	2019	4.56
2020	6.58	2020	6.13	2020	4.39
2021	6.58	2021	6.35	2021	4.59
2022	6.78	2022	6.49	2022	4.74
2023	7.04	2023	6.55	2023	4.85
2024	7.29	2024	6.75	2024	4.91
2025	7.17	2025	6.94	2025	5.10
2026	6.81	2026	7.23	2026	5.22
2027	6.33	2027	7.49	2027	5.41
2028	6.40	2028	7.72	2028	5.59
2029	6.49	2029	7.92	2029	5.72
2030	6.78	2030	8.09	2030	5.82

Strategist Model Input Data (2010$) in $/MCF - Highest Monthly Price per Year

	Strategist	Strategist
	KU/LGE NG Price (High) ($/MCF) - COMPANY ORIGINAL	KU/LGE NG Delivered Price (High) ($/MMBtu)
2010	[redacted]	
2011		
2012		
2013		
2014		
2015		
2016		
2017		
2018		
2019		
2020		
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2023		
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	Seasonal Adjustment Factor (from Avg to High Price)
2010	0.898
2011	0.883
2012	0.907
2013	0.912
2014	0.913
2015	0.915
2016	0.903
2017	0.904
2018	0.905
2019	0.905
2020	0.906
2021	0.907
2022	0.908
2023	0.908
2024	0.909
2025	0.910
	0.910
	0.910
	0.910
	0.910
	0.910
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	0.910
	0.910

	KU/LGE NG Delivered Price (Annual Average) ($/MMBtu)
2010	[redacted]
2011	
2012	
2013	
2014	
2015	
2016	
2017	
2018	
2019	
2020	
2021	
2022	
2023	
2024	
2025	

Sensitivity Input (p4)

	KU/LGE HH Price ($/MMBtu)
2011	[redacted]
2012	
2013	
2014	
2015	
2016	
2017	
2018	
2019	
2020	
2021	
2022	
2023	
2024	
2025	

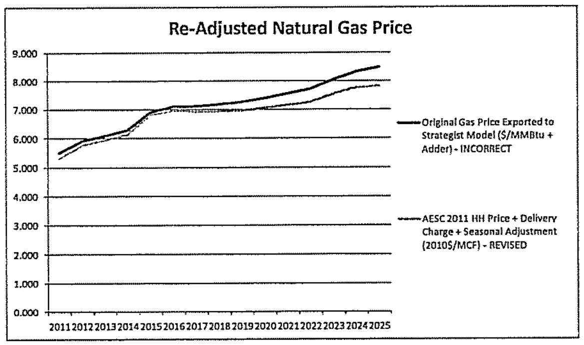
	Delivery Price Adder ($/MMBTu)
2011	0.357
2012	0.358
2013	0.356
2014	0.356
2015	0.365
2016	0.367
2017	0.369
2018	0.366
2019	0.368
2020	0.375
2021	0.373
2022	0.377
2023	0.381
2024	0.386
2025	0.395
	0.395
	0.395
	0.395
	0.395
	0.395
	0.395
	0.395
	0.395
	0.395
	0.395
	0.395
	0.395
	0.395
	0.395
	0.395
	0.395

BLS Deflator

AESC 2011 0.9652

	AESC 2011 (2011$/MMBtu)	AESC 2011 HH Price (2010$/MMBtu)	AESC 2011 HH Price + Delivery Charge (2010$/MMBtu)	AESC 2011 HH Price + Delivery Charge + Seasonal Adjustment (2010$/MMBtu)	*Price to be used in model* AESC 2011 HH Price + Delivery Charge + Seasonal Adjustment (2010$/MCF) - REVISED
2011	4.370	4.218	4.575	5.182	5.322
2012	4.910	4.739	5.097	5.620	5.772
2013	5.100	4.923	5.278	5.790	5.946
2014	5.290	5.106	5.462	5.982	6.143
2015	5.910	5.704	6.069	6.633	6.812
2016	5.960	5.753	6.120	6.777	6.960
2017	5.930	5.724	6.093	6.740	6.922
2018	5.950	5.743	6.109	6.752	6.934
2019	5.980	5.772	6.140	6.780	6.963
2020	6.060	5.849	6.224	6.868	7.054
2021	6.160	5.946	6.319	6.968	7.156
2022	6.250	6.033	6.410	7.062	7.253
2023	6.520	6.293	6.675	7.348	7.547
2024	6.720	6.486	6.872	7.561	7.765
2025	6.780	6.544	6.939	7.629	7.835
2026	6.890	6.650	7.045	7.746	7.955
2027	7.040	6.795	7.190	7.905	8.119
2028	7.200	6.949	7.345	8.075	8.293
2029	7.410	7.152	7.547	8.298	8.522
2030	7.330	7.075	7.470	8.213	8.435
2031	7.340	7.085	7.480	8.223	8.445
2032	7.490	7.229	7.625	8.383	8.609
2033	7.630	7.364	7.760	8.531	8.762
2034	7.660	7.393	7.789	8.563	8.794
2035	7.830	7.558	7.953	8.743	8.980
2036	7.960	7.683	8.078	8.881	9.121
2037	8.100	7.818	8.213	9.030	9.274
2038	8.240	7.953	8.348	9.179	9.426
2039	8.370	8.079	8.474	9.316	9.568
2040	8.520	8.224	8.619	9.476	9.731
2041	8.660	8.359	8.754	9.624	9.884

	Original Gas Price Exported to Strategist Model ($/MMBtu + Adder) - INCORRECT	Error, relative to corrected price
2011	5.517	3.7%
2012	5.916	2.5%
2013	6.093	2.5%
2014	6.295	2.5%
2015	6.918	1.6%
2016	7.109	2.1%
2017	7.129	3.0%
2018	7.193	3.7%
2019	7.274	4.5%
2020	7.411	5.1%
2021	7.566	5.7%
2022	7.728	6.5%
2023	8.062	6.8%
2024	8.334	7.3%
2025	8.487	8.3%
2026	8.593	8.0%
2027	8.738	7.6%
2028	8.892	7.2%
2029	9.095	6.7%
2030	9.018	6.9%
2031	9.027	6.9%
2032	9.172	6.5%
2033	9.307	6.2%
2034	9.338	6.2%
2035	9.500	5.8%
2036	9.626	5.5%
2037	9.761	5.3%
2038	9.896	5.0%
2039	10.021	4.7%
2040	10.166	4.5%
2041	10.301	4.2%



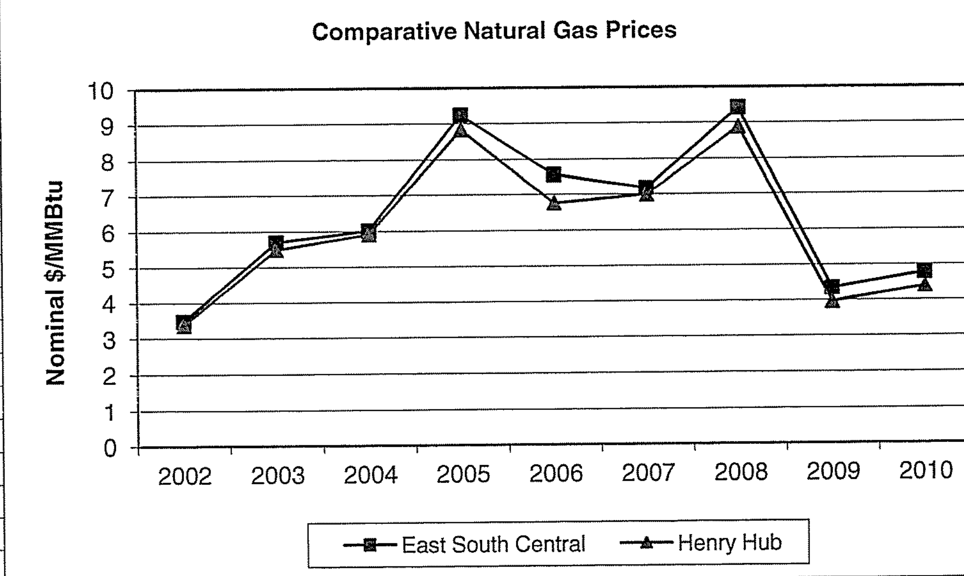
Seasonal Gas Profile Adjustment - Strategist

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
January	1	0.917993	0.987013	0.995007	0.993115	0.991225	0.965704	0.965588	0.965479	0.96538	0.96528	0.965187	0.965081	0.964985	0.964909	0.964811
February	0.995747	0.913522	0.978893	0.987159	0.986229	0.985251	0.958835	0.958694	0.958564	0.958447	0.958334	0.958217	0.958096	0.957983	0.95788	0.957769
March	0.97451	0.897797	0.954103	0.960056	0.959367	0.958683	0.936117	0.935907	0.935701	0.935513	0.935326	0.935149	0.934958	0.934792	0.93463	0.934462
April	0.854195	0.823258	0.841316	0.84814	0.851251	0.854992	0.842403	0.84389	0.845277	0.84658	0.847782	0.849023	0.850319	0.851498	0.852598	0.853701
May	0.841637	0.826492	0.842058	0.846002	0.847135	0.850354	0.843049	0.84455	0.845936	0.847236	0.848446	0.849689	0.850981	0.852165	0.853259	0.854374
June	0.846813	0.834794	0.84751	0.851988	0.8547	0.85805	0.849735	0.851247	0.852654	0.853971	0.855204	0.856471	0.857781	0.858984	0.860099	0.861224
July	0.853948	0.844184	0.856501	0.860816	0.863636	0.867338	0.85891	0.860454	0.861896	0.863238	0.864498	0.865787	0.867125	0.868352	0.869487	0.870638
August	0.858985	0.85189	0.863865	0.868223	0.871201	0.875689	0.866487	0.868054	0.869524	0.87089	0.872167	0.873479	0.874834	0.876088	0.87724	0.878412
September	0.860664	0.856496	0.868289	0.872774	0.876009	0.88007	0.871074	0.872658	0.874134	0.875519	0.876805	0.878132	0.879506	0.880767	0.881934	0.883112
October	0.867379	0.870968	0.882275	0.886595	0.890446	0.893598	0.885337	0.886966	0.888491	0.889915	0.891242	0.892607	0.894025	0.895331	0.896527	0.897743
November	0.896955	0.955911	0.961624	0.962911	0.964188	0.965184	0.95964	0.959504	0.959366	0.95925	0.959136	0.959024	0.958899	0.958799	0.958697	0.958589
December	0.928516	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Average	0.898279	0.882775	0.906954	0.911639	0.913106	0.915036	0.903108	0.903959	0.904752	0.905495	0.906185	0.906897	0.907634	0.908312	0.908938	0.90957

2010	0.898279
2011	0.882775
2012	0.906954
2013	0.911639
2014	0.913106
2015	0.915036
2016	0.903108
2017	0.903959
2018	0.904752
2019	0.905495
2020	0.906185
2021	0.906897
2022	0.907634
2023	0.908312
2024	0.908938
2025	0.90957

Historic prices paid for elec gen
NG Use&Price_2011-05.xls
Nominal $/million Btu

East South Central	
Year	Total
2002	3.49
2003	5.72
2004	6.03
2005	9.26
2006	7.58
2007	7.20
2008	9.43
2009	4.36
2010	4.80



EIA Electric Power Monthly

Table 4.13.A. Average Cost of Natural Gas Delivered for Electricity Generation by State

(Dollars per Million Btu)

[1] The electric power sector includes electricity-only plants and combined-heat-and-power (CHP) plants whose primary business is to sell electricity.
[2] Data shown for electric utilities are collected by the Federal Energy Regulatory Commission on the FERC Form 423.
W = Withheld to avoid disclosure of individual company data.
Notes: • See Glossary for definitions. • Data for 2003 and 2004 are preliminary. • Totals may not equal sum of components because of independent
Sources: Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report;" and Federal Energy Re

EIA STEO Historic and forecast prices
HH & NE Elec Gen Comparison 2011-04-14ab.xls
Nominal $/1000CF

Henry Hub Spot Price	
Year	Total
1998	2.15
1999	2.34
2000	4.44
2001	4.08
2002	3.47
2003	5.65
2004	6.08
2005	9.08
2006	6.95
2007	7.19
2008	9.13
2009	4.06
2010	4.52
2011	4.22
2012	4.72

1.026 kBtu/cf

NG Prices
Nominal $/MMBtu

Year	ESC Price	HH Price	Differential
2002	3.49	3.38	0.11
2003	5.72	5.51	0.21
2004	6.03	5.92	0.11
2005	9.26	8.85	0.41
2006	7.58	6.77	0.81
2007	7.20	7.00	0.19
2008	9.43	8.90	0.53
2009	4.36	3.96	0.39
2010	4.80	4.40	0.40
			0.35

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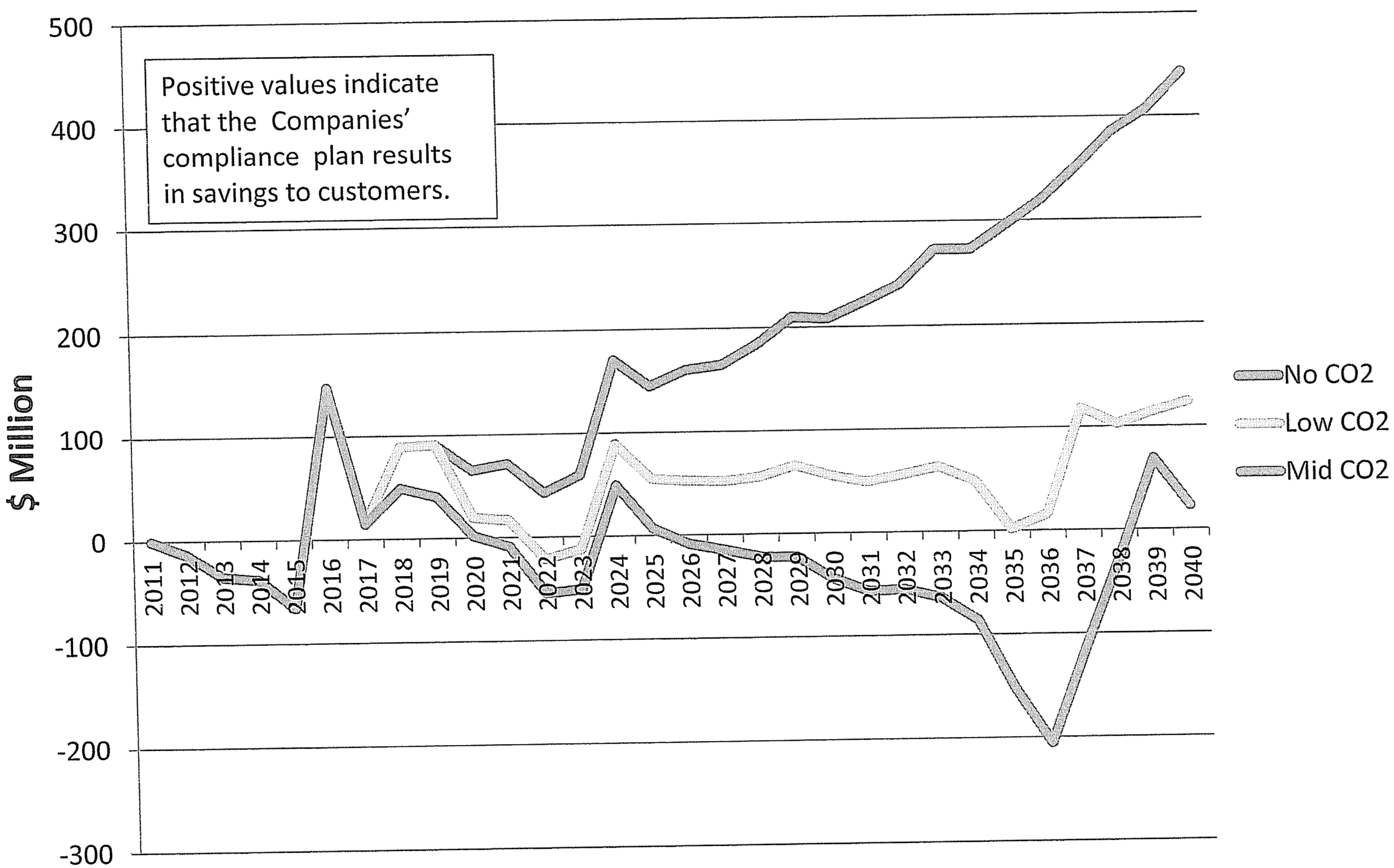
Coal Units in Portfolio

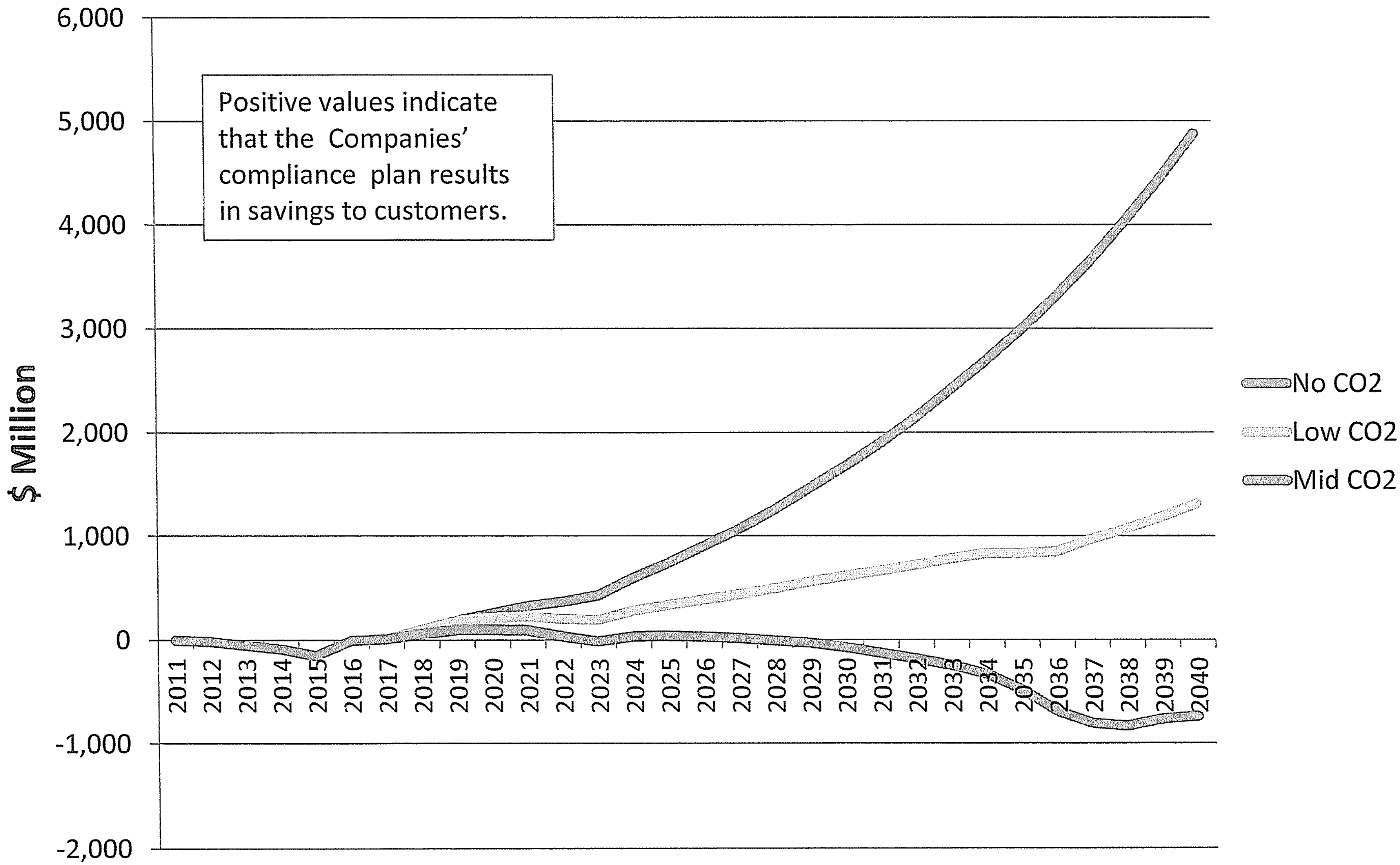
Trimble County 2	Trimble County 1	Mill Creek 3	Mill Creek 4	Ghent 1	Ghent 2	Ghent 3	Ghent 4	Brown 3	Mill Creek 1-2	Brown 1-2	Green River 4	Cane Run 5	Cane Run 6	Cane Run 4	Green River 3	Tyrone 3	Portfolio PVRR 2011 to 2040 ($Million)
X	X	X	X	X	X	X	X	X	X	X							32,671
X	X	X	X	X	X	X	X	X	X	X	X						32,737
X	X	X	X	X	X	X	X	X	X	X	X	X					32,811
X	X	X	X	X	X	X	X	X	X	X	X	X	X				32,819
X	X	X	X	X	X	X	X	X	X								32,909
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			32,968
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		32,997
X	X	X	X	X	X	X	X	X	X		X	X					33,044
X	X		X	X	X	X	X	X	X	X							33,345
X	X	X		X	X	X	X	X	X	X							33,401
X	X	X	X		X	X	X	X	X	X	X						33,479
X	X	X	X	X	X	X	X		X	X	X	X	X	X			33,491
X	X	X	X	X	X	X	X	X		X							33,546
X	X	X	X	X	X		X	X	X	X	X						33,575
X		X	X	X	X	X	X	X	X	X							33,581
X	X	X	X	X		X	X	X	X	X							33,686
X	X	X	X	X	X	X		X	X	X							33,697
X	X	X	X	X	X	X	X	X									33,969

Note: The values above reflect the correction of the landfill cost error identified by Dr. Fisher and the error identified by the Companies' in response to Supplemental Requests for Information of Rick Clewett, Raymond Barry, Sierra Club and the Natural Resource Defense Council dated August 18, 2011, Question No. 8(b).

Annual Nominal Savings/(Costs) from the Companies' Compliance Plan vs. Retiring and Replacing Brown Units 1 & 2 and Mill Creek Units 1 & 2



Cumulative Nominal Savings/(Costs) from the Companies' Compliance Plan vs. Retiring and Replacing Brown Units 1 & 2 and Mill Creek Units 1 & 2



6.71% Discount Rate

*All cases use AESC Gas Prices in Nominal $

Total Revenue Requirement

Retire:	CO2 Prices:	2011 $M NPVRR	Nominal $000 2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
TY3, GR3-4, CR4-6, BR1-2, and MC1-2	Mid	50,484	1,134,439	1,246,459	1,350,869	1,578,175	1,807,265	2,280,920	2,205,219	2,963,400	3,163,622	3,340,792	3,571,419	3,837,994	4,133,818	4,453,180	4,678,360	4,957,520	5,219,326
TY3, GR3-4, CR4-6, BR1-2, and MC1-2	Low	43,968	1,134,439	1,246,459	1,350,869	1,578,175	1,807,265	2,280,920	2,205,219	2,351,139	2,422,435	3,099,749	3,269,574	3,475,899	3,692,473	3,919,894	4,078,177	4,292,274	4,456,623
TY3, GR3-4, CR4-6, BR1-2, and MC1-2	None	33,969	1,134,439	1,246,459	1,350,869	1,578,175	1,807,265	2,280,920	2,205,219	2,351,139	2,422,435	2,449,694	2,539,510	2,657,044	2,774,318	2,901,471	2,954,294	3,082,731	3,109,568
TY3, GR3-4, and CR4-6	Mid	50,653	1,134,929	1,260,172	1,386,194	1,616,218	1,873,177	2,133,478	2,190,667	2,914,449	3,123,404	3,338,856	3,580,099	3,892,485	4,184,944	4,404,369	4,671,150	4,966,034	5,234,142
TY3, GR3-4, and CR4-6	Low	43,577	1,134,929	1,260,172	1,386,194	1,616,218	1,873,177	2,133,478	2,190,667	2,262,259	2,332,127	3,080,113	3,252,934	3,497,272	3,704,789	3,830,871	4,023,538	4,239,413	4,405,020
TY3, GR3-4, and CR4-6	None	32,671	1,134,929	1,260,172	1,386,194	1,616,218	1,873,177	2,133,478	2,190,667	2,262,259	2,332,127	2,384,486	2,468,271	2,614,237	2,714,927	2,730,865	2,809,370	2,922,567	2,945,152
No CO2																			
Delta		1,298	-489	-13,712	-35,325	-38,043	-65,912	147,442	14,552	88,880	90,308	65,207	71,239	42,807	59,391	170,606	144,924	160,163	164,416
Cumulative Delta			-489	-14,202	-49,527	-87,570	-153,482	-6,040	8,512	97,392	187,699	252,907	324,145	366,952	426,344	596,949	741,873	902,036	1,066,453
Low CO2																			
Delta		391	-489	-13,712	-35,325	-38,043	-65,912	147,442	14,552	88,880	90,308	19,635	16,640	-21,373	-12,316	89,023	54,639	52,860	51,603
Cumulative Delta			-489	-14,202	-49,527	-87,570	-153,482	-6,040	8,512	97,392	187,699	207,335	223,974	202,601	190,286	279,308	333,947	386,807	438,411
Mid CO2																			
Delta		-168	-489	-13,712	-35,325	-38,043	-65,912	147,442	14,552	48,951	40,218	1,935	-8,680	-54,491	-51,126	48,811	7,210	-8,515	-14,816
Cumulative Delta			-489	-14,202	-49,527	-87,570	-153,482	-6,040	8,512	57,463	97,680	99,616	90,935	36,444	-14,681	34,129	41,339	32,824	18,009

Annual Nominal RR Delta $M	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
No CO2	0	-14	-35	-38	-66	147	15	89	90	65	71	43	59	171	145	160	164
Low CO2	0	-14	-35	-38	-66	147	15	89	90	20	17	-21	-12	89	55	53	52
Mid CO2	0	-14	-35	-38	-66	147	15	49	40	2	-9	-54	-51	49	7	-9	-15

Cumulative Nominal RR Delta $M	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
No CO2	0	-14	-50	-88	-153	-6	9	97	188	253	324	367	426	597	742	902	1,066
Low CO2	0	-14	-50	-88	-153	-6	9	97	188	207	224	203	190	279	334	387	438
Mid CO2	0	-14	-50	-88	-153	-6	9	57	98	100	91	36	-15	34	41	33	18

Annual PVRR Delta ($M)	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
No CO2	0	-13	-44	-76	-127	-20	-10	46	100	136	174	195	222	295	354	414	472
Low CO2	0	-13	-44	-76	-127	-20	-10	46	100	111	120	109	104	142	164	184	202
Mid CO2	0	-13	-44	-76	-127	-20	-10	21	45	46	41	15	-9	12	15	12	7

PVRR Delta Through Future Years (2011 $M)	2020	2025	2030	2040
No CO2	136	354	659	1,298
Low CO2	111	164	257	391
Mid CO2	46	15	(20)	(168)

10/18/2011

*All cases use AESC Gas Prices in Nominal $

Retire:	CO2 Prices:	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
TY3, GR3-4, CR4-6, BR1-2, and MC1-2	Mid	5,540,247	5,931,802	6,318,024	6,553,813	6,912,165	7,268,736	7,629,519	8,029,890	8,483,252	8,964,729	9,421,030	9,960,453	10,411,501
TY3, GR3-4, CR4-6, BR1-2, and MC1-2	Low	4,690,960	4,979,073	5,292,612	5,459,512	5,720,075	5,993,147	6,243,633	6,540,172	6,919,752	7,308,428	7,552,617	7,851,573	8,221,707
TY3, GR3-4, CR4-6, BR1-2, and MC1-2	None	3,236,136	3,373,057	3,548,890	3,580,534	3,686,751	3,866,270	4,004,093	4,236,783	4,323,206	4,451,067	4,562,293	4,630,798	4,858,353
TY3, GR3-4, and CR4-6	Mid	5,562,097	5,954,452	6,361,996	6,610,873	6,967,455	7,332,576	7,715,335	8,182,152	8,689,034	9,078,951	9,447,248	9,891,884	10,388,767
TY3, GR3-4, and CR4-6	Low	4,635,656	4,913,023	5,237,017	5,410,329	5,664,292	5,930,291	6,194,946	6,538,549	6,903,940	7,189,946	7,450,044	7,737,275	8,097,868
TY3, GR3-4, and CR4-6	None	3,052,144	3,163,051	3,340,597	3,356,973	3,447,108	3,593,776	3,731,447	3,941,216	4,003,661	4,100,553	4,177,302	4,223,906	4,415,154
No CO2														
Delta		183,991	210,006	208,293	223,561	239,643	272,494	272,645	295,566	319,545	350,514	384,990	406,892	443,199
Cumulative Delta		1,250,444	1,460,449	1,668,743	1,892,304	2,131,947	2,404,441	2,677,086	2,972,653	3,292,198	3,642,712	4,027,702	4,434,595	4,877,794
Low CO2														
Delta		55,303	66,050	55,595	49,183	55,783	62,856	48,686	1,622	15,812	118,482	102,572	114,298	123,839
Cumulative Delta		493,714	559,763	615,359	664,542	720,325	783,181	831,867	833,490	849,302	967,784	1,070,356	1,184,655	1,308,494
Mid CO2														
Delta		-21,851	-22,650	-43,972	-57,060	-55,290	-63,840	-85,817	-152,263	-205,782	-114,222	-26,219	68,569	22,734
Cumulative Delta		-3,842	-26,493	-70,464	-127,524	-182,814	-246,654	-332,471	-484,733	-690,515	-804,737	-830,956	-762,386	-739,652

Annual Nominal RR Delta $M	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
No CO2	184	210	208	224	240	272	273	296	320	351	385	407	443
Low CO2	55	66	56	49	56	63	49	2	16	118	103	114	124
Mid CO2	-22	-23	-44	-57	-55	-64	-86	-152	-206	-114	-26	69	23

Cumulative Nominal RR Delta $M	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
No CO2	1,250	1,460	1,669	1,892	2,132	2,404	2,677	2,973	3,292	3,643	4,028	4,435	4,878
Low CO2	494	560	615	665	720	783	832	833	849	968	1,070	1,185	1,308
Mid CO2	-4	-26	-70	-128	-183	-247	-332	-485	-691	-805	-831	-762	-740

Annual PVRR Delta ($M)	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
No CO2	533	598	659	720	781	847	908	970	1,033	1,098	1,164	1,230	1,298
Low CO2	220	241	257	271	285	300	311	311	314	336	354	372	391
Mid CO2	0	-8	-20	-36	-50	-65	-85	-117	-157	-178	-183	-172	-168

PVRR Delta Through Future Years (2011 $M)
No CO2
Low CO2
Mid CO2

	Retire TY3, GR3-4, CR4-6, BR1-2, and MC1-2			Retire TY3, GR3-4, and CR4-6		
	No CO2	Low CO2	Mid CO2	No CO2	Low CO2	Mid CO2
2011						
2012						
2013						
2014						
2015						
2016	3x1C(2)	3x1C(2)	3x1C(2)	3x1C(1)	3x1C(1)	3x1C(1)
2017						
2018				3x1C(1)	3x1C(1)	3x1C(1)
2019	3x1C(1)	3x1C(1)	3x1C(1)			
2020						
2021						
2022						
2023						
2024				3x1C(1)	3x1C(1)	3x1C(1)
2025	3x1C(1)	3x1C(1)	3x1C(1)			
2026						
2027						
2028						
2029						
2030						
2031	2x1C(1)	3x1C(1)	3x1C(1)	2x1C(1)	3x1C(1)	3x1C(1)
2032						
2033						
2034						
2035						
2036	3x1C(1)			3x1C(1)		
2037					3x1C(1)	3x1C(1)
2038		3x1C(1)	SCCT(1)			
2039						
2040			3x1C(1)			

3x1C = 3x1 Combined Cycle Combustion Turbine
2x1C = 2x1 Combined Cycle Combustion Turbine
SCCT = Simple Cycle Combustion Turbine

CO2 Emissions Allowance Price Forecast
Synapse Energy - 2011 CO2 Price Forecast (2/11/2011)
Mid Case

2% Inflation Rate

	2010 $ $/short ton	Nominal $
2011-2017	-	
2018	15.00	17.57
2019	17.92	21.42
2020	20.83	25.39
2021	23.75	29.53
2022	26.67	33.82
2023	29.58	38.26
2024	32.50	42.88
2025	35.42	47.67
2026	38.33	52.62
2027	41.25	57.76
2028	44.17	63.09
2029	47.08	68.59
2030	50.00	74.30
2031	52.92	80.21
2032	55.84	86.33
2033	58.76	92.66
2034	61.68	99.21
2035	64.60	105.98
2036	67.52	112.99
2037	70.44	120.23
2038	73.36	127.72
2039	76.28	135.46
2040	79.20	143.46

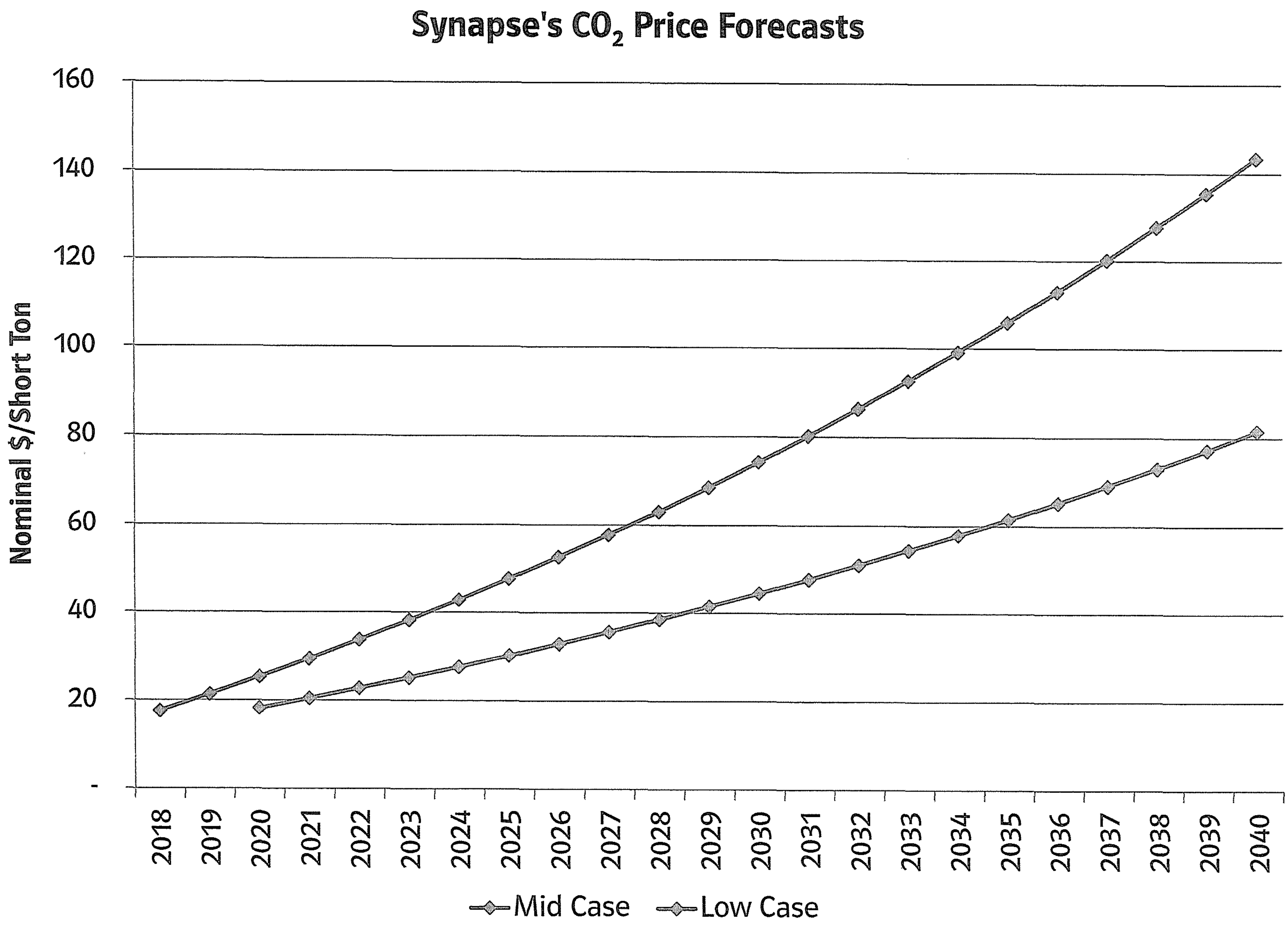
CO2 Emissions Allowance Price Forecast
Synapse Energy - 2011 CO2 Price Forecast (2/11/2011)
Low Case

2% Inflation Rate

	2010 $ $/short ton	Nominal $
2011-2017	-	
2018		
2019		
2020	15.00	18.28
2021	16.50	20.52
2022	18.00	22.83
2023	19.50	25.23
2024	21.00	27.71
2025	22.50	30.28
2026	24.00	32.95
2027	25.50	35.71
2028	27.00	38.56
2029	28.50	41.52
2030	30.00	44.58
2031	31.50	47.74
2032	33.00	51.02
2033	34.50	54.40
2034	36.00	57.90
2035	37.50	61.52
2036	39.00	65.26
2037	40.50	69.13
2038	42.00	73.12
2039	43.50	77.25
2040	45.00	81.51

For Extrapolation:

2020	15.00
2030	30.00



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	No Retirements	Retire: 1 TY	2 TY GR3	3 TY GR3 BR3	4 TY GR3 CR4	5 TY GR3 CR4 CR6	6 TY GR3 CR4 CR6 BR1-2	7 TY GR3 CR	8 TY GR3 CR GH3	9 TY GR3 CR GH1	10 TY GR CR	11 TY GR CR MC4	12 TY GR CR TC1	13 TY GR CR GH4	14 TY GR CR MC3	15 TY GR CR GH2	16 TY GR CR MC1-2	17 TY GR CR BR1-2 MC1-2	18 TY GR CR BR1-2
2010																			
2011																			
2012																			
2013																			
2014																			
2015																			
2016		3x1C(1)	3x1C(1)	3x1C(1)	3x1C(1)	3x1C(1)	3x1C(1)	3x1C(1)	3x1C(2)	3x1C(2)	3x1C(1)	3x1C(2)	3x1C(2)	3x1C(2)	3x1C(2)	3x1C(2)	3x1C(2)	3x1C(2)	3x1C(2)
2017	3x1C(1)																		
2018							3x1C(1)				3x1C(1)								
2019								3x1C(1)										3x1C(1)	
2020				3x1C(1)		3x1C(1)											3x1C(1)		
2021												3x1C(1)		3x1C(1)		3x1C(1)			
2022					3x1C(1)				3x1C(1)	3x1C(1)			3x1C(1)		3x1C(1)				
2023			3x1C(1)																3x1C(1)
2024	3x1C(1)	3x1C(1)					3x1C(1)				3x1C(1)								
2025								2x1C(1)										3x1C(1)	
2026				3x1C(1)		3x1C(1)											3x1C(1)		
2027																			
2028					3x1C(1)					3x1C(1)		3x1C(1)	3x1C(1)	3x1C(1)	3x1C(1)	3x1C(1)			
2029			3x1C(1)						3x1C(1)										3x1C(1)
2030	2x1C(1)	3x1C(1)						3x1C(1)											
2031							2x1C(1)				2x1C(1)							2x1C(1)	
2032																			
2033				3x1C(1)		3x1C(1)													
2034														3x1C(1)		3x1C(1)	3x1C(1)		
2035	3x1C(1)				3x1C(1)				3x1C(1)	3x1C(1)		3x1C(1)	3x1C(1)		3x1C(1)				
2036		2x1C(1)	3x1C(1)				3x1C(1)	2x1C(1)			3x1C(1)							3x1C(1)	3x1C(1)
2037																			
2038																			
2039																			
2040				SCCT(1)		SCCT(1)											SCCT(1)		

AESC Gas Prices (Nominal $)

Discount Rate: 6.71%

	$M NPVRR	$000 2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
New Unit Capital and Production Cost																								
No Retirements	23,798	913,464	993,415	1,046,587	1,139,294	1,267,451	1,420,359	1,440,881	1,510,245	1,594,471	1,647,902	1,737,346	1,887,501	1,982,870	1,995,725	2,049,065	2,155,713	2,164,012	2,292,177	2,385,103	2,477,221	2,506,031	2,571,391	2,744,793
Retire TY	23,881	913,464	993,415	1,051,778	1,172,334	1,302,885	1,417,356	1,434,190	1,504,372	1,590,513	1,646,063	1,739,721	1,892,802	1,993,459	1,997,688	2,047,266	2,159,046	2,168,729	2,314,099	2,424,611	2,517,978	2,541,837	2,595,281	2,709,543
Retire TY and GR3	24,004	913,464	993,415	1,051,778	1,169,483	1,300,358	1,418,810	1,436,014	1,506,818	1,594,933	1,658,240	1,793,333	1,951,697	1,980,175	1,980,898	2,043,297	2,168,558	2,221,293	2,373,460	2,415,138	2,495,207	2,531,403	2,587,460	2,707,499
Retire TY GR3 and BR3	24,922	913,464	993,415	1,051,778	1,169,483	1,296,124	1,446,986	1,480,546	1,597,997	1,751,836	1,796,425	1,869,035	1,964,573	2,007,843	2,083,335	2,220,115	2,322,347	2,328,282	2,411,895	2,463,097	2,567,440	2,680,287	2,816,422	2,920,346
Retire TY GR3 and CR4	24,387	913,464	993,415	1,051,778	1,169,148	1,299,973	1,430,514	1,449,367	1,522,326	1,625,395	1,729,198	1,882,300	1,965,740	1,985,247	1,999,401	2,073,661	2,264,816	2,317,548	2,403,278	2,440,001	2,520,411	2,561,984	2,629,892	2,816,788
Retire TY GR3 CR4 and CR6	25,048	913,464	993,415	1,051,778	1,170,733	1,302,220	1,458,509	1,488,230	1,610,145	1,768,143	1,809,652	1,878,583	1,977,221	2,018,288	2,090,912	2,232,512	2,371,713	2,342,086	2,426,072	2,479,726	2,577,095	2,680,080	2,824,853	2,942,545
Retire TY GR3 CR4 CR6 and BR1-2	25,727	913,464	993,415	1,051,778	1,167,294	1,302,176	1,543,836	1,621,288	1,691,478	1,764,425	1,815,883	1,902,629	2,056,883	2,153,572	2,172,690	2,241,276	2,353,629	2,366,575	2,468,686	2,575,993	2,729,655	2,745,806	2,820,775	2,967,117
Retire TY GR3 and CR	25,539	913,464	993,415	1,051,778	1,170,499	1,301,958	1,493,450	1,561,858	1,694,616	1,786,857	1,821,459	1,896,383	2,002,602	2,084,004	2,157,871	2,219,886	2,334,231	2,357,227	2,509,727	2,628,768	2,722,308	2,746,054	2,817,856	2,949,543
Retire TY GR3 CR and GH3	26,923	913,464	993,415	1,056,968	1,212,037	1,379,690	1,647,776	1,641,769	1,723,527	1,824,589	1,934,767	2,088,071	2,167,855	2,202,448	2,225,635	2,316,914	2,468,415	2,543,866	2,720,273	2,749,659	2,834,331	2,869,045	2,981,345	3,187,529
Retire TY GR3 CR and GH1	26,881	913,463	993,415	1,050,944	1,201,446	1,363,290	1,638,575	1,646,212	1,718,068	1,825,555	1,933,616	2,076,913	2,164,976	2,199,903	2,232,735	2,320,614	2,517,711	2,588,276	2,658,507	2,742,223	2,820,692	2,877,584	2,964,954	3,186,672
Retire TY GR and CR	25,713	913,464	993,415	1,051,778	1,165,191	1,301,146	1,545,568	1,620,225	1,694,133	1,765,367	1,818,217	1,903,754	2,052,404	2,154,020	2,169,940	2,243,204	2,350,197	2,365,832	2,468,593	2,566,354	2,730,564	2,741,672	2,820,280	2,960,692
Retire TY GR CR and MC4	27,186	913,464	993,415	1,056,968	1,204,690	1,359,022	1,667,456	1,665,874	1,746,967	1,894,850	2,009,140	2,084,846	2,163,952	2,219,278	2,247,854	2,351,930	2,535,927	2,631,805	2,699,334	2,770,212	2,831,364	2,911,151	2,999,798	3,229,755
Retire TY GR CR and TC1	27,024	913,464	993,415	1,056,968	1,206,729	1,374,902	1,659,731	1,649,845	1,734,343	1,835,765	1,949,311	2,102,922	2,178,245	2,209,613	2,244,896	2,324,237	2,532,112	2,600,331	2,698,039	2,742,815	2,840,616	2,877,257	2,985,899	3,173,901
Retire TY GR CR and GH4	27,271	913,464	993,415	1,056,969	1,206,729	1,375,776	1,676,855	1,666,862	1,750,324	1,898,985	2,013,519	2,087,286	2,167,269	2,220,205	2,252,348	2,353,556	2,557,593	2,640,955	2,714,342	2,752,797	2,861,934	2,915,765	3,072,793	3,288,033
Retire TY GR CR and MC3	26,920	913,464	993,415	1,054,693	1,203,149	1,369,285	1,647,635	1,647,868	1,725,350	1,819,388	1,939,133	2,090,879	2,169,573	2,201,190	2,236,347	2,324,613	2,518,848	2,583,088	2,687,630	2,736,814	2,829,795	2,870,325	2,974,377	3,175,630
Retire TY GR CR and GH2	27,271	913,464	993,289	1,055,474	1,203,554	1,361,496	1,673,430	1,671,048	1,756,614	1,889,694	2,019,178	2,088,860	2,178,962	2,222,186	2,260,810	2,353,309	2,540,351	2,642,233	2,717,548	2,774,791	2,858,450	2,926,944	3,068,763	3,271,438
Retire TY GR CR and MC1-2	27,749	913,464	993,415	1,056,968	1,206,729	1,361,976	1,726,733	1,703,132	1,829,604	1,984,570	2,020,920	2,099,309	2,198,855	2,258,564	2,350,499	2,501,452	2,639,537	2,622,959	2,726,719	2,796,143	2,895,689	2,964,792	3,122,857	3,357,976
Retire TY GR CR BR1-2 and MC1-2	28,617	913,464	993,415	1,056,968	1,203,505	1,356,657	1,859,964	1,805,862	1,950,693	2,020,043	2,044,925	2,133,181	2,250,050	2,365,548	2,489,397	2,534,833	2,655,537	2,675,051	2,797,080	2,920,578	3,082,823	3,108,635	3,201,287	3,374,363
Retire TY GR CR and BR1-2	26,397	913,464	993,415	1,056,968	1,203,505	1,370,742	1,610,722	1,618,384	1,690,872	1,782,228	1,849,865	1,989,769	2,156,806	2,179,651	2,195,021	2,272,461	2,409,967	2,480,374	2,648,729	2,689,813	2,778,983	2,823,715	2,904,921	3,057,848
Production Cost																								
No Retirements	21,858	913,464	993,415	1,046,587	1,133,974	1,224,875	1,337,871	1,319,204	1,393,831	1,482,952	1,540,948	1,628,334	1,738,202	1,790,000	1,772,183	1,822,022	1,938,424	1,950,727	2,050,414	2,111,866	2,183,273	2,214,363	2,283,778	2,409,946
Retire TY	21,880	913,464	993,415	1,046,587	1,130,796	1,222,409	1,298,646	1,320,615	1,395,573	1,486,168	1,545,880	1,637,115	1,749,687	1,806,678	1,780,141	1,826,124	1,947,564	1,959,173	2,062,086	2,126,156	2,187,888	2,210,506	2,276,966	2,397,574
Retire TY and GR3	21,882	913,464	993,415	1,046,587	1,127,945	1,219,882	1,300,100	1,322,439	1,398,019	1,490,588	1,551,887	1,647,676	1,763,531	1,762,085	1,759,393	1,831,308	1,958,540	1,969,946	2,076,896	2,087,803	2,167,841	2,217,889	2,286,229	2,409,640
Retire TY GR3 and BR3	22,488	913,464	993,415	1,046,587	1,127,945	1,215,648	1,328,277	1,361,242	1,443,349	1,558,660	1,576,117	1,645,949	1,750,594	1,795,964	1,833,348	1,928,409	2,002,336	2,008,512	2,106,293	2,171,243	2,281,058	2,350,513	2,438,037	2,509,460
Retire TY GR3 and CR4	22,167	913,464	993,415	1,046,587	1,127,610	1,219,497	1,311,804	1,335,792	1,413,527	1,515,030	1,580,844	1,692,690	1,747,028	1,763,295	1,786,826	1,863,101	2,014,027	2,022,737	2,078,538	2,115,324	2,210,427	2,265,138	2,336,373	2,476,431
Retire TY GR3 CR4 and CR6	22,615	913,464	993,415	1,046,587	1,129,195	1,221,744	1,339,800	1,368,926	1,455,497	1,574,967	1,589,344	1,655,497	1,763,242	1,806,409	1,840,925	1,940,806	2,051,702	2,022,316	2,120,470	2,187,872	2,290,713	2,350,306	2,446,468	2,531,659
Retire TY GR3 CR4 CR6 and BR1-2	22,997	913,464	993,415	1,046,587	1,125,756	1,216,247	1,381,486	1,423,163	1,468,343	1,539,386	1,600,079	1,689,130	1,807,294	1,864,457	1,856,815	1,925,813	2,051,833	2,078,047	2,187,580	2,269,061	2,394,006	2,391,512	2,470,287	2,622,237
Retire TY GR3 and CR	22,955	913,464	993,415	1,046,587	1,128,961	1,221,482	1,369,151	1,403,552	1,499,154	1,565,317	1,597,565	1,681,590	1,791,702	1,848,289	1,894,693	1,938,758	2,055,473	2,083,419	2,196,547	2,272,285	2,337,240	2,362,681	2,450,434	2,591,403
Retire TY GR3 CR and GH3	23,849	913,464	993,415	1,046,587	1,128,962	1,218,738	1,420,239	1,413,317	1,504,679	1,608,675	1,685,070	1,801,058	1,855,554	1,890,721	1,927,098	2,031,187	2,188,001	2,225,507	2,360,251	2,362,568	2,450,913	2,502,050	2,619,775	2,781,168
Retire TY GR3 CR and GH1	23,775	913,463	993,415	1,040,563	1,118,371	1,202,338	1,411,038	1,417,760	1,499,220	1,609,641	1,683,919	1,789,900	1,852,675	1,888,176	1,934,198	2,027,907	2,188,589	2,218,946	2,263,061	2,350,654	2,447,631	2,520,342	2,612,588	2,789,017
Retire TY GR and CR	22,983	913,464	993,415	1,046,587	1,123,653	1,215,217	1,383,218	1,422,100	1,470,998	1,540,328	1,602,413	1,690,255	1,802,815	1,864,905	1,854,065	1,927,741	2,048,401	2,077,304	2,187,487	2,259,422	2,394,915	2,387,378	2,469,792	2,615,812
Retire TY GR CR and MC4	24,044	913,464	993,415	1,046,587	1,121,615	1,198,070	1,439,919	1,437,422	1,522,246	1,637,960	1,716,562	1,768,032	1,847,883	1,916,263	1,957,522	2,066,966	2,214,129	2,269,545	2,310,851	2,385,498	2,465,049	2,560,547	2,653,963	2,838,523
Retire TY GR CR and TC1	23,918	913,464	993,415	1,046,587	1,123,654	1,213,950	1,432,194	1,421,393	1,515,495	1,619,851	1,699,614	1,815,909	1,865,944	1,897,886	1,946,359	2,031,530	2,202,990	2,231,001	2,302,593	2,351,246	2,467,555	2,520,015	2,633,533	2,776,246
Retire TY GR CR and GH4	24,098	913,464	993,415	1,046,588	1,123,654	1,214,824	1,449,318	1,438,410	1,525,603	1,642,095	1,720,941	1,770,472	1,851,200	1,917,190	1,962,016	2,068,592	2,235,795	2,278,695	2,325,859	2,368,083	2,495,619	2,557,066	2,670,472	2,837,690
Retire TY GR CR and MC3	23,815	913,464	993,415	1,044,312	1,120,074	1,208,333	1,420,098	1,419,416	1,506,502	1,603,474	1,689,436	1,803,866	1,857,272	1,889,463	1,937,810	2,031,906	2,189,726	2,213,758	2,292,184	2,345,245	2,456,734	2,513,083	2,622,011	2,777,975
Retire TY GR CR and GH2	24,098	913,464	993,289	1,045,093	1,120,479	1,200,544	1,445,893	1,442,596	1,531,893	1,632,804	1,726,600	1,772,046	1,862,893	1,919,171	1,970,478	2,068,345	2,218,553	2,279,973	2,329,065	2,390,077	2,492,135	2,568,245	2,666,442	2,821,095
Retire TY GR CR and MC1-2	24,462	913,464	993,415	1,046,587	1,123,654	1,201,024	1,499,196	1,468,950	1,564,906	1,685,845	1,699,269	1,778,820	1,891,286	1,956,909	2,014,550	2,127,598	2,241,192	2,228,670	2,350,411	2,437,397	2,554,127	2,629,731	2,743,295	2,929,871
Retire TY GR CR BR1-2 and MC1-2	25,074	913,464	993,415	1,046,587	1,120,430	1,195,705	1,626,838	1,532,678	1,645,181	1,692,954	1,719,688	1,820,984	1,943,808	2,026,033	2,113,087	2,134,814	2,259,660	2,296,902	2,430,765	2,532,803	2,670,518	2,680,583	2,778,807	2,960,446
Retire TY GR CR and BR1-2	23,390	913,464	993,415	1,046,587	1,120,430	1,209,790	1,383,185	1,389,932	1,472,024	1,572,334	1,642,169	1,746,708	1,875,050	1,871,786	1,887,554	1,978,324	2,121,616	2,154,508	2,281,460	2,295,586	2,388,540	2,449,805	2,544,844	2,702,692
Production Cost Delta																								
No Retirements																								
Retire TY	22	0	0	0	-3,177	-2,466	-39,225	1,412	1,742	3,215	4,932	8,780	11,485	16,679	7,958	4,102	9,139	8,446	11,673	14,290	4,615	-3,857	-6,813	-12,372
Retire TY and GR3	3	0	0	0	-2,851	-2,527	1,454	1,824	2,446	4,420	6,007	10,561	13,844	-44,593	-20,748	5,184	10,977	10,774	14,810	-38,354	-20,046	7,383	9,264	12,066
Retire TY GR3 and BR3	606	0	0	0	0	-4,234	28,176	38,803	45,329	68,072	24,230	-1,726	-12,937	33,879	73,955	97,101	43,795	38,566	29,397	83,440	113,216	132,625	151,808	99,820
Retire TY GR3 and CR4	284	0	0	0	-335	-385	11,704	13,353	15,508	24,443	28,957	45,015	-16,503	1,210	27,433	31,793	55,487	52,791	1,642	27,521	42,586	47,249	50,143	66,790
Retire TY GR3 CR4 and CR6	448	0	0	0	1,585	2,247	27,995	33,134	41,969	59,937	8,500	-37,193	16,213	43,114	54,099	77,705	37,674	-421	41,932	72,548	80,285	85,169	110,095	55,228
Retire TY GR3 CR4 CR6 and BR1-2	382	0	0	0	-3,439	-5,497	41,687	54,237	12,846	-35,581	10,735	33,633	44,052	58,048	15,891	-14,992	132	55,731	67,111	81,190	103,293	41,206	23,819	90,578
Retire TY GR3 and CR	340	0	0	0	-234	-262	29,351	34,626	43,657	-9,650	8,221	26,093	28,460	41,880	53,769	-2,048	3,772	61,103	76,077	84,413	46,527	12,375	3,966	59,745
Retire TY GR3 CR and GH3	894	0	0	-1	0	-2,744	51,089	9,765	5,526	43,359	87,505	119,468	63,852	42,432	32,405	92,430	132,528	142,088	163,704	90,283	113,674	139,369	169,340	189,765
Retire TY GR3 CR and GH1	820	0	0	-6,025	-10,591	-19,144	41,888	14,208	67	44,325	86,354	108,310	60,973	39,887	39,505	89,149	133,116	135,527	66,515	78,369	110,391	157,661	162,154	197,614
Retire TY GR and CR	28	0	0	0	-5,308	-6,265	14,067	18,548	-28,156	-24,989	4,848	8,666	11,113	16,616	-40,628	-11,016	-7,072	-6,115	-9,060	-12,863	57,675	24,697	19,358	24,409
Retire TY GR CR and MC4	1,061	0	0	-1	-2,039	-17,147	56,701	15,321	51,249	97,632	114,149	77,777	45,068	51,359	103,457	139,225	165,728	192,241	123,364	126,075	70,135	173,170	184,171	222,711
Retire TY GR CR and TC1	935	0	0	-1	0	-1,267	48,976	-708	44,497	79,523	97,200	125,653	63,129	32,981	92,294	103,788	154,589	153,697	115,106	91,824	72,640	132,637	163,741	160,434
Retire TY GR CR and GH4	1,115	0	0	0	0	-393	66,100	16,309	54,606	101,767	118,528	80,217	48,385	52,286	107,951	140,851	187,394	201,391	138,372	108,660	100,705	169,688	200,679	221,878
Retire TY GR CR and MC3	832	0	0	-2,276	-3,580	-6,884	36,880	-2,685	35,504	63,146	87,022	113,610	54,457	24,558	83,745	104,164	141,325	136,454	104,697	85,823	61,819	125,705	152,219	162,163
Retire TY GR CR and GH2	1,115	0	-126	-1,495	-3,175	-14,673	62,675	20,495	60,896	92,476	124,187	81,791	60,078	54,267	116,413	140,604	170,152	202,669	141,578	130,654	97,221	180,867	196,649	205,283
Retire TY GR CR and MC1-2	1,480	0	0	-1	0	-14,193	115,978	46,850	93,909	145,517	96,855	88,564	88,471	92,005	160,485	199,857	192,791	151,366	162,924	177,975	159,213	242,353	273,503	314,059
Retire TY GR CR BR1-2 and MC1-2	2,091	0	0	-1	-3,224	-19,512	243,620	110,578	174,183	152,626	117,274	130,729	140,993	161,129	259,022	207,073	211,259	219,599	243,278	273,381	275,603	293,205	309,015	344,634
Retire TY GR CR and BR1-2	408	0	0	-1	-3,224	-5,427	-33	-32,169	1,026	32,006	39,755	56,453	72,235	6,881	33,489	50,583	73,215	77,204	93,972	36,164	-6,375	62,427	75,052	86,880
New Unit Capital																								
No Retirements	1,941	0	0	0	5,320	42,576	82,488	121,677	116,414	111,519	106,954	109,012	149,299	192,870	223,542	227,043	217,289	213,285	241,764	273,237	293,948	291,668	287,613	334,847
Retire TY	2,002	0	0	5,191	41,538	80,476	118,710	113,575	108,799	104,346	100,183	102,607	143,115	186,781	217,547	221,142	211,482	209,556	252,013	298,455	330,090	331,331	318,315	311,969
Retire TY and GR3	2,122	0	0	5,191	41,538	80,476	118,710	113,575	108,799	104,346	106,353	145,658	188,166	218,090	221,505	211,989	210,018	251,347	296,564	327,336	327,366	313,515	301,231	297,859
Retire TY GR3 and BR3	2,433	0	0	5,191	41,538	80,476	118,710	119,304	154,648	193,176	220,308	223,086	213,979	211,879	249,988	291,706	320,011	319,770	305,602	291,854	286,382	329,774	378,385	410,886
Retire TY GR3 and CR4	2,220	0	0	5,191	41,538	80,476	118,710	113,575	108,799	110,365	148,354	189,610	218,712	221,952	212,575	210,560	250,789	294,811	324,740	324,677	309,984	296,846	293,519	340,357
Retire TY GR3 CR4 and CR6	2,433	0	0	5,191	41,538	80,476	118,710	119,304	154,648	193,176	220,308	223,086	213,979	211,879	249,988	291,706	320,011	319,770	305,602	291,854	286,382	329,774	378,385	410,886
Retire TY GR3 CR4 CR6 and BR1-2	2,730	0	0	5,191	41,538	85,929	162,350	198,125	223,135	225,039	215,804	213,499	249,589	289,116	315,875	315,463	301,796	288,528	281,106	306,932	335,650	354,294	350,488	344,880
Retire TY GR3 and CR	2,583	0	0	5,191	41,538	80,476	124,299	158,306	195,463	221,541	223,894	214,793	210,900	235,715	263,178	281,129	278,758	273,808	313,180	356,483	385,068	383,373	367,422	358,140
Retire TY GR3 CR and GH3	3,074	0	0	10,381	83,075	160,952	227,537	228,452	218,848	215,914	249,697	287,014	312,301	311,727	298,537	285,727	280,414	318,359	360,022	387,091	383,418	366,995	361,570	406,361

AESC Gas Prices (Nominal $)

Discount Rate: 6.71%

	$M NPVRR	$000 2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Retire TY GR3 CR and GH1	3,106	0	0	10,381	83,075	160,952	227,537	228,452	218,848	215,914	249,697	287,014	312,301	311,727	298,537	292,708	329,122	369,330	395,446	391,569	373,061	357,242	352,366	397,655
Retire TY GR and CR	2,730	0	0	5,191	41,538	85,929	162,350	198,125	223,135	225,039	215,804	213,499	249,589	289,116	315,875	315,463	301,796	288,529	281,106	306,932	335,650	354,294	350,488	344,880
Retire TY GR CR and MC4	3,142	0	0	10,381	83,075	160,952	227,537	228,452	224,721	256,890	292,578	316,814	316,069	303,015	290,332	284,964	321,798	362,260	388,483	384,715	366,315	350,604	345,835	391,232
Retire TY GR CR and TC1	3,106	0	0	10,381	83,075	160,952	227,537	228,452	218,848	215,914	249,697	287,014	312,301	311,727	298,537	292,708	329,122	369,330	395,446	391,569	373,061	357,242	352,366	397,655
Retire TY GR CR and GH4	3,173	0	0	10,381	83,075	160,952	227,537	228,452	224,721	256,890	292,578	316,814	316,069	303,015	290,332	284,964	321,798	362,260	388,483	384,715	366,315	358,699	402,322	450,343
Retire TY GR CR and MC3	3,106	0	0	10,381	83,075	160,952	227,537	228,452	218,848	215,914	249,697	287,014	312,301	311,727	298,537	292,708	329,122	369,331	395,446	391,569	373,061	357,242	352,366	397,655
Retire TY GR CR and GH2	3,173	0	0	10,381	83,075	160,952	227,537	228,452	224,721	256,890	292,578	316,814	316,069	303,015	290,332	284,964	321,798	362,260	388,483	384,715	366,315	358,699	402,322	450,343
Retire TY GR CR and MC1-2	3,287	0	0	10,381	83,075	160,952	227,537	234,182	264,698	298,725	321,651	320,490	307,569	301,655	335,949	373,854	398,345	394,289	376,308	358,746	341,562	335,061	379,562	428,105
Retire TY GR CR BR1-2 and MC1-2	3,543	0	0	10,381	83,075	160,952	233,126	273,184	305,512	327,089	325,237	312,197	306,242	339,515	376,310	400,019	395,877	378,149	366,315	387,775	412,305	428,052	422,480	413,917
Retire TY GR CR and BR1-2	3,007	0	0	10,381	83,075	160,952	227,537	228,452	218,848	209,894	207,697	243,061	281,756	307,866	307,467	294,137	288,351	325,866	367,269	394,227	390,443	373,910	360,077	355,156
New Unit Capital Delta																								
No Retirements																								
Retire TY	61	0	0	5,191	36,217	37,900	36,222	-8,103	-7,615	-7,173	-6,771	-6,405	-6,184	-6,090	-5,995	-5,901	-5,806	-3,729	10,249	25,218	36,142	39,663	30,703	-22,878
Retire TY and GR3	120	0	0	0	0	0	0	0	0	0	6,170	43,051	45,051	31,309	3,958	-9,153	-1,465	41,790	44,551	28,881	-2,725	-17,817	-17,085	-14,110
Retire TY GR3 and BR3	312	0	0	0	0	0	0	5,730	45,850	88,831	113,955	77,428	25,813	-6,211	28,482	79,717	109,994	68,423	9,039	-35,481	-40,983	16,259	77,154	113,027
Retire TY GR3 and CR4	99	0	0	0	0	0	0	0	0	6,020	42,001	43,952	30,546	3,862	-8,930	-1,429	40,771	43,464	28,176	-2,658	-17,382	-16,668	-7,711	42,499
Retire TY GR3 CR4 and CR6	213	0	0	0	0	0	0	5,730	45,850	82,811	71,954	33,476	-4,732	-10,073	37,412	81,147	69,223	24,959	-19,138	-32,823	-23,601	32,928	84,866	70,529
Retire TY GR3 CR4 CR6 and BR1-2	297	0	0	0	0	5,453	43,641	78,821	68,487	31,863	-4,504	-9,587	35,610	77,236	65,887	23,756	-18,216	-31,242	-24,497	15,077	49,267	24,520	-27,897	-66,006
Retire TY GR3 and CR	150	0	0	0	0	0	5,590	39,002	40,814	28,364	3,586	-8,293	-3,079	23,836	13,190	-10,578	-41,254	-45,962	7,578	64,629	98,686	53,599	-10,963	-52,747
Retire TY GR3 CR and GH3	490	0	0	5,191	41,538	80,476	103,238	70,146	23,385	-5,627	25,804	72,220	101,401	76,012	35,359	4,598	1,656	44,551	46,842	30,608	-1,651	-16,378	-5,851	48,221
Retire TY GR3 CR and GH1	522	0	0	5,191	41,538	80,476	103,238	70,146	23,385	-5,627	25,804	72,220	101,401	76,012	35,359	11,579	50,365	95,522	82,265	35,086	-12,007	-26,131	-15,056	39,515
Retire TY GR and CR	147	0	0	0	0	5,453	38,051	39,819	27,673	3,499	-8,090	-1,295	38,689	53,400	52,697	34,334	23,038	14,720	-32,075	-49,551	-49,419	-29,079	-16,934	-13,260
Retire TY GR CR and MC4	411	0	0	5,191	41,538	75,023	65,187	30,328	1,585	31,851	76,774	103,315	66,480	13,899	-25,543	-30,499	20,002	73,732	107,377	77,783	30,665	-3,691	-4,653	46,352
Retire TY GR CR and TC1	375	0	0	5,191	41,538	75,023	65,187	30,328	-4,287	-9,125	33,894	73,515	62,712	22,612	-17,338	-22,755	27,327	80,802	114,340	84,637	37,412	2,948	1,878	52,775
Retire TY GR CR and GH4	443	0	0	5,191	41,538	75,023	65,187	30,328	1,585	31,851	76,774	103,315	66,480	13,899	-25,543	-30,499	20,002	73,732	107,377	77,783	30,665	4,405	51,834	105,463
Retire TY GR CR and MC3	375	0	0	5,191	41,538	75,023	65,187	30,328	-4,287	-9,125	33,894	73,515	62,712	22,612	-17,338	-22,755	27,326	80,802	114,340	84,637	37,412	2,948	1,878	52,775
Retire TY GR CR and GH2	443	0	0	5,191	41,538	75,023	65,187	30,328	1,585	31,851	76,774	103,315	66,480	13,899	-25,543	-30,499	20,002	73,732	107,377	77,783	30,665	4,405	51,834	105,463
Retire TY GR CR and MC1-2	557	0	0	5,191	41,538	75,023	65,187	36,057	41,563	73,686	105,848	106,991	57,980	12,539	20,074	58,391	96,549	105,761	95,202	51,814	5,913	-19,233	29,074	83,225
Retire TY GR CR BR1-2 and MC1-2	812	0	0	5,191	41,538	75,023	70,776	75,059	82,377	102,050	109,434	98,698	56,653	50,399	60,435	84,556	94,081	89,620	85,209	80,843	76,656	73,758	71,992	69,037
Retire TY GR CR and BR1-2	276	0	0	5,191	41,538	75,023	65,187	30,328	-4,287	-15,145	-8,107	29,562	32,167	18,750	-8,408	-21,326	-13,445	37,338	86,164	87,296	54,794	19,616	9,589	10,276
New Controls Capital																								
No Retirements	3,614	5,931	66,348	200,982	360,111	446,379	457,561	434,784	413,355	392,884	372,657	352,470	332,282	312,094	291,915	274,128	260,867	250,426	240,933	231,711	204,492	180,312	173,301	146,775
Retire TY	3,568	5,931	65,025	196,834	354,404	440,980	452,440	429,914	408,714	388,467	368,466	348,504	328,541	308,579	288,624	270,993	257,818	247,462	238,055	228,918	201,786	177,691	170,765	144,325
Retire TY and GR3	3,522	5,931	63,702	192,687	348,698	435,581	447,318	425,044	404,073	384,051	364,275	344,538	324,801	305,063	285,334	267,858	254,769	244,499	235,177	226,126	199,079	175,070	168,230	141,875
Retire TY GR3 and BR3	3,412	5,931	63,498	189,833	341,102	422,143	433,198	411,641	391,316	371,880	352,680	333,519	314,358	295,197	276,044	259,143	246,444	236,376	227,257	218,409	191,565	167,758	161,121	134,969
Retire TY GR3 and CR4	3,217	4,867	56,370	169,126	304,277	393,642	407,665	387,508	368,506	350,431	332,602	314,811	297,020	279,229	261,447	245,466	233,421	224,196	215,918	207,912	181,909	175,070	168,230	141,875
Retire TY GR3 CR4 and CR6	2,805	2,833	45,919	136,980	246,527	339,098	356,062	338,616	322,129	306,536	291,188	275,880	260,571	245,262	229,961	215,853	205,070	197,107	190,092	183,348	158,607	153,030	147,452	141,875
Retire TY GR3 CR4 CR6 and BR1-2	2,572	2,344	39,413	121,375	219,952	311,354	329,736	313,572	298,249	283,801	269,599	255,435	241,272	227,108	212,953	199,628	189,267	181,725	175,132	168,810	144,491	139,335	134,179	129,024
Retire TY GR3 and CR	2,484	1,786	38,065	111,787	198,784	294,032	313,468	298,316	283,969	270,491	257,258	244,064	230,871	217,677	204,491	192,024	182,408	175,611	169,763	164,185	158,607	153,030	147,452	141,875
Retire TY GR3 CR and GH3	2,301	1,671	37,500	106,638	188,044	273,909	289,887	275,771	262,450	249,916	237,588	225,298	213,009	200,719	188,437	176,850	168,092	161,891	156,372	151,118	145,864	140,610	135,356	130,102
Retire TY GR3 CR and GH1	2,312	1,600	33,171	100,624	179,084	272,757	293,301	279,160	265,739	253,174	240,854	228,573	216,291	204,010	191,737	179,921	170,696	164,290	158,833	153,646	148,460	143,273	138,086	132,900
Retire TY GR and CR	2,417	1,786	36,180	105,877	190,031	285,759	305,631	290,878	276,898	263,781	250,910	238,078	225,246	212,414	199,589	187,384	177,930	171,296	165,611	160,196	154,781	149,366	143,951	138,537
Retire TY GR CR and MC4	2,000	924	23,470	79,204	152,023	234,493	256,199	243,619	232,033	221,025	210,258	199,530	188,801	178,073	167,344	157,227	149,316	143,650	138,903	134,426	129,949	125,472	120,995	116,518
Retire TY GR CR and TC1	2,300	1,786	36,180	103,677	184,286	273,792	289,798	275,655	262,395	249,943	237,710	225,514	213,319	201,123	188,935	177,366	168,549	162,378	156,974	151,833	146,692	141,551	136,410	131,270
Retire TY GR CR and GH4	2,243	1,664	35,653	102,060	180,415	268,840	282,440	268,854	255,934	243,789	231,814	219,842	207,870	195,898	183,934	172,589	163,972	158,150	153,030	147,934	142,838	137,741	132,645	127,549
Retire TY GR CR and MC3	2,187	1,786	34,801	96,487	172,591	260,220	276,113	262,568	249,930	238,075	226,434	214,829	203,225	191,620	180,024	169,022	160,649	154,790	149,666	144,802	139,938	135,073	130,209	125,345
Retire TY GR CR and GH2	2,256	1,775	32,669	97,613	174,080	266,570	287,212	273,287	260,063	247,668	235,517	223,405	211,293	199,182	187,078	175,581	166,604	160,218	154,770	149,593	144,416	139,239	134,062	128,884
Retire TY GR CR and MC1-2	1,750	1,786	28,974	80,967	145,665	202,060	215,466	205,484	195,876	186,786	177,886	169,025	160,164	151,302	142,449	134,214	127,668	122,876	119,033	115,461	111,889	108,316	104,744	101,172
Retire TY GR CR BR1-2 and MC1-2	1,518	1,297	22,468	65,362	119,090	174,317	189,141	180,440	171,996	164,052	156,297	148,581	140,865	133,149	125,440	117,989	111,864	107,495	104,073	100,923	97,772	94,622	91,471	88,321
Retire TY GR CR and BR1-2	2,184	1,297	29,674	90,272	163,456	258,016	279,305	265,834	253,018	241,046	229,321	217,634	205,947	194,260	182,581	171,159	162,127	155,915	150,651	145,658	140,665	135,672	130,678	125,685
New Controls Capital Delta																								
No Retirements																								
Retire TY	-46	0	-1,323	-4,148	-5,707	-5,399	-5,121	-4,870	-4,641	-4,416	-4,191	-3,966	-3,741	-3,516	-3,290	-3,135	-3,049	-2,964	-2,878	-2,792	-2,707	-2,621	-2,536	-2,450
Retire TY and GR3	-46	0	-1,323	-4,148	-5,707	-5,399	-5,121	-4,870	-4,641	-4,416	-4,191	-3,966	-3,741	-3,516	-3,290	-3,135	-3,049	-2,964	-2,878	-2,792	-2,707	-2,621	-2,536	-2,450
Retire TY GR3 and BR3	-110	0	-204	-2,854	-7,595	-13,437	-14,120	-13,404	-12,757	-12,171	-11,595	-11,019	-10,443	-9,867	-9,290	-8,714	-8,325	-8,122	-7,920	-7,717	-7,514	-7,311	-7,109	-6,906
Retire TY GR3 and CR4	-304	-1,064	-7,332	-23,561	-44,421	-41,939	-39,653	-37,537	-35,567	-33,620	-31,674	-29,727	-27,780	-25,834	-23,887	-22,392	-21,347	-20,303	-19,258	-18,214	-17,169	0	0	0
Retire TY GR3 CR4 and CR6	-412	-2,034	-10,451	-32,146	-57,750	-54,544	-51,603	-48,892	-46,378	-43,896	-41,413	-38,931	-36,449	-33,967	-31,485	-29,613	-28,351	-27,089	-25,826	-24,564	-23,302	-22,040	-20,777	0
Retire TY GR3 CR4 CR6 and BR1-2	-232	-489	-6,506	-15,605	-26,575	-27,743	-26,326	-25,044	-23,880	-22,735	-21,590	-20,444	-19,299	-18,154	-17,009	-16,225	-15,803	-15,382	-14,960	-14,538	-14,116	-13,695	-13,273	-12,851
Retire TY GR3 and CR	-320	-1,047	-7,854	-25,193	-47,744	-45,066	-42,594	-40,300	-38,160	-36,045	-33,930	-31,815	-29,700	-27,585	-25,470	-23,829	-22,663	-21,496	-20,329	-19,163	0	0	0	0
Retire TY GR3 CR and GH3	-184	-115	-565	-5,149	-10,740	-20,123	-23,581	-22,544	-21,518	-20,575	-19,670	-18,766	-17,862	-16,958	-16,054	-15,173	-14,316	-13,720	-13,391	-13,067	-12,743	-12,420	-12,096	-11,772
Retire TY GR3 CR and GH1	-172	-186	-4,894	-11,163	-19,700	-21,275	-20,167	-19,156	-18,230	-17,317	-16,404	-15,492	-14,579	-13,667	-12,754	-12,103	-11,712	-11,321	-10,930	-10,539	-10,148	-9,757	-9,366	-8,975
Retire TY GR and CR	-68	0	-1,885	-5,910	-8,752	-8,273	-7,837	-7,438	-7,071	-6,709	-6,348	-5,986	-5,625	-5,264	-4,902	-4,640	-4,477	-4,315	-4,152	-3,989	-3,826	-3,664	-3,501	-3,338
Retire TY GR CR and MC4	-417	-862	-12,710	-26,673	-38,008	-51,266	-49,432	-47,059	-44,864	-42,756	-40,652	-38,548	-36,445	-34,341	-32,245	-30,157	-28,614	-27,646	-26,708	-25,770	-24,832	-23,894	-22,956	-22,018
Retire TY GR CR and TC1	-117	0	0	-2,200	-5,745	-11,967	-15,834	-15,223	-14,502	-13,838	-13,200	-12,564	-11,927	-11,291	-10,654	-10,018	-9,381	-8,918	-8,637	-8,363	-8,089	-7,815	-7,541	-7,267
Retire TY GR CR and GH4	-174	-122	-527	-3,817	-9,616	-16,919	-23,191	-22,024	-20,963	-19,992	-19,096	-18,236	-17,376	-16,516	-15,655	-14,795	-13,959	-13,146	-12,581	-12,262	-11,944	-11,625	-11,307	-10,988
Retire TY GR CR and MC3	-230	0	-1,379	-9,390	-17,441	-25,539	-29,519	-28,309	-26,968	-25,706	-24,477	-23,249	-22,021	-20,793	-19,566	-18,361	-17,281	-16,506	-15,945	-15,394	-14,844	-14,293	-13,742	-13,192
Retire TY GR CR and GH2	-160	-11	-3,511	-8,264	-15,951	-19,189	-18,419	-17,591	-16,835	-16,113	-15,393	-14,673	-13,952	-13,232	-12,512	-11,803	-11,326	-11,079	-10,841	-10,603	-10,365	-10,128	-9,890	-9,652
Retire TY GR CR and MC1-2	-666	0	-7,206	-24,910	-44,366	-83,699	-90,165	-85,393	-81,022	-76,995	-73,024	-69,053	-65,082	-61,111	-57,140	-53,169	-50,263	-48,420	-46,578	-44,735	-42,892	-41,050	-39,207	-37,365
Retire TY GR CR BR1-2 and MC1-2	-899	-489	-13,712	-40,515	-70,941	-111,442	-116,490	-110,438	-104,902	-99,730	-94,613	-89,497	-84,381	-79,265	-74,149	-69,394	-66,066	-63,802	-61,537	-59,273	-57,009	-54,745	-52,480	-50,216
Retire TY GR CR and BR1-2	-232	-489	-6,506	-15,605	-26,575	-27,743	-26,326	-25,044	-23,880	-22,735	-21,590	-20,444	-19,299	-18,154	-17,009	-16,225	-15,803	-15,382	-14,960	-14,538	-14,116	-13,695	-13,273	-12,851

AESC Gas Prices (Nominal $)

Discount Rate: 6.71%

	$M NPVRR	$000 2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
MTP Capital																								
No Retirements	883	4,778	11,562	18,173	24,637	30,976	37,210	43,345	49,380	55,311	61,136	66,853	72,459	77,965	83,446	88,957	94,500	100,076	105,685	111,329	116,849	122,412	128,018	133,669
Retire TY	866	4,778	11,562	18,173	24,637	30,976	36,456	42,467	48,381	54,193	59,902	65,506	71,000	76,398	81,768	87,170	92,602	98,068	103,567	109,099	114,508	119,959	125,453	130,991
Retire TY and GR3	860	4,778	11,562	18,173	24,637	30,976	36,146	42,107	47,971	53,735	59,396	64,953	70,402	75,754	81,080	86,435	91,823	97,242	102,695	108,182	113,544	118,948	124,395	129,886
Retire TY GR3 and BR3	813	4,778	11,562	18,173	24,637	30,976	34,004	39,614	45,133	50,558	55,888	61,119	66,249	71,285	76,291	81,325	86,388	91,480	96,603	101,756	106,783	111,848	116,953	122,099
Retire TY GR3 and CR4	846	4,778	11,562	18,173	24,637	30,976	35,468	41,317	47,072	52,729	58,287	63,743	69,094	74,350	79,579	84,839	90,132	95,457	100,815	106,208	111,521	116,875	122,270	127,708
Retire TY GR3 CR4 and CR6	824	4,778	11,562	18,173	24,637	30,976	34,418	40,094	45,680	51,172	56,569	61,869	67,068	72,175	77,255	82,368	87,513	92,692	97,904	103,152	108,389	113,664	118,979	124,335
Retire TY GR3 CR4 CR6 and BR1-2	794	4,778	11,562	18,173	24,637	30,976	33,038	38,488	43,851	49,126	54,309	59,399	64,393	69,295	74,170	79,076	84,012	88,979	93,980	99,013	104,033	109,090	114,185	119,318
Retire TY GR3 and CR	809	4,778	11,562	18,173	24,637	30,976	33,683	39,238	44,705	50,082	55,367	60,557	65,650	70,652	75,629	80,638	85,680	90,756	95,867	101,013	106,196	111,417	116,676	121,974
Retire TY GR3 CR and GH3	724	4,778	11,562	18,173	24,637	30,976	29,800	34,714	39,550	44,305	48,978	53,566	58,067	62,487	66,885	71,310	75,763	80,245	84,756	89,297	93,869	98,473	103,109	107,778
Retire TY GR3 CR and GH1	725	4,778	11,562	18,173	24,637	30,976	29,840	34,761	39,604	44,366	49,044	53,639	58,146	62,572	66,976	71,407	75,867	80,354	84,872	89,419	93,998	98,608	103,250	107,926
Retire TY GR and CR	800	4,778	11,562	18,173	24,637	30,976	33,251	38,735	44,133	49,442	54,660	59,785	64,814	69,754	74,667	79,612	84,591	89,603	94,649	99,731	104,849	110,005	115,198	120,431
Retire TY GR CR and MC4	715	4,778	11,562	18,173	24,637	30,976	29,320	34,154	38,913	43,595	48,199	52,721	57,160	61,522	65,864	70,237	74,641	79,077	83,546	88,049	92,586	97,159	101,768	106,415
Retire TY GR CR and TC1	781	4,778	11,562	18,173	24,637	30,976	32,396	37,740	42,998	48,170	53,253	58,245	63,144	67,955	72,740	77,556	82,403	87,285	92,196	97,143	102,125	107,142	112,196	117,287
Retire TY GR CR and GH4	715	4,778	11,562	18,173	24,637	30,976	29,376	34,221	38,988	43,677	48,284	52,808	57,247	61,606	65,941	70,304	74,695	79,114	83,562	88,039	92,548	97,088	101,660	106,265
Retire TY GR CR and MC3	731	4,778	11,562	18,173	24,637	30,976	30,029	34,980	39,854	44,649	49,363	53,994	58,540	63,006	67,451	71,927	76,435	80,975	85,548	90,155	94,797	99,475	104,190	108,942
Retire TY GR CR and GH2	714	4,778	11,562	18,173	24,637	30,976	29,335	34,174	38,935	43,617	48,218	52,735	57,168	61,521	65,850	70,207	74,591	79,004	83,446	87,917	92,420	96,953	101,519	106,117
Retire TY GR CR and MC1-2	693	4,778	11,562	18,173	24,637	30,976	28,274	32,935	37,524	42,039	46,478	50,840	55,122	59,331	63,521	67,741	71,992	76,274	80,590	84,938	89,321	93,739	98,192	102,683
Retire TY GR CR BR1-2 and MC1-2	663	4,778	11,562	18,173	24,637	30,976	26,893	31,328	35,695	39,992	44,218	48,370	52,447	56,451	60,436	64,448	68,490	72,562	76,665	80,799	84,965	89,165	93,398	97,666
Retire TY GR CR and BR1-2	770	4,778	11,562	18,173	24,637	30,976	31,871	37,129	42,304	47,395	52,400	57,315	62,139	66,874	71,582	76,320	81,089	85,891	90,725	95,592	100,494	105,431	110,404	115,414
MTP Capital Delta																								
No Retirements																								
Retire TY	-16	0	0	0	0	0	-754	-878	-999	-1,118	-1,234	-1,347	-1,458	-1,568	-1,677	-1,787	-1,898	-2,008	-2,119	-2,230	-2,341	-2,453	-2,565	-2,678
Retire TY and GR3	-7	0	0	0	0	0	-309	-360	-410	-458	-506	-553	-598	-643	-689	-734	-780	-825	-871	-918	-964	-1,011	-1,057	-1,104
Retire TY GR3 and BR3	-47	0	0	0	0	0	-2,143	-2,493	-2,838	-3,176	-3,508	-3,834	-4,153	-4,469	-4,789	-5,111	-5,435	-5,762	-6,092	-6,425	-6,761	-7,100	-7,442	-7,787
Retire TY GR3 and CR4	-14	0	0	0	0	0	-678	-790	-899	-1,006	-1,109	-1,210	-1,308	-1,405	-1,501	-1,596	-1,691	-1,786	-1,880	-1,974	-2,023	-2,073	-2,125	-2,178
Retire TY GR3 CR4 and CR6	-21	0	0	0	0	0	-1,050	-1,223	-1,392	-1,557	-1,718	-1,874	-2,026	-2,175	-2,324	-2,471	-2,619	-2,765	-2,911	-3,056	-3,132	-3,210	-3,291	-3,373
Retire TY GR3 CR4 CR6 and BR1-2	-30	0	0	0	0	0	-1,380	-1,606	-1,828	-2,046	-2,260	-2,470	-2,675	-2,879	-3,085	-3,292	-3,501	-3,712	-3,925	-4,139	-4,356	-4,574	-4,794	-5,017
Retire TY GR3 and CR	-15	0	0	0	0	0	-735	-856	-975	-1,090	-1,202	-1,312	-1,418	-1,522	-1,626	-1,730	-1,833	-1,936	-2,038	-2,139	-2,193	-2,247	-2,304	-2,361
Retire TY GR3 CR and GH3	-85	0	0	0	0	0	-3,883	-4,524	-5,155	-5,777	-6,389	-6,991	-7,583	-8,165	-8,744	-9,328	-9,917	-10,511	-11,111	-11,716	-12,327	-12,944	-13,567	-14,196
Retire TY GR3 CR and GH1	-84	0	0	0	0	0	-3,843	-4,477	-5,101	-5,717	-6,322	-6,918	-7,504	-8,080	-8,653	-9,231	-9,814	-10,402	-10,995	-11,594	-12,199	-12,809	-13,425	-14,048
Retire TY GR and CR	-9	0	0	0	0	0	-432	-503	-572	-640	-707	-772	-836	-899	-962	-1,026	-1,089	-1,153	-1,217	-1,282	-1,347	-1,412	-1,477	-1,543
Retire TY GR CR and MC4	-85	0	0	0	0	0	-3,931	-4,581	-5,219	-5,846	-6,461	-7,064	-7,654	-8,231	-8,803	-9,376	-9,950	-10,526	-11,103	-11,683	-12,263	-12,846	-13,430	-14,016
Retire TY GR CR and TC1	-19	0	0	0	0	0	-855	-996	-1,135	-1,272	-1,407	-1,539	-1,670	-1,799	-1,927	-2,057	-2,188	-2,320	-2,453	-2,588	-2,725	-2,863	-3,002	-3,144
Retire TY GR CR and GH4	-85	0	0	0	0	0	-3,875	-4,514	-5,144	-5,765	-6,376	-6,977	-7,567	-8,148	-8,726	-9,308	-9,896	-10,489	-11,088	-11,692	-12,302	-12,917	-13,538	-14,166
Retire TY GR CR and MC3	-69	0	0	0	0	0	-3,222	-3,755	-4,278	-4,792	-5,296	-5,790	-6,274	-6,747	-7,216	-7,685	-8,156	-8,628	-9,102	-9,576	-10,052	-10,530	-11,009	-11,489
Retire TY GR CR and GH2	-86	0	0	0	0	0	-3,916	-4,562	-5,198	-5,825	-6,442	-7,049	-7,646	-8,233	-8,817	-9,405	-9,999	-10,599	-11,204	-11,814	-12,430	-13,052	-13,680	-14,314
Retire TY GR CR and MC1-2	-107	0	0	0	0	0	-4,977	-5,800	-6,609	-7,403	-8,182	-8,945	-9,692	-10,423	-11,146	-11,872	-12,599	-13,328	-14,060	-14,793	-15,529	-16,266	-17,006	-17,748
Retire TY GR CR BR1-2 and MC1-2	-137	0	0	0	0	0	-6,358	-7,407	-8,437	-9,449	-10,442	-11,415	-12,367	-13,302	-14,231	-15,164	-16,101	-17,041	-17,985	-18,932	-19,884	-20,840	-21,800	-22,765
Retire TY GR CR and BR1-2	-30	0	0	0	0	0	-1,380	-1,606	-1,828	-2,046	-2,260	-2,470	-2,675	-2,879	-3,085	-3,292	-3,501	-3,712	-3,925	-4,139	-4,356	-4,574	-4,794	-5,017
Landfill Capital																								
No Retirements	651	936	3,049	4,083	3,979	4,416	39,767	41,494	43,787	48,239	54,623	57,334	57,530	61,040	65,618	72,663	80,567	85,321	86,158	95,531	104,979	105,473	112,416	114,016
Retire TY	651	936	3,049	4,083	3,979	4,416	39,767	41,494	43,787	48,239	54,623	57,334	57,530	61,040	65,618	72,663	80,567	85,321	86,158	95,531	104,979	105,473	112,416	114,016
Retire TY and GR3	651	936	3,049	4,083	3,979	4,416	39,767	41,494	43,787	48,239	54,623	57,334	57,530	61,040	65,618	72,663	80,567	85,321	86,158	95,531	104,979	105,473	112,416	114,016
Retire TY GR3 and BR3	623	936	3,049	4,083	3,979	4,416	37,951	39,624	41,357	45,703	51,388	54,092	54,278	56,779	61,276	67,072	75,058	79,889	80,799	90,239	99,761	100,853	110,728	112,431
Retire TY GR3 and CR4	630	678	2,210	2,959	2,884	3,200	37,807	39,545	42,143	46,312	52,051	54,774	55,433	58,982	63,545	71,132	78,799	83,511	84,290	93,598	102,979	103,613	110,606	112,238
Retire TY GR3 CR4 and CR6	583	279	910	1,219	1,187	1,318	32,585	34,392	37,577	41,413	46,252	49,092	50,567	54,270	58,909	67,432	74,830	79,551	80,290	89,551	98,878	99,779	106,902	108,636
Retire TY GR3 CR4 CR6 and BR1-2	565	279	910	1,219	1,187	1,318	31,416	33,188	36,012	39,779	44,168	47,004	48,472	51,524	56,111	63,830	71,281	76,052	76,837	86,142	95,516	96,803	105,815	107,615
Retire TY GR3 and CR	560	0	0	0	0	0	30,461	32,280	35,795	39,324	43,464	46,318	48,295	52,038	56,662	65,772	72,914	77,589	78,264	87,457	96,710	97,763	104,940	106,709
Retire TY GR3 CR and GH3	457	0	0	0	0	0	24,782	26,229	29,160	31,876	35,294	37,464	38,979	42,229	45,758	53,132	58,483	61,987	62,495	71,013	79,672	80,248	86,896	87,966
Retire TY GR3 CR and GH1	458	0	0	0	0	0	24,841	26,292	29,229	31,953	35,379	37,557	39,076	42,331	45,872	53,264	58,633	62,150	62,660	71,184	79,849	80,431	87,084	88,161
Retire TY GR and CR	560	0	0	0	0	0	30,461	32,280	35,795	39,324	43,464	46,318	48,295	52,038	56,662	65,772	72,914	77,589	78,264	87,457	96,710	97,763	104,940	106,709
Retire TY GR CR and MC4	560	0	0	0	0	0	30,461	32,280	35,795	39,324	43,464	46,318	48,295	52,038	56,662	65,772	72,914	77,589	78,264	87,457	96,710	97,763	104,940	106,709
Retire TY GR CR and TC1	518	0	0	0	0	0	28,496	30,215	33,625	37,108	41,204	44,013	45,943	49,639	54,215	63,277	70,369	74,993	75,616	82,094	88,471	89,469	92,586	94,706
Retire TY GR CR and GH4	457	0	0	0	0	0	24,794	26,242	29,174	31,891	35,311	37,483	38,998	42,249	45,781	53,159	58,513	62,020	62,528	71,047	79,707	80,285	86,934	88,005
Retire TY GR CR and MC3	560	0	0	0	0	0	30,461	32,280	35,795	39,324	43,464	46,318	48,295	52,038	56,662	65,772	72,914	77,589	78,264	87,457	96,710	97,763	104,940	106,709
Retire TY GR CR and GH2	456	0	0	0	0	0	24,734	26,179	29,104	31,814	35,226	37,391	38,901	42,147	45,667	53,027	58,363	61,857	62,364	70,876	79,530	80,102	86,746	87,810
Retire TY GR CR and MC1-2	560	0	0	0	0	0	30,461	32,280	35,795	39,324	43,464	46,318	48,295	52,038	56,662	65,772	72,914	77,589	78,264	87,457	96,710	97,763	104,940	106,709
Retire TY GR CR BR1-2 and MC1-2	541	0	0	0	0	0	29,292	31,075	34,230	37,690	41,380	44,230	46,200	49,293	53,864	62,170	69,365	74,090	74,812	84,048	93,348	94,787	103,853	105,688
Retire TY GR CR and BR1-2	541	0	0	0	0	0	29,292	31,075	34,230	37,690	41,380	44,230	46,200	49,293	53,864	62,170	69,365	74,090	74,812	84,048	93,348	94,787	103,853	105,688
Landfill Capital Delta																								
No Retirements																								
Retire TY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and GR3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and BR3	-29	0	0	0	0	0	-1,816	-1,870	-2,430	-2,536	-3,235	-3,242	-3,252	-4,261	-4,342	-5,591	-5,508	-5,431	-5,359	-5,291	-5,219	-4,620	-1,688	-1,585
Retire TY GR3 and CR4	-22	-258	-840	-1,124	-1,095	-1,216	-1,960	-1,949	-1,644	-1,927	-2,572	-2,560	-2,096	-2,059	-2,073	-1,531	-1,768	-1,810	-1,869	-1,932	-2,000	-1,861	-1,810	-1,778
Retire TY GR3 CR4 and CR6	-46	-399	-1,300	-1,741	-1,696	-1,882	-5,221	-5,152	-4,566	-4,899	-5,799	-5,682	-4,867	-4,712	-4,637	-3,700	-3,969	-3,960	-4,000	-4,047	-4,101	-3,833	-3,704	-3,602
Retire TY GR3 CR4 CR6 and BR1-2	-18	0	0	0	0	0	-1,170	-1,205	-1,565	-1,634	-2,084	-2,089	-2,095	-2,745	-2,797	-3,602	-3,549	-3,499	-3,452	-3,409	-3,362	-2,976	-1,088	-1,021
Retire TY GR3 and CR	-24	-279	-910	-1,219	-1,187	-1,318	-2,124	-2,112	-1,782	-2,089	-2,788	-2,774	-2,272	-2,232	-2,247	-1,659	-1,916	-1,962	-2,025	-2,094	-2,168	-2,017	-1,962	-1,927
Retire TY GR3 CR and GH3	-103	0	0	0	0	0	-5,680	-6,051	-6,635	-7,448	-8,170	-8,854	-9,316	-9,809	-10,904	-12,640	-14,431	-15,602	-15,769	-16,444	-17,038	-17,514	-18,044	-18,743
Retire TY GR3 CR and GH1	-102	0	0	0	0	0	-5,620	-5,988	-6,566	-7,371	-8,085	-8,761	-9,219	-9,707	-10,790	-12,508	-14,281	-15,439	-15,604	-16,273	-16,860	-17,332	-17,856	-18,548

AESC Gas Prices (Nominal $)

Discount Rate: 6.71%

	$M NPVRR	$000 2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Retire TY GR and CR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and TC1	-42	0	0	0	0	0	-1,965	-2,066	-2,172	-2,216	-2,260	-2,305	-2,351	-2,398	-2,446	-2,495	-2,545	-2,596	-2,648	-5,363	-8,239	-8,294	-12,354	-12,003
Retire TY GR CR and GH4	-103	0	0	0	0	0	-5,668	-6,038	-6,622	-7,433	-8,153	-8,835	-9,297	-9,789	-10,881	-12,614	-14,401	-15,569	-15,736	-16,410	-17,002	-17,478	-18,007	-18,704
Retire TY GR CR and MC3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH2	-104	0	0	0	0	0	-5,727	-6,101	-6,691	-7,510	-8,238	-8,927	-9,394	-9,891	-10,994	-12,745	-14,551	-15,732	-15,900	-16,581	-17,180	-17,660	-18,195	-18,899
Retire TY GR CR and MC1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR BR1-2 and MC1-2	-18	0	0	0	0	0	-1,170	-1,205	-1,565	-1,634	-2,084	-2,089	-2,095	-2,745	-2,797	-3,602	-3,549	-3,499	-3,452	-3,409	-3,362	-2,976	-1,088	-1,021
Retire TY GR CR and BR1-2	-18	0	0	0	0	0	-1,170	-1,205	-1,565	-1,634	-2,084	-2,089	-2,095	-2,745	-2,797	-3,602	-3,549	-3,499	-3,452	-3,409	-3,362	-2,976	-1,088	-1,021
Water Capital																								
No Retirements	235	0	0	0	22,976	32,582	30,878	29,324	27,901	26,592	25,321	24,050	22,779	21,508	20,237	18,966	17,849	17,096	16,551	16,007	15,462	14,918	14,373	11,813
Retire TY	229	0	0	0	22,390	31,745	30,086	28,573	27,188	25,913	24,676	23,439	22,201	20,964	19,727	18,490	17,397	16,658	16,128	15,598	15,067	14,537	14,007	11,461
Retire TY and GR3	223	0	0	0	21,804	30,908	29,294	27,823	26,475	25,234	24,031	22,827	21,624	20,420	19,217	18,014	16,945	16,221	15,705	15,189	14,673	14,157	13,641	11,110
Retire TY GR3 and BR3	200	0	0	0	19,525	27,848	26,398	25,073	23,858	22,739	21,654	20,569	19,484	18,399	17,315	16,230	15,242	14,561	14,088	13,615	13,142	12,669	12,196	9,707
Retire TY GR3 and CR4	213	0	0	0	20,824	29,326	27,800	26,409	25,136	23,965	22,830	21,695	20,560	19,425	18,290	17,155	16,139	15,450	14,970	14,490	14,010	13,530	13,050	11,110
Retire TY GR3 CR4 and CR6	197	0	0	0	19,306	26,877	25,487	24,221	23,063	21,999	20,970	19,941	18,912	17,884	16,855	15,826	14,890	14,257	13,833	13,408	12,984	12,560	12,135	11,110
Retire TY GR3 CR4 CR6 and BR1-2	182	0	0	0	17,838	24,906	23,621	22,450	21,377	20,391	19,439	18,486	17,534	16,582	15,629	14,677	13,793	13,188	12,791	12,394	11,998	11,601	11,204	10,206
Retire TY GR3 and CR	186	0	0	0	18,244	25,162	23,867	22,689	21,612	20,623	19,669	18,714	17,759	16,805	15,850	14,895	14,016	13,422	13,037	12,651	12,266	11,880	11,495	11,110
Retire TY GR3 CR and GH3	171	0	0	0	16,767	23,187	21,992	20,903	19,909	18,995	18,113	17,230	16,348	15,465	14,583	13,700	12,893	12,349	11,991	11,632	11,274	10,915	10,557	10,199
Retire TY GR3 CR and GH1	171	0	0	0	16,782	23,208	22,011	20,922	19,926	19,012	18,129	17,246	16,362	15,479	14,596	13,713	12,905	12,360	12,001	11,643	11,284	10,926	10,567	10,208
Retire TY GR and CR	177	0	0	0	17,425	23,993	22,761	21,640	20,616	19,675	18,768	17,860	16,953	16,045	15,138	14,230	13,385	12,811	12,445	12,080	11,715	11,349	10,984	10,618
Retire TY GR CR and MC4	157	0	0	0	15,512	21,201	20,113	19,124	18,221	17,394	16,595	15,796	14,998	14,199	13,401	12,602	11,866	11,371	11,056	10,741	10,426	10,111	9,796	9,481
Retire TY GR CR and TC1	170	0	0	0	16,655	22,985	21,804	20,728	19,745	18,842	17,971	17,100	16,228	15,357	14,486	13,615	12,806	12,256	11,903	11,550	11,198	10,845	10,492	10,140
Retire TY GR CR and GH4	163	0	0	0	15,951	22,022	20,889	19,858	18,916	18,050	17,215	16,380	15,544	14,709	13,873	13,038	12,264	11,740	11,401	11,063	10,725	10,386	10,048	9,709
Retire TY GR CR and MC3	161	0	0	0	15,857	21,704	20,590	19,578	18,653	17,805	16,987	16,169	15,350	14,532	13,714	12,896	12,140	11,631	11,307	10,983	10,659	10,334	10,010	9,686
Retire TY GR CR and GH2	162	0	0	0	15,936	22,002	20,870	19,840	18,898	18,034	17,199	16,364	15,529	14,695	13,860	13,025	12,253	11,729	11,391	11,052	10,714	10,376	10,038	9,700
Retire TY GR CR and MC1-2	152	0	0	0	15,003	20,457	19,408	18,454	17,584	16,786	16,017	15,247	14,477	13,708	12,938	12,168	11,461	10,988	10,686	10,385	10,083	9,782	9,480	9,179
Retire TY GR CR BR1-2 and MC1-2	137	0	0	0	13,535	18,486	17,542	16,683	15,898	15,178	14,485	13,792	13,099	12,406	11,713	11,019	10,364	9,918	9,645	9,371	9,097	8,823	8,549	8,275
Retire TY GR CR and BR1-2	163	0	0	0	15,957	22,021	20,895	19,869	18,930	18,067	17,236	16,405	15,574	14,743	13,912	13,081	12,288	11,741	11,404	11,066	10,728	10,391	10,053	9,715
Water Capital Delta																								
No Retirements																								
Retire TY	-6	0	0	0	-586	-837	-792	-751	-713	-679	-645	-611	-577	-544	-510	-476	-452	-438	-423	-409	-395	-380	-366	-352
Retire TY and GR3	-6	0	0	0	-586	-837	-792	-751	-713	-679	-645	-611	-577	-544	-510	-476	-452	-438	-423	-409	-395	-380	-366	-352
Retire TY GR3 and BR3	-23	0	0	0	-2,279	-3,060	-2,897	-2,749	-2,616	-2,496	-2,377	-2,258	-2,140	-2,021	-1,902	-1,784	-1,703	-1,660	-1,617	-1,574	-1,531	-1,488	-1,445	-1,402
Retire TY GR3 and CR4	-10	0	0	0	-980	-1,582	-1,494	-1,413	-1,339	-1,269	-1,201	-1,132	-1,064	-996	-927	-859	-806	-770	-735	-699	-663	-627	-591	0
Retire TY GR3 CR4 and CR6	-16	0	0	0	-1,518	-2,449	-2,313	-2,188	-2,073	-1,966	-1,860	-1,754	-1,647	-1,541	-1,435	-1,329	-1,249	-1,193	-1,137	-1,082	-1,026	-970	-915	0
Retire TY GR3 CR4 CR6 and BR1-2	-15	0	0	0	-1,468	-1,971	-1,866	-1,771	-1,686	-1,608	-1,531	-1,455	-1,378	-1,302	-1,226	-1,149	-1,097	-1,069	-1,042	-1,014	-986	-959	-931	-903
Retire TY GR3 and CR	-11	0	0	0	-1,062	-1,715	-1,619	-1,532	-1,451	-1,376	-1,302	-1,227	-1,153	-1,079	-1,005	-931	-874	-835	-796	-757	-718	-679	-640	0
Retire TY GR3 CR and GH3	-15	0	0	0	-1,477	-1,975	-1,876	-1,786	-1,703	-1,628	-1,556	-1,484	-1,411	-1,339	-1,267	-1,195	-1,123	-1,073	-1,046	-1,019	-992	-965	-938	-911
Retire TY GR3 CR and GH1	-15	0	0	0	-1,462	-1,954	-1,856	-1,767	-1,686	-1,611	-1,540	-1,468	-1,397	-1,325	-1,254	-1,183	-1,111	-1,062	-1,035	-1,008	-982	-955	-928	-901
Retire TY GR and CR	-8	0	0	0	-819	-1,169	-1,106	-1,049	-996	-948	-901	-854	-807	-759	-712	-665	-631	-611	-591	-571	-551	-531	-511	-491
Retire TY GR CR and MC4	-20	0	0	0	-1,913	-2,792	-2,648	-2,516	-2,394	-2,281	-2,172	-2,064	-1,955	-1,846	-1,737	-1,628	-1,519	-1,440	-1,389	-1,339	-1,288	-1,238	-1,187	-1,137
Retire TY GR CR and TC1	-8	0	0	0	-770	-1,008	-958	-912	-871	-833	-797	-760	-724	-688	-652	-616	-579	-555	-542	-529	-517	-504	-491	-479
Retire TY GR CR and GH4	-15	0	0	0	-1,474	-1,971	-1,872	-1,782	-1,700	-1,625	-1,553	-1,481	-1,409	-1,337	-1,265	-1,193	-1,121	-1,071	-1,044	-1,017	-990	-963	-936	-909
Retire TY GR CR and MC3	-16	0	0	0	-1,568	-2,289	-2,171	-2,063	-1,963	-1,870	-1,781	-1,692	-1,602	-1,513	-1,424	-1,335	-1,245	-1,180	-1,139	-1,097	-1,056	-1,015	-973	-932
Retire TY GR CR and GH2	-15	0	0	0	-1,489	-1,991	-1,891	-1,800	-1,718	-1,642	-1,569	-1,496	-1,423	-1,350	-1,278	-1,205	-1,132	-1,082	-1,055	-1,028	-1,000	-973	-946	-918
Retire TY GR CR and MC1-2	-25	0	0	0	-2,422	-3,536	-3,354	-3,186	-3,032	-2,889	-2,751	-2,613	-2,475	-2,337	-2,200	-2,062	-1,924	-1,823	-1,759	-1,695	-1,631	-1,567	-1,504	-1,440
Retire TY GR CR BR1-2 and MC1-2	-40	0	0	0	-3,890	-5,507	-5,220	-4,957	-4,717	-4,497	-4,282	-4,068	-3,854	-3,639	-3,425	-3,211	-3,021	-2,892	-2,801	-2,709	-2,618	-2,526	-2,434	-2,343
Retire TY GR CR and BR1-2	-15	0	0	0	-1,468	-1,971	-1,866	-1,771	-1,686	-1,608	-1,531	-1,455	-1,378	-1,302	-1,226	-1,149	-1,097	-1,069	-1,042	-1,014	-986	-959	-931	-903
Total Capital																								
No Retirements	7,324	11,645	80,960	223,239	417,024	556,928	647,904	670,624	650,837	634,544	620,691	609,718	634,348	665,478	684,757	681,756	671,072	666,204	691,091	727,814	735,732	714,783	715,721	741,119
Retire TY	7,316	11,645	79,637	224,282	446,948	588,592	677,458	656,023	636,868	621,158	607,850	597,389	622,388	653,762	673,285	670,457	659,867	657,065	695,920	747,601	766,431	748,991	740,957	712,762
Retire TY and GR3	7,377	11,645	78,314	220,134	440,655	582,356	671,236	650,043	631,104	615,605	608,678	635,310	662,523	680,369	672,754	656,959	654,121	694,629	736,299	772,362	759,641	727,162	719,913	694,746
Retire TY GR3 and BR3	7,481	11,645	78,110	217,280	430,781	565,859	650,261	635,256	656,313	684,056	701,918	692,385	668,349	653,540	680,913	715,476	743,144	742,077	724,349	715,874	697,632	722,902	779,383	790,092
Retire TY GR3 and CR4	7,126	10,323	70,142	195,449	394,159	537,620	627,450	608,354	591,656	583,802	614,123	644,633	660,819	653,937	635,436	629,152	669,279	713,424	740,733	746,886	720,404	705,933	707,675	733,288
Retire TY GR3 CR4 and CR6	6,843	7,890	58,391	161,563	333,195	478,744	567,262	556,628	583,097	614,296	635,288	629,868	611,097	601,469	632,967	673,185	702,315	703,376	687,721	681,314	665,241	708,807	763,854	796,841
Retire TY GR3 CR4 CR6 and BR1-2	6,844	7,401	51,885	145,958	305,152	454,483	580,160	605,822	622,624	618,136	603,318	593,823	621,259	653,625	674,738	672,672	660,149	648,472	639,846	673,291	691,687	711,124	715,871	711,043
Retire TY GR3 and CR	6,623	6,564	49,627	135,151	283,202	430,646	525,779	550,829	581,543	602,060	599,652	584,447	573,475	592,887	615,810	634,458	633,776	631,186	670,111	721,789	758,848	757,463	747,985	739,807
Retire TY GR3 CR and GH3	6,726	6,449	49,062	135,193	312,523	489,024	593,996	586,070	569,916	561,006	589,671	620,572	638,703	632,628	614,200	600,720	595,646	634,831	675,636	710,151	714,097	697,242	697,489	742,406
Retire TY GR3 CR and GH1	6,771	6,377	44,734	129,178	303,578	487,893	597,530	589,588	573,346	564,419	593,104	624,027	642,176	636,120	617,718	611,013	647,223	688,485	713,811	717,461	706,652	690,479	691,353	736,850
Retire TY GR and CR	6,684	6,564	47,742	129,241	273,631	426,657	554,455	581,658	600,576	597,261	583,605	575,540	604,896	639,366	661,930	662,462	650,616	639,827	632,075	666,396	703,705	722,777	725,562	721,175
Retire TY GR CR and MC4	6,574	5,702	35,032	107,759	275,247	447,621	563,631	557,830	549,684	578,228	611,093	631,179	625,323	608,847	593,603	590,802	630,535	673,947	700,252	705,387	695,986	681,109	683,335	730,355
Retire TY GR CR and TC1	6,874	6,564	47,742	132,232	308,653	488,705	600,030	592,790	577,609	569,978	599,836	631,886	650,936	645,801	628,913	624,521	663,249	706,240	732,135	734,189	721,547	706,250	704,051	751,057
Retire TY GR CR and GH4	6,751	6,442	47,215	130,615	304,078	482,790	585,035	577,627	567,733	594,298	625,202	643,326	635,727	617,476	599,861	594,053	631,242	673,284	699,005	702,798	692,132	684,199	733,608	781,871
Retire TY GR CR and MC3	6,743	6,564	46,363	125,042	296,160	473,852	584,730	577,859	563,080	555,767	585,945	618,324	637,711	632,924	616,387	612,325	651,259	694,315	720,230	724,965	715,164	699,888	701,715	748,337
Retire TY GR CR and GH2	6,762	6,552	44,231	126,167	297,728	480,499	589,688	581,931	571,721	598,022	628,738	646,709	638,960	620,559	602,787	596,804	633,610	675,068	700,453	704,153	693,394	685,369	734,685	782,854
Retire TY GR CR and MC1-2	6,442	6,564	40,536	109,522	268,381	414,445	521,146	523,335	551,476	583,660	605,497	601,920	585,627	578,033	611,518	653,750	682,380	682,017	664,881	656,987	649,565	644,661	696,919	747,847
Retire TY GR CR BR1-2 and MC1-2	6,402	6,074	34,030	93,917	240,337	384,731	495,994	532,711	563,331	584,002	581,617	567,169	558,852	590,813	627,763	655,646	655,961	642,214	631,510	662,916	697,487	715,448	719,751	713,867
Retire TY GR CR and BR1-2	6,665	6,074	41,236	118,827	287,125	471,965	588,900	582,359	567,330	554,093	548,033	578,644	611,615	633,035	629,406	616,867	613,221	653,503	694,860	730,591	735,678	720,190	715,065	711,658

Total Capital Delta

10/17/2011

AESC Gas Prices (Nominal $)

Discount Rate: 6.71%

	$M NPVRR	$000 2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
No Retirements																								
Retire TY	-8	0	-1,323	1,043	29,924	31,664	29,554	-14,601	-13,969	-13,386	-12,841	-12,330	-11,960	-11,716	-11,473	-11,299	-11,205	-9,138	4,829	19,786	30,699	34,208	25,236	-28,357
Retire TY and GR3	61	0	-1,323	-4,148	-6,293	-6,236	-6,222	-5,981	-5,764	-5,553	828	37,921	40,135	26,607	-531	-13,498	-5,746	37,564	40,378	24,762	-6,790	-21,829	-21,044	-18,016
Retire TY GR3 and BR3	104	0	-204	-2,854	-9,874	-16,498	-20,975	-14,787	25,208	68,451	93,239	57,075	5,826	-26,829	8,159	58,518	89,023	47,448	-11,949	-56,488	-62,009	-4,260	59,470	95,347
Retire TY GR3 and CR4	-251	-1,322	-8,171	-24,685	-46,496	-44,737	-43,785	-41,689	-39,449	-31,803	5,445	9,323	-1,703	-26,431	-37,318	-27,807	15,158	18,795	4,435	-25,476	-39,237	-21,229	-12,238	38,542
Retire TY GR3 CR4 and CR6	-283	-2,432	-11,751	-33,887	-60,964	-58,876	-60,189	-51,726	-8,559	30,494	21,165	-14,765	-49,722	-52,468	-2,469	44,033	33,035	-10,048	-53,012	-65,572	-55,163	2,874	56,179	63,553
Retire TY GR3 CR4 CR6 and BR1-2	1	-489	-6,506	-15,605	-28,043	-24,261	12,899	49,194	39,528	3,840	-31,970	-36,045	10,162	52,156	41,771	-512	-42,166	-54,904	-47,875	-8,023	26,446	2,317	-47,983	-85,799
Retire TY GR3 and CR	-220	-1,326	-8,764	-26,412	-49,993	-48,098	-41,483	-5,799	-1,554	-12,236	-35,636	-45,421	-37,623	-8,582	-17,158	-38,727	-68,539	-72,190	-17,610	40,475	93,607	48,656	-15,869	-57,035
Retire TY GR3 CR and GH3	104	-115	-565	42	29,321	58,378	68,218	35,242	-11,627	-41,054	-9,981	36,126	65,228	39,741	-1,610	-33,738	-38,130	3,645	5,526	-11,639	-44,751	-60,221	-50,496	2,599
Retire TY GR3 CR and GH1	149	-186	-4,894	-5,973	20,376	57,247	71,751	38,759	-8,197	-37,642	-6,548	39,580	68,702	43,233	1,908	-23,445	13,448	57,299	43,701	-4,328	-52,196	-66,984	-56,632	-2,957
Retire TY GR and CR	62	0	-1,885	-5,910	-9,571	-3,989	28,676	30,830	19,033	-4,800	-16,046	-8,907	31,422	46,479	46,121	28,004	16,840	8,641	-38,035	-55,394	-55,143	-34,686	-22,423	-18,632
Retire TY GR CR and MC4	-111	-862	-12,710	-21,482	1,617	20,964	9,176	-23,829	-50,892	-19,032	27,488	55,639	20,426	-30,519	-68,327	-71,660	-20,081	34,120	68,176	38,991	-7,719	-41,669	-42,227	9,180
Retire TY GR CR and TC1	190	0	0	2,991	35,022	62,048	45,576	11,131	-22,967	-27,283	16,230	56,346	46,039	6,436	-33,017	-37,941	12,633	66,413	100,059	67,794	17,843	-16,527	-21,511	29,882
Retire TY GR CR and GH4	67	-122	-527	1,374	30,448	56,133	30,581	-4,031	-32,843	-2,963	41,597	67,787	30,831	-21,889	-62,069	-68,408	-19,374	33,456	66,929	36,402	-11,572	-38,578	8,046	60,696
Retire TY GR CR and MC3	59	0	-1,379	-4,199	22,529	47,195	30,275	-3,799	-37,496	-41,493	2,340	42,784	32,815	-6,442	-45,543	-50,136	643	54,487	88,155	58,569	11,460	-22,889	-23,846	27,162
Retire TY GR CR and GH2	78	-11	-3,511	-3,074	24,097	53,842	35,233	273	-28,856	761	45,132	71,170	34,064	-18,807	-59,143	-65,657	-17,006	35,241	68,378	37,757	-10,310	-37,408	9,124	61,679
Retire TY GR CR and MC1-2	-242	0	-7,206	-19,719	-5,250	-12,212	-33,309	-58,323	-49,100	-13,600	21,891	26,380	-19,269	-61,332	-50,412	-8,712	31,764	42,189	32,806	-9,409	-54,140	-78,117	-28,642	26,673
Retire TY GR CR BR1-2 and MC1-2	-282	-489	-13,712	-35,324	-33,293	-41,926	-58,461	-48,948	-37,245	-13,259	-1,988	-8,370	-46,044	-48,552	-34,167	-6,816	5,345	2,386	-566	-3,480	-6,217	-7,329	-5,810	-7,308
Retire TY GR CR and BR1-2	-19	-489	-6,506	-10,414	13,494	45,308	34,445	701	-33,247	-43,168	-35,573	3,105	6,719	-6,330	-32,524	-45,595	-37,395	13,676	62,785	64,195	31,973	-2,587	-10,496	-9,517
Retirement O&M Cost																								
No Retirements	0																							
Retire TY	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and GR3	3	0	0	0	0	0	4,200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and BR3	5	0	0	0	0	0	6,300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR4	5	0	0	0	0	0	6,300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 and CR6	6	0	0	0	0	0	8,400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 CR6 and BR1-2	9	0	0	0	0	0	12,600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR	8	0	0	0	0	0	10,500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH3	9	0	0	0	0	0	12,600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH1	9	0	0	0	0	0	12,600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR	9	0	0	0	0	0	12,600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC4	11	0	0	0	0	0	14,700	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and TC1	11	0	0	0	0	0	14,700	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH4	11	0	0	0	0	0	14,700	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC3	11	0	0	0	0	0	14,700	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH2	11	0	0	0	0	0	14,700	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC1-2	12	0	0	0	0	0	16,800	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR BR1-2 and MC1-2	15	0	0	0	0	0	21,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and BR1-2	12	0	0	0	0	0	16,800	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retirement O&M Cost Delta																								
No Retirements																								
Retire TY	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and GR3	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and BR3	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR4	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 and CR6	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 CR6 and BR1-2	3	0	0	0	0	0	4,200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH3	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH1	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC4	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and TC1	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH4	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC3	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH2	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC1-2	3	0	0	0	0	0	4,200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR BR1-2 and MC1-2	6	0	0	0	0	0	8,400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and BR1-2	3	0	0	0	0	0	4,200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Existing Unit Fixed O&M																								
No Retirements	3,421	214,901	219,007	210,243	214,448	218,737	223,112	227,574	232,125	236,768	241,503	246,333	251,260	256,285	261,411	266,639	271,972	277,411	282,959	288,619	294,391	300,279	306,284	312,410
Retire TY	3,416	214,901	219,007	210,243	214,448	218,737	222,668	227,121	231,663	236,297	241,023	245,843	250,760	255,775	260,891	266,108	271,431	276,859	282,396	288,044	293,805	299,681	305,675	311,788
Retire TY and GR3	3,365	214,901	219,007	210,243	214,448	218,737	218,041	222,402	226,850	231,387	236,015	240,735	245,550	250,461	255,470	260,579	265,791	271,107	276,529	282,059	287,701	293,455	299,324	305,310
Retire TY GR3 and BR3	3,190	214,901	219,007	210,243	214,448	218,737	202,225	206,270	210,395	214,603	218,895	223,273	227,738	232,293	236,939	241,678	246,511	251,442	256,470	261,600	266,832	272,169	277,612	283,164
Retire TY GR3 and CR4	3,224	214,901	219,007	210,243	214,448	218,737	205,276	209,382	213,569	217,841	222,197	226,641	231,174	235,798	240,514	245,324	250,230	255,235	260,340	265,547	270,857	276,275	281,800	287,436
Retire TY GR3 CR4 and CR6	3,104	214,901	219,007	210,243	214,448	218,737	194,481	198,370	202,338	206,385	210,512	214,722	219,017	223,397	227,865	232,423	237,071	241,812	246,649	251,582	256,613	261,745	266,980	272,320
Retire TY GR3 CR4 CR6 and BR1-2	2,972	214,901	219,007	210,243	214,448	218,737	182,572	186,223	189,948	193,747	197,621	201,574	205,605	209,717	213,912	218,190	222,554	227,005	231,545	236,176	240,899	245,717	250,632	255,644
Retire TY GR3 and CR	2,954	214,901	219,007	210,243	214,448	218,737	180,907	184,525	188,216	191,980	195,819	199,736	203,731	207,805	211,961	216,200	220,524	224,935	229,434	234,022	238,703	243,477	248,346	253,313
Retire TY GR3 CR and GH3	2,807	214,901	219,007	210,243	214,448	218,737	167,668	171,022	174,442	177,931	181,490	185,119	188,822	192,598	196,450	200,379	204,387	208,475	212,644	216,897	221,235	225,660	230,175	234,776
Retire TY GR3 CR and GH1	2,743	214,901	219,007	210,243	214,448	218,737	161,842	165,078	168,380	171,748	175,183	178,686	182,260	185,905	189,623	193,416	197,284	201,230	205,254	209,359	213,547	217,818	222,174	226,617
Retire TY GR and CR	*2,852*	*214,901*	*219,007*	*210,243*	*214,448*	*218,737*	*171,746*	*175,181*	*178,684*	*182,258*	*185,903*	*189,621*	*193,414*	*197,282*	*201,227*	*205,252*	*209,357*	*213,544*	*217,815*	*222,171*	*226,615*	*231,147*	*235,770*	*240,485*

10/17/2011

Discount Rate: 6.71%

AESC Gas Prices (Nominal $)

	$M NPVRR	$000 2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Retire TY GR CR and MC4	2,650	214,901	219,007	210,243	214,448	218,737	153,445	156,514	159,644	162,837	166,094	169,416	172,804	176,260	179,786	183,381	187,049	190,790	194,606	198,498	202,468	206,517	210,647	214,860
Retire TY GR CR and TC1	2,648	214,901	219,007	210,243	214,448	218,737	153,278	156,343	159,470	162,660	165,913	169,231	172,616	176,068	179,589	183,181	186,845	190,582	194,393	198,281	202,247	206,292	210,418	214,626
Retire TY GR CR and GH4	2,710	214,901	219,007	210,243	214,448	218,737	158,900	162,078	165,319	168,625	171,998	175,438	178,947	182,526	186,176	189,900	193,698	197,572	201,523	205,554	209,665	213,858	218,135	222,498
Retire TY GR CR and MC3	2,650	214,901	219,007	210,243	214,448	218,737	153,470	156,540	159,671	162,864	166,121	169,444	172,833	176,289	179,815	183,411	187,079	190,821	194,637	198,530	202,501	206,551	210,682	214,896
Retire TY GR CR and GH2	2,695	214,901	219,007	210,243	214,448	218,737	157,494	160,644	163,857	167,134	170,477	173,886	177,364	180,911	184,530	188,220	191,985	195,824	199,741	203,736	207,810	211,966	216,206	220,530
Retire TY GR CR and MC1-2	2,525	214,901	219,007	210,243	214,448	218,737	142,170	145,013	147,914	150,872	153,889	156,967	160,106	163,308	166,575	169,906	173,304	176,770	180,306	183,912	187,590	191,342	195,169	199,072
Retire TY GR CR BR1-2 and MC1-2	2,393	214,901	219,007	210,243	214,448	218,737	130,261	132,866	135,523	138,234	140,998	143,818	146,695	149,629	152,621	155,674	158,787	161,963	165,202	168,506	171,876	175,314	178,820	182,397
Retire TY GR CR and BR1-2	2,720	214,901	219,007	210,243	214,448	218,737	159,837	163,033	166,294	169,620	173,012	176,473	180,002	183,602	187,274	191,020	194,840	198,737	202,711	206,766	210,901	215,119	219,421	223,810
Existing Unit Fixed O&M Delta																								
No Retirements																								
Retire TY	-5	0	0	0	0	0	-444	-453	-462	-471	-480	-490	-500	-510	-520	-530	-541	-552	-563	-574	-586	-597	-609	-622
Retire TY and GR3	-51	0	0	0	0	0	-4,627	-4,719	-4,813	-4,910	-5,008	-5,108	-5,210	-5,314	-5,421	-5,529	-5,640	-5,753	-5,868	-5,985	-6,105	-6,227	-6,351	-6,478
Retire TY GR3 and BR3	-175	0	0	0	0	0	-15,816	-16,132	-16,455	-16,784	-17,120	-17,462	-17,811	-18,167	-18,531	-18,901	-19,279	-19,665	-20,058	-20,460	-20,869	-21,286	-21,712	-22,146
Retire TY GR3 and CR4	-141	0	0	0	0	0	-12,765	-13,020	-13,281	-13,546	-13,817	-14,094	-14,375	-14,663	-14,956	-15,255	-15,560	-15,872	-16,189	-16,513	-16,843	-17,180	-17,524	-17,874
Retire TY GR3 CR4 and CR6	-120	0	0	0	0	0	-10,795	-11,011	-11,231	-11,456	-11,685	-11,919	-12,157	-12,400	-12,648	-12,901	-13,159	-13,423	-13,691	-13,965	-14,244	-14,529	-14,820	-15,116
Retire TY GR3 CR4 CR6 and BR1-2	-132	0	0	0	0	0	-11,909	-12,147	-12,390	-12,638	-12,891	-13,149	-13,412	-13,680	-13,953	-14,232	-14,517	-14,807	-15,104	-15,406	-15,714	-16,028	-16,349	-16,676
Retire TY GR3 and CR	-150	0	0	0	0	0	-13,574	-13,845	-14,122	-14,405	-14,693	-14,987	-15,286	-15,592	-15,904	-16,222	-16,546	-16,877	-17,215	-17,559	-17,910	-18,269	-18,634	-19,007
Retire TY GR3 CR and GH3	-147	0	0	0	0	0	-13,238	-13,503	-13,773	-14,049	-14,330	-14,616	-14,909	-15,207	-15,511	-15,821	-16,138	-16,460	-16,790	-17,125	-17,468	-17,817	-18,174	-18,537
Retire TY GR3 CR and GH1	-211	0	0	0	0	0	-19,065	-19,447	-19,835	-20,232	-20,637	-21,050	-21,471	-21,900	-22,338	-22,785	-23,240	-23,705	-24,179	-24,663	-25,156	-25,659	-26,172	-26,696
Retire TY GR and CR	-101	0	0	0	0	0	-9,161	-9,344	-9,531	-9,722	-9,916	-10,115	-10,317	-10,523	-10,734	-10,949	-11,167	-11,391	-11,619	-11,851	-12,088	-12,330	-12,576	-12,828
Retire TY GR CR and MC4	-203	0	0	0	0	0	-18,300	-18,666	-19,040	-19,421	-19,809	-20,205	-20,609	-21,021	-21,442	-21,871	-22,308	-22,754	-23,209	-23,674	-24,147	-24,630	-25,123	-25,625
Retire TY GR CR and TC1	-205	0	0	0	0	0	-18,468	-18,837	-19,214	-19,598	-19,990	-20,390	-20,798	-21,214	-21,638	-22,071	-22,512	-22,962	-23,422	-23,890	-24,368	-24,855	-25,352	-25,859
Retire TY GR CR and GH4	-142	0	0	0	0	0	-12,846	-13,103	-13,365	-13,632	-13,905	-14,183	-14,467	-14,756	-15,051	-15,352	-15,659	-15,973	-16,292	-16,618	-16,950	-17,289	-17,635	-17,988
Retire TY GR CR and MC3	-202	0	0	0	0	0	-18,275	-18,641	-19,014	-19,394	-19,782	-20,177	-20,581	-20,993	-21,412	-21,841	-22,278	-22,723	-23,178	-23,641	-24,114	-24,596	-25,088	-25,590
Retire TY GR CR and GH2	-158	0	0	0	0	0	-14,251	-14,536	-14,827	-15,124	-15,426	-15,735	-16,049	-16,370	-16,698	-17,032	-17,372	-17,720	-18,074	-18,436	-18,804	-19,181	-19,564	-19,955
Retire TY GR CR and MC1-2	-328	0	0	0	0	0	-29,576	-30,167	-30,771	-31,386	-32,014	-32,654	-33,307	-33,973	-34,653	-35,346	-36,053	-36,774	-37,509	-38,259	-39,025	-39,805	-40,601	-41,413
Retire TY GR CR BR1-2 and MC1-2	-460	0	0	0	0	0	-41,485	-42,315	-43,161	-44,024	-44,905	-45,803	-46,719	-47,653	-48,606	-49,578	-50,570	-51,581	-52,613	-53,665	-54,738	-55,833	-56,950	-58,089
Retire TY GR CR and BR1-2	-132	0	0	0	0	0	-11,909	-12,147	-12,390	-12,638	-12,891	-13,149	-13,412	-13,680	-13,953	-14,232	-14,517	-14,807	-15,104	-15,406	-15,714	-16,028	-16,349	-16,676
New Controls Fixed O&M																								
No Retirements	426	0	8	123	4,486	12,567	37,131	37,913	38,710	39,524	40,353	41,199	42,023	42,864	43,721	44,595	45,487	46,397	47,325	48,271	49,237	50,222	51,226	52,251
Retire TY	383	0	8	123	4,486	12,567	33,231	33,935	34,653	35,385	36,132	36,893	37,631	38,384	39,152	39,935	40,733	41,548	42,379	43,227	44,091	44,973	45,872	46,790
Retire TY and GR3	340	0	8	123	4,486	12,567	29,332	29,957	30,595	31,246	31,910	32,588	33,239	33,904	34,582	35,274	35,979	36,699	37,433	38,182	38,945	39,724	40,519	41,329
Retire TY GR3 and BR3	327	0	8	123	4,486	11,499	28,243	28,847	29,462	30,091	30,732	31,385	32,013	32,653	33,306	33,973	34,652	35,345	36,052	36,773	37,508	38,259	39,024	39,804
Retire TY GR3 and CR4	298	0	8	123	4,486	12,567	25,497	26,046	26,606	27,177	27,760	28,354	28,921	29,499	30,089	30,691	31,305	31,931	32,570	33,221	33,886	34,563	35,255	35,960
Retire TY GR3 CR4 and CR6.	243	0	8	123	4,486	12,567	20,527	20,977	21,435	21,903	22,380	22,867	23,324	23,791	24,267	24,752	25,247	25,752	26,267	26,792	27,328	27,875	28,432	29,001
Retire TY GR3 CR4 CR6 and BR1-2	222	0	8	123	2,960	10,953	18,881	19,298	19,723	20,156	20,598	21,049	21,470	21,900	22,338	22,784	23,240	23,705	24,179	24,663	25,156	25,659	26,172	26,696
Retire TY GR3 and CR	198	0	8	123	4,486	12,567	16,481	16,850	17,226	17,609	18,000	18,399	18,767	19,143	19,526	19,916	20,314	20,721	21,135	21,558	21,989	22,429	22,877	23,335
Retire TY GR3 CR and GH3	182	0	8	123	4,486	11,914	15,150	15,492	15,841	16,197	16,560	16,930	17,269	17,614	17,966	18,326	18,692	19,066	19,447	19,836	20,233	20,638	21,050	21,471
Retire TY GR3 CR and GH1	181	0	8	123	3,188	11,248	15,136	15,477	15,826	16,181	16,544	16,914	17,252	17,597	17,949	18,308	18,675	19,048	19,429	19,818	20,214	20,618	21,031	21,451
Retire TY GR and CR	142	0	8	123	4,486	12,567	11,459	11,728	12,001	12,280	12,565	12,855	13,112	13,375	13,642	13,915	14,193	14,477	14,767	15,062	15,363	15,670	15,984	16,304
Retire TY GR CR and MC4	123	0	8	123	3,739	11,012	9,874	10,110	10,352	10,598	10,849	11,105	11,327	11,553	11,784	12,020	12,261	12,506	12,756	13,011	13,271	13,537	13,807	14,084
Retire TY GR CR and TC1	131	0	8	123	4,486	12,073	10,452	10,700	10,953	11,211	11,475	11,743	11,978	12,218	12,462	12,711	12,965	13,225	13,489	13,759	14,034	14,315	14,601	14,893
Retire TY GR CR and GH4	127	0	8	123	4,486	11,935	10,170	10,413	10,660	10,912	11,170	11,432	11,661	11,894	12,132	12,374	12,622	12,874	13,132	13,395	13,662	13,936	14,214	14,499
Retire TY GR CR and MC3	126	0	8	99	4,449	11,882	10,102	10,343	10,589	10,839	11,095	11,356	11,583	11,815	12,051	12,292	12,538	12,789	13,045	13,306	13,572	13,843	14,120	14,402
Retire TY GR CR and GH2	121	0	0	24	3,608	10,878	9,737	9,970	10,209	10,452	10,700	10,953	11,172	11,396	11,624	11,856	12,093	12,335	12,562	12,833	13,090	13,352	13,619	13,891
Retire TY GR CR and MC1-2	105	0	8	123	4,486	9,706	8,474	8,643	8,816	8,992	9,172	9,356	9,543	9,734	9,928	10,127	10,329	10,536	10,747	10,962	11,181	11,405	11,633	11,865
Retire TY GR CR BR1-2 and MC1-2	84	0	8	123	2,960	8,092	6,828	6,964	7,103	7,245	7,390	7,538	7,689	7,843	8,000	8,160	8,323	8,489	8,659	8,832	9,009	9,189	9,373	9,560
Retire TY GR CR and BR1-2	121	0	8	123	2,960	10,953	9,813	10,048	10,288	10,533	10,783	11,038	11,258	11,484	11,713	11,948	12,186	12,430	12,679	12,932	13,191	13,455	13,724	13,998
New Controls Fixed O&M Delta																								
No Retirements																								
Retire TY	-43	0	0	0	0	0	-3,900	-3,978	-4,057	-4,139	-4,221	-4,306	-4,392	-4,480	-4,569	-4,661	-4,754	-4,849	-4,946	-5,045	-5,146	-5,249	-5,354	-5,461
Retire TY and GR3	-43	0	0	0	0	0	-3,900	-3,978	-4,057	-4,139	-4,221	-4,306	-4,392	-4,480	-4,569	-4,661	-4,754	-4,849	-4,946	-5,045	-5,146	-5,249	-5,354	-5,461
Retire TY GR3 and BR3	-13	0	0	0	0	-1,068	-1,089	-1,111	-1,133	-1,156	-1,179	-1,202	-1,226	-1,251	-1,276	-1,301	-1,327	-1,354	-1,381	-1,409	-1,437	-1,466	-1,495	-1,525
Retire TY GR3 and CR4	-42	0	0	0	0	0	-3,835	-3,911	-3,990	-4,069	-4,151	-4,234	-4,318	-4,405	-4,493	-4,583	-4,674	-4,768	-4,863	-4,960	-5,060	-5,161	-5,264	-5,369
Retire TY GR3 CR4 and CR6	-55	0	0	0	0	0	-4,970	-5,069	-5,171	-5,274	-5,379	-5,487	-5,597	-5,709	-5,823	-5,939	-6,058	-6,179	-6,303	-6,429	-6,557	-6,689	-6,822	-6,959
Retire TY GR3 CR4 CR6 and BR1-2	-21	0	0	0	-1,526	-1,614	-1,646	-1,679	-1,713	-1,747	-1,782	-1,818	-1,854	-1,891	-1,929	-1,967	-2,007	-2,047	-2,088	-2,130	-2,172	-2,216	-2,260	-2,305
Retire TY GR3 and CR	-45	0	0	0	0	0	-4,046	-4,127	-4,210	-4,294	-4,380	-4,467	-4,557	-4,648	-4,741	-4,836	-4,932	-5,031	-5,132	-5,234	-5,339	-5,446	-5,555	-5,666
Retire TY GR3 CR and GH3	-15	0	0	0	0	-652	-1,331	-1,358	-1,385	-1,412	-1,441	-1,469	-1,499	-1,529	-1,559	-1,591	-1,622	-1,655	-1,688	-1,722	-1,756	-1,791	-1,827	-1,864
Retire TY GR3 CR and GH1	-17	0	0	0	-1,298	-1,319	-1,345	-1,372	-1,400	-1,428	-1,456	-1,485	-1,515	-1,545	-1,576	-1,608	-1,640	-1,673	-1,706	-1,740	-1,775	-1,811	-1,847	-1,884
Retire TY GR and CR	-56	0	0	0	0	0	-5,022	-5,122	-5,224	-5,329	-5,435	-5,544	-5,655	-5,768	-5,884	-6,001	-6,121	-6,244	-6,369	-6,496	-6,626	-6,758	-6,894	-7,031
Retire TY GR CR and MC4	-19	0	0	0	-746	-1,554	-1,585	-1,617	-1,650	-1,683	-1,716	-1,750	-1,785	-1,821	-1,858	-1,895	-1,933	-1,971	-2,011	-2,051	-2,092	-2,134	-2,176	-2,220
Retire TY GR CR and TC1	-12	0	0	0	0	-494	-1,007	-1,027	-1,048	-1,069	-1,090	-1,112	-1,134	-1,157	-1,180	-1,204	-1,228	-1,252	-1,277	-1,303	-1,329	-1,356	-1,383	-1,410
Retire TY GR CR and GH4	-15	0	0	0	0	-632	-1,289	-1,315	-1,341	-1,368	-1,395	-1,423	-1,452	-1,481	-1,510	-1,540	-1,571	-1,603	-1,635	-1,667	-1,701	-1,735	-1,770	-1,805
Retire TY GR CR and MC3	-16	0	0	-24	-37	-684	-1,358	-1,385	-1,413	-1,441	-1,470	-1,499	-1,529	-1,560	-1,591	-1,623	-1,655	-1,688	-1,722	-1,756	-1,791	-1,827	-1,864	-1,901
Retire TY GR CR and GH2	-21	0	-8	-99	-878	-1,689	-1,723	-1,757	-1,792	-1,828	-1,865	-1,902	-1,940	-1,979	-2,019	-2,059	-2,100	-2,142	-2,185	-2,229	-2,273	-2,319	-2,365	-2,412
Retire TY GR CR and MC1-2	-37	0	0	0	0	-2,860	-2,986	-3,084	-3,185	-3,288	-3,393	-3,500	-3,570	-3,641	-3,714	-3,788	-3,864	-3,941	-4,020	-4,100	-4,182	-4,266	-4,351	-4,438
Retire TY GR CR BR1-2 and MC1-2	-58	0	0	0	-1,526	-4,474	-4,632	-4,764	-4,898	-5,035	-5,175	-5,317	-5,423	-5,532	-5,643	-5,755	-5,871	-5,988	-6,108	-6,230	-6,354	-6,482	-6,611	-6,743
Retire TY GR CR and BR1-2	-21	0	0	0	-1,526	-1,614	-1,646	-1,679	-1,713	-1,747	-1,782	-1,818	-1,854	-1,891	-1,929	-1,967	-2,007	-2,047	-2,088	-2,130	-2,172	-2,216	-2,260	-2,305
Total Revenue Requirements																								
No Retirements	33,030	1,140,009	1,293,389	1,480,192	1,769,931	2,013,107	2,246,017	2,255,315	2,315,504	2,393,788	2,443,495	2,525,585	2,665,833	2,754,627	2,762,072	2,815,012	2,926,955	2,940,739	3,071,789	3,176,570	3,262,632	3,279,646	3,357,009	3,515,726

AESC Gas Prices (Nominal $)

Discount Rate: 6.71%

	$M NPVRR	$000 2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Retire TY	32,997	1,140,009	1,292,066	1,481,235	1,796,678	2,042,305	2,234,104	2,237,695	2,298,758	2,379,007	2,430,885	2,517,240	2,660,466	2,754,599	2,753,468	2,802,624	2,919,594	2,934,645	3,082,782	3,205,028	3,292,215	3,304,151	3,369,469	3,468,914
Retire TY and GR3	32,968	1,140,009	1,290,743	1,477,087	1,787,534	2,033,542	2,222,909	2,224,841	2,286,569	2,368,826	2,428,490	2,556,308	2,704,842	2,726,819	2,722,199	2,784,120	2,914,432	2,972,381	3,127,157	3,180,406	3,254,128	3,278,230	3,345,985	3,451,025
Retire TY GR3 and BR3	33,491	1,140,009	1,290,539	1,474,233	1,777,660	2,011,743	2,215,305	2,231,614	2,339,519	2,487,410	2,527,661	2,592,993	2,678,694	2,714,450	2,784,506	2,919,535	3,026,643	3,037,375	3,123,165	3,185,490	3,283,030	3,383,842	3,534,056	3,622,521
Retire TY GR3 and CR4	32,819	1,138,687	1,282,572	1,452,403	1,740,703	1,988,420	2,176,328	2,179,574	2,245,358	2,343,850	2,444,924	2,592,318	2,667,943	2,682,530	2,692,865	2,768,268	2,964,842	3,023,327	3,112,181	3,160,977	3,235,574	3,281,909	3,361,103	3,533,114
Retire TY GR3 CR4 and CR6	32,811	1,136,255	1,270,821	1,418,516	1,681,324	1,931,791	2,130,469	2,144,901	2,262,367	2,417,551	2,457,524	2,522,955	2,616,680	2,655,066	2,726,024	2,871,164	3,016,334	2,993,256	3,081,106	3,147,560	3,239,895	3,348,733	3,505,735	3,629,821
Retire TY GR3 CR4 CR6 and BR1-2	33,044	1,135,766	1,264,315	1,402,911	1,648,316	1,900,419	2,175,699	2,234,506	2,300,637	2,371,425	2,421,617	2,505,577	2,655,629	2,749,699	2,767,803	2,839,460	2,957,776	2,977,229	3,083,150	3,203,191	3,351,748	3,374,012	3,462,962	3,615,620
Retire TY GR3 and CR	32,737	1,134,929	1,262,057	1,392,104	1,631,097	1,883,431	2,102,817	2,155,755	2,286,138	2,376,966	2,411,036	2,484,172	2,587,675	2,668,124	2,741,990	2,809,332	2,930,088	2,960,261	3,117,226	3,249,655	3,356,779	3,386,050	3,469,643	3,607,859
Retire TY GR3 CR and GH3	33,575	1,134,814	1,261,491	1,392,145	1,660,418	1,938,413	2,209,654	2,185,901	2,264,879	2,363,809	2,472,790	2,623,679	2,700,347	2,733,561	2,755,715	2,850,612	3,006,726	3,087,879	3,267,978	3,309,452	3,406,478	3,445,589	3,568,486	3,779,822
Retire TY GR3 CR and GH1	33,479	1,134,742	1,257,163	1,380,107	1,639,585	1,920,215	2,198,145	2,187,903	2,256,772	2,361,989	2,468,749	2,609,527	2,694,364	2,727,798	2,759,488	2,850,643	3,051,771	3,127,708	3,201,556	3,297,292	3,388,043	3,449,257	3,547,146	3,773,936
Retire TY GR and CR	32,671	1,134,929	1,260,172	1,386,194	1,616,218	1,873,177	2,133,478	2,190,667	2,262,259	2,332,127	2,384,486	2,468,271	2,614,237	2,714,927	2,730,865	2,809,370	2,922,567	2,945,152	3,052,144	3,163,051	3,340,597	3,356,973	3,447,108	3,593,776
Retire TY GR CR and MC4	33,401	1,134,067	1,247,461	1,364,712	1,615,049	1,875,440	2,181,569	2,161,876	2,241,926	2,389,623	2,504,598	2,579,732	2,657,337	2,712,924	2,742,695	2,853,169	3,043,973	3,146,788	3,218,464	3,302,393	3,376,774	3,461,710	3,561,753	3,797,822
Retire TY GR CR and TC1	33,581	1,134,929	1,260,172	1,389,184	1,651,240	1,933,464	2,210,655	2,181,226	2,263,528	2,363,700	2,476,837	2,628,768	2,701,473	2,731,973	2,767,323	2,851,943	3,066,049	3,141,047	3,242,611	3,297,475	3,405,383	3,446,871	3,562,603	3,756,822
Retire TY GR CR and GH4	33,697	1,134,806	1,259,644	1,387,568	1,646,666	1,928,285	2,218,123	2,188,527	2,269,315	2,415,931	2,529,311	2,600,668	2,677,535	2,729,086	2,760,185	2,864,919	3,073,357	3,162,425	3,239,518	3,289,829	3,411,079	3,469,059	3,636,429	3,856,557
Retire TY GR CR and MC3	33,345	1,134,929	1,258,792	1,379,695	1,635,131	1,912,804	2,183,100	2,164,157	2,239,842	2,332,945	2,452,597	2,602,989	2,679,399	2,710,491	2,746,064	2,839,934	3,040,603	3,111,682	3,220,097	3,282,046	3,387,971	3,433,365	3,548,528	3,755,610
Retire TY GR CR and GH2	33,686	1,134,917	1,256,526	1,381,527	1,636,262	1,910,658	2,217,512	2,195,141	2,277,680	2,408,412	2,536,515	2,603,595	2,690,390	2,732,037	2,769,418	2,865,225	3,056,240	3,163,200	3,241,841	3,310,798	3,406,430	3,478,933	3,630,951	3,838,370
Retire TY GR CR and MC1-2	33,546	1,134,929	1,252,965	1,366,474	1,610,968	1,843,912	2,187,786	2,145,942	2,273,112	2,429,370	2,467,827	2,547,062	2,646,562	2,707,985	2,802,571	2,961,381	3,107,205	3,097,993	3,206,345	3,289,257	3,402,463	3,477,138	3,647,015	3,888,656
Retire TY GR CR BR1-2 and MC1-2	33,969	1,134,439	1,246,459	1,350,869	1,578,175	1,807,265	2,280,920	2,205,219	2,351,139	2,422,435	2,449,694	2,539,510	2,657,044	2,774,318	2,901,471	2,954,294	3,082,731	3,109,568	3,236,136	3,373,057	3,548,890	3,580,534	3,686,751	3,866,270
Retire TY GR CR and BR1-2	32,909	1,134,439	1,253,666	1,375,779	1,624,962	1,911,445	2,158,535	2,145,373	2,215,936	2,306,580	2,373,996	2,512,862	2,677,926	2,699,906	2,715,947	2,798,158	2,941,863	3,019,178	3,191,710	3,245,875	3,348,309	3,398,568	3,493,054	3,652,158

Total Revenue Requirements Delta

	NPVRR	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
No Retirements																								
Retire TY	-32	0	-1,323	1,043	26,747	29,198	-11,914	-17,620	-16,746	-14,780	-12,611	-8,345	-5,367	-27	-8,604	-12,388	-7,361	-6,093	10,993	28,457	29,583	24,505	12,460	-46,812
Retire TY and GR3	-29	0	-1,323	-4,148	-9,144	-8,763	-11,195	-12,853	-12,189	-10,182	-2,394	39,068	44,377	-27,781	-31,269	-18,504	-5,163	37,736	44,375	-24,622	-38,087	-25,922	-23,485	-17,889
Retire TY GR3 and BR3	523	0	-204	-2,854	-9,874	-21,799	-7,604	6,773	52,950	118,584	99,171	36,685	-26,148	-12,368	62,307	135,416	112,211	64,994	-3,992	5,084	28,902	105,613	188,071	171,495
Retire TY GR3 and CR4	-149	-1,322	-8,171	-24,685	-46,831	-45,122	-46,581	-45,268	-41,211	-24,976	16,434	36,010	-36,900	-44,289	-29,334	-15,852	50,411	50,946	-14,976	-19,429	-18,554	3,679	15,118	82,089
Retire TY GR3 CR4 and CR6	-8	-2,432	-11,751	-33,887	-59,379	-56,629	-45,859	-34,673	17,008	73,701	12,600	-69,364	-51,263	-27,464	33,159	102,896	51,492	-30,071	-31,074	-13,418	4,321	66,824	144,632	96,707
Retire TY GR3 CR4 CR6 and BR1-2	234	-489	-6,506	-15,605	-33,009	-31,372	45,230	89,605	38,271	-46,126	-35,907	-17,378	38,949	94,633	41,779	-31,704	-58,558	-16,028	2,044	55,632	111,853	25,279	-42,772	-14,201
Retire TY GR3 and CR	-74	-1,326	-8,764	-26,412	-50,227	-48,360	-27,652	10,855	23,771	-40,585	-46,488	-38,783	-29,005	13,058	15,966	-61,833	-86,246	-32,996	36,120	102,095	116,885	37,316	-36,092	-21,963
Retire TY GR3 CR and GH3	838	-114	-565	41	29,321	54,981	106,837	30,146	-21,259	-13,157	61,753	139,508	112,672	65,437	13,725	41,280	76,638	127,618	150,752	59,798	49,698	59,539	98,843	171,963
Retire TY GR3 CR and GH1	742	-187	-4,894	-11,997	8,488	36,784	95,328	32,148	-29,366	-14,977	57,713	125,355	106,689	59,675	17,499	41,311	121,683	167,448	84,330	47,638	31,264	63,207	77,503	166,077
Retire TY GR and CR	-66	0	-1,885	-5,910	-14,879	-10,254	30,661	34,911	-23,878	-44,839	-26,550	-15,900	26,562	46,803	-11,125	38	-7,521	-15,109	-65,082	-86,603	-16,182	-29,077	-22,535	-14,083
Retire TY GR CR and MC4	730	-862	-12,710	-21,483	-1,168	2,263	48,091	-28,791	-20,333	57,496	120,112	111,460	43,100	-2,003	11,830	43,800	121,406	201,635	166,320	139,342	36,177	104,737	114,645	204,046
Retire TY GR CR and TC1	911	0	0	2,990	35,023	60,287	77,177	-9,441	1,268	31,573	92,350	160,497	87,236	17,046	36,458	42,573	143,482	195,895	190,466	134,424	64,786	89,898	115,495	163,047
Retire TY GR CR and GH4	1,026	-122	-527	1,374	30,448	55,108	84,646	-2,140	7,056	83,804	144,824	132,397	63,298	14,159	29,320	55,550	150,789	217,272	187,374	126,777	70,482	112,086	189,321	262,781
Retire TY GR CR and MC3	675	0	-1,380	-6,499	18,913	39,627	49,622	-26,510	-22,418	818	68,111	134,718	65,161	-4,436	15,199	30,565	118,035	166,530	167,952	118,995	47,374	76,392	101,421	161,834
Retire TY GR CR and GH2	1,015	-11	-3,645	-4,667	20,044	37,481	84,034	4,475	15,420	76,285	152,028	135,324	76,153	17,110	38,553	55,856	133,673	218,048	189,696	147,747	65,833	121,960	183,844	244,595
Retire TY GR CR and MC1-2	876	0	-7,206	-19,720	-5,250	-29,265	54,308	-44,725	10,853	97,243	83,340	78,791	32,325	-6,942	71,706	152,011	184,638	152,841	154,200	126,206	61,866	120,166	199,908	294,880
Retire TY GR CR BR1-2 and MC1-2	1,298	-489	-13,712	-35,325	-38,043	-65,912	147,442	14,552	88,880	90,308	65,207	71,239	42,807	59,391	170,606	144,924	160,163	164,416	183,991	210,006	208,293	223,561	239,643	272,494
Retire TY GR CR and BR1-2	239	-489	-6,506	-10,415	8,744	38,268	25,057	-45,294	-46,323	-25,547	-10,490	44,591	63,689	-15,020	-14,918	-11,211	19,296	74,025	139,566	82,824	7,712	41,596	45,947	58,383

Total Revenue Requirements Cumulative Delta

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
No Retirements																							
Retire TY	0	-1,323	-280	26,467	55,665	43,751	26,131	9,386	-5,395	-18,005	-26,351	-31,718	-31,745	-40,349	-52,737	-60,098	-66,191	-55,199	-26,741	2,841	27,346	39,807	-7,005
Retire TY and GR3	0	-1,323	-5,471	-14,615	-23,378	-34,573	-47,426	-59,615	-69,797	-72,191	-33,122	11,254	-16,527	-47,795	-66,299	-71,462	-33,726	10,648	-13,974	-52,061	-77,982	-101,467	-119,356
Retire TY GR3 and BR3	0	-204	-3,058	-12,933	-34,732	-42,335	-35,562	17,387	135,971	235,142	271,827	245,679	233,310	295,617	431,033	543,244	608,238	604,246	609,330	638,232	743,845	931,916	1,103,412
Retire TY GR3 and CR4	-1,322	-9,493	-34,178	-81,009	-126,131	-172,712	-217,979	-259,190	-284,166	-267,732	-231,722	-268,622	-312,910	-342,245	-358,096	-307,686	-256,739	-271,715	-291,144	-309,698	-306,018	-290,900	-208,811
Retire TY GR3 CR4 and CR6	-2,432	-14,184	-48,070	-107,449	-164,078	-209,936	-244,609	-227,601	-153,900	-141,300	-210,664	-261,926	-289,390	-256,231	-153,335	-101,843	-131,914	-162,988	-176,406	-172,085	-105,261	39,372	136,078
Retire TY GR3 CR4 CR6 and BR1-2	-489	-6,995	-22,601	-55,609	-86,982	-41,752	47,853	86,124	39,998	4,091	-13,287	25,662	120,295	162,074	130,370	71,811	55,784	57,828	113,459	225,313	250,591	207,819	193,618
Retire TY GR3 and CR	-1,326	-10,090	-36,502	-86,729	-135,089	-162,741	-151,887	-128,115	-168,700	-215,188	-253,971	-282,976	-269,918	-253,952	-315,785	-402,031	-435,027	-398,907	-296,812	-179,927	-142,611	-178,703	-200,665
Retire TY GR3 CR and GH3	-114	-680	-639	28,683	83,664	190,501	220,647	199,387	186,231	247,984	387,491	500,164	565,601	579,326	620,606	697,244	824,862	975,614	1,035,412	1,085,110	1,144,649	1,243,493	1,415,456
Retire TY GR3 CR and GH1	-187	-5,080	-17,078	-8,590	28,193	123,521	155,669	126,303	111,326	169,039	294,394	401,083	460,758	478,256	519,568	641,250	808,698	893,028	940,666	971,929	1,035,136	1,112,639	1,278,717
Retire TY GR and CR	0	-1,885	-7,795	-22,675	-32,929	-2,268	32,643	8,765	-36,074	-62,624	-78,525	-51,962	-5,160	-16,284	-16,246	-23,767	-38,875	-103,957	-190,561	-206,743	-235,820	-258,356	-272,438
Retire TY GR CR and MC4	-862	-13,572	-35,054	-36,223	-33,960	14,131	-14,660	-34,993	22,503	142,615	254,076	297,175	295,173	307,003	350,802	472,208	673,844	840,163	979,505	1,015,682	1,120,419	1,235,064	1,439,111
Retire TY GR CR and TC1	0	0	2,990	38,013	98,300	175,477	166,036	167,304	198,877	291,228	451,725	538,961	556,007	592,465	635,038	778,520	974,415	1,164,881	1,299,306	1,364,091	1,453,990	1,569,485	1,732,532
Retire TY GR CR and GH4	-122	-649	725	31,172	86,281	170,926	168,787	175,843	259,646	404,471	536,868	600,166	614,325	643,645	699,195	849,984	1,067,256	1,254,631	1,381,408	1,451,889	1,563,975	1,753,296	2,016,078
Retire TY GR CR and MC3	0	-1,380	-7,878	11,034	50,661	100,284	73,774	51,356	52,174	120,285	255,003	320,164	315,728	330,927	361,491	479,527	646,057	814,009	933,004	980,377	1,056,769	1,158,190	1,320,024
Retire TY GR CR and GH2	-11	-3,657	-8,324	11,720	49,201	133,235	137,710	153,130	229,415	381,443	516,767	592,920	610,030	648,583	704,439	838,112	1,056,159	1,245,856	1,393,603	1,459,436	1,581,396	1,765,240	2,009,834
Retire TY GR CR and MC1-2	0	-7,206	-26,926	-32,176	-61,441	-7,133	-51,857	-41,004	56,238	139,579	218,369	250,694	243,753	315,459	467,470	652,108	804,949	959,149	1,085,355	1,147,221	1,267,386	1,467,294	1,762,174
Retire TY GR CR BR1-2 and MC1-2	-489	-14,202	-49,527	-87,570	-153,482	-6,040	8,512	97,392	187,699	252,907	324,145	366,952	426,344	596,949	741,873	902,036	1,066,453	1,250,444	1,460,449	1,668,743	1,892,304	2,131,947	2,404,441
Retire TY GR CR and BR1-2	-489	-6,995	-17,411	-8,666	29,601	54,658	9,364	-36,959	-62,506	-72,996	-28,405	35,284	20,264	5,346	-5,865	13,430	87,456	227,022	309,845	317,558	359,153	405,100	463,483

Discount Rate:

	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058
New Unit Capital and Production Cost																									
No Retirements	2,876,210	2,981,491	3,039,086	3,104,128	3,256,820	3,275,435	3,458,283																		
Retire TY	2,812,292	2,969,109	3,032,348	3,106,973	3,263,923	3,284,072	3,472,480																		
Retire TY and GR3	2,830,625	3,009,099	3,073,920	3,148,994	3,301,037	3,319,893	3,499,493																		
Retire TY GR3 and BR3	2,983,362	3,094,807	3,166,397	3,258,523	3,449,037	3,507,921	3,675,948																		
Retire TY GR3 and CR4	2,949,579	3,059,379	3,116,503	3,190,894	3,353,966	3,371,267	3,573,931																		
Retire TY GR3 CR4 and CR6	2,996,424	3,106,999	3,184,178	3,265,821	3,439,596	3,511,885	3,711,143																		
Retire TY GR3 CR4 CR6 and BR1-2	3,096,980	3,297,661	3,371,032	3,451,885	3,614,901	3,659,986	3,866,244																		
Retire TY GR3 and CR	3,061,713	3,236,305	3,306,963	3,401,829	3,556,802	3,609,872	3,814,890																		
Retire TY GR3 CR and GH3	3,337,513	3,461,281	3,548,775	3,633,953	3,782,168	3,876,862	4,088,336																		
Retire TY GR3 CR and GH1	3,322,816	3,428,026	3,541,249	3,628,267	3,808,631	3,861,572	4,092,436																		
Retire TY GR and CR	3,091,395	3,293,818	3,360,317	3,455,886	3,605,434	3,657,860	3,857,025																		
Retire TY GR CR and MC4	3,365,723	3,497,385	3,567,911	3,683,006	3,815,629	3,923,978	4,130,615																		
Retire TY GR CR and TC1	3,341,798	3,457,354	3,553,320	3,633,331	3,820,107	3,867,935	4,106,236																		
Retire TY GR CR and GH4	3,351,223	3,488,127	3,545,614	3,678,691	3,845,614	3,923,502	4,141,389																		
Retire TY GR CR and MC3	3,326,581	3,428,994	3,538,794	3,625,169	3,804,995	3,856,773	4,089,315																		
Retire TY GR CR and GH2	3,353,614	3,493,795	3,580,093	3,672,189	3,856,842	3,916,052	4,110,606																		
Retire TY GR CR and MC1-2	3,393,373	3,525,825	3,613,384	3,734,486	3,927,358	4,022,879	4,244,341																		
Retire TY GR CR BR1-2 and MC1-2	3,505,061	3,730,268	3,809,878	3,931,754	4,116,529	4,183,823	4,414,066																		
Retire TY GR CR and BR1-2	3,188,312	3,399,149	3,469,140	3,565,643	3,731,273	3,788,272	3,996,078																		
Production Cost																									
No Retirements	2,489,682	2,559,933	2,618,019	2,700,944	2,870,995	2,905,118	3,101,669																		
Retire TY	2,469,001	2,591,022	2,631,946	2,710,919	2,885,224	2,920,957	3,123,216																		
Retire TY and GR3	2,484,718	2,610,725	2,640,427	2,716,924	2,886,870	2,921,746	3,116,883																		
Retire TY GR3 and BR3	2,573,908	2,702,088	2,788,665	2,895,329	3,091,237	3,144,090	3,314,116																		
Retire TY GR3 and CR4	2,558,071	2,633,647	2,692,197	2,784,092	2,962,831	2,995,328	3,212,763																		
Retire TY GR3 CR4 and CR6	2,586,970	2,714,280	2,806,446	2,902,627	3,081,796	3,148,054	3,349,311																		
Retire TY GR3 CR4 CR6 and BR1-2	2,705,118	2,854,259	2,893,158	2,975,948	3,158,728	3,221,659	3,443,901																		
Retire TY GR3 and CR	2,673,968	2,814,261	2,863,101	2,962,812	3,135,637	3,206,167	3,427,261																		
Retire TY GR3 CR and GH3	2,881,853	2,973,074	3,063,672	3,168,032	3,333,592	3,445,159	3,673,081																		
Retire TY GR3 CR and GH1	2,875,561	2,948,095	3,064,293	3,170,365	3,367,946	3,437,632	3,684,816																		
Retire TY GR and CR	2,699,533	2,850,416	2,882,443	2,979,949	3,149,261	3,219,533	3,434,682																		
Retire TY GR CR and MC4	2,924,783	3,023,661	3,095,774	3,228,566	3,378,361	3,503,411	3,726,325																		
Retire TY GR CR and TC1	2,894,543	2,977,423	3,076,364	3,175,429	3,379,422	3,443,995	3,698,616																		
Retire TY GR CR and GH4	2,869,202	3,009,210	3,085,487	3,235,561	3,419,021	3,513,032	3,746,845																		
Retire TY GR CR and MC3	2,879,326	2,949,063	3,061,839	3,167,267	3,364,310	3,432,833	3,681,695																		
Retire TY GR CR and GH2	2,871,593	3,014,878	3,119,966	3,229,059	3,430,249	3,505,582	3,716,062																		
Retire TY GR CR and MC1-2	2,933,238	3,067,191	3,171,969	3,309,778	3,510,157	3,601,539	3,826,694																		
Retire TY GR CR BR1-2 and MC1-2	3,047,088	3,222,461	3,269,305	3,394,825	3,601,069	3,689,296	3,938,574																		
Retire TY GR CR and BR1-2	2,786,658	2,946,576	2,982,997	3,082,473	3,267,556	3,342,124	3,567,016																		
Production Cost Delta																									
No Retirements																									
Retire TY	-20,681	31,089	13,927	9,975	14,229	15,840	21,548																		
Retire TY and GR3	15,718	19,703	8,481	6,004	1,646	789	-6,333																		
Retire TY GR3 and BR3	89,189	91,364	148,239	178,405	204,367	222,344	197,233																		
Retire TY GR3 and CR4	73,353	22,922	51,770	67,169	75,961	73,581	95,880																		
Retire TY GR3 CR4 and CR6	28,898	80,634	114,250	118,535	118,964	152,726	136,548																		
Retire TY GR3 CR4 CR6 and BR1-2	118,149	139,979	86,712	73,321	76,932	73,605	94,590																		
Retire TY GR3 and CR	86,998	99,981	56,655	60,185	53,842	58,113	77,950																		
Retire TY GR3 CR and GH3	207,886	158,813	200,571	205,220	197,954	238,991	245,820																		
Retire TY GR3 CR and GH1	201,593	133,834	201,193	207,554	232,309	231,465	257,555																		
Retire TY GR and CR	25,566	36,155	19,342	17,137	13,623	13,366	7,421																		
Retire TY GR CR and MC4	225,249	173,245	213,331	248,617	229,101	283,878	291,643																		
Retire TY GR CR and TC1	195,009	127,007	193,921	195,480	230,162	224,462	263,934																		
Retire TY GR CR and GH4	169,669	158,794	203,044	255,612	269,760	293,499	312,164																		
Retire TY GR CR and MC3	179,792	98,647	179,396	187,318	215,050	213,300	247,013																		
Retire TY GR CR and GH2	172,060	164,462	237,523	249,110	280,988	286,049	281,381																		
Retire TY GR CR and MC1-2	233,705	216,775	289,526	329,829	360,897	382,005	392,012																		
Retire TY GR CR BR1-2 and MC1-2	347,555	372,045	386,862	414,876	451,809	469,763	503,892																		
Retire TY GR CR and BR1-2	87,124	96,160	100,554	102,524	118,295	122,591	132,335																		
New Unit Capital																									
No Retirements	386,529	421,558	421,067	403,184	385,825	370,318	356,614																		
Retire TY	343,291	378,087	400,402	396,054	378,699	363,115	349,264																		
Retire TY and GR3	345,907	398,374	433,493	432,071	414,167	398,147	382,610																		
Retire TY GR3 and BR3	409,454	392,719	377,732	363,194	357,800	363,831	361,832																		
Retire TY GR3 and CR4	391,508	425,733	424,306	406,802	391,135	375,939	361,168																		
Retire TY GR3 CR4 and CR6	409,454	392,719	377,732	363,194	357,800	363,831	361,832																		
Retire TY GR3 CR4 CR6 and BR1-2	391,862	443,402	477,874	475,937	456,173	438,327	422,343																		
Retire TY GR3 and CR	387,745	422,044	443,862	439,017	421,165	403,705	387,629																		
Retire TY GR3 CR and GH3	455,660	488,207	485,103	465,921	448,576	431,703	415,255																		

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Discount Rate:

	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058
Retire TY GR3 CR and GH1	447,256	479,931	476,956	457,902	440,685	423,940	407,620																		
Retire TY GR and CR	391,862	443,402	477,874	475,937	456,173	438,327	422,343																		
Retire TY GR CR and MC4	440,940	473,724	472,137	454,440	437,268	420,567	404,290																		
Retire TY GR CR and TC1	447,256	479,931	476,956	457,902	440,685	423,940	407,620																		
Retire TY GR CR and GH4	482,021	478,917	460,127	443,130	426,593	410,470	394,544																		
Retire TY GR CR and MC3	447,256	479,931	476,956	457,902	440,685	423,940	407,620																		
Retire TY GR CR and GH2	482,021	478,917	460,127	443,130	426,593	410,470	394,544																		
Retire TY GR CR and MC1-2	460,135	458,634	441,415	424,708	417,201	421,341	417,647																		
Retire TY GR CR BR1-2 and MC1-2	457,973	507,607	540,573	536,929	515,460	494,527	475,493																		
Retire TY GR CR and BR1-2	401,655	452,573	486,143	483,170	463,717	446,148	429,062																		
New Unit Capital Delta																									
No Retirements																									
Retire TY	-43,237	-43,471	-20,665	-7,130	-7,126	-7,203	-7,351																		
Retire TY and GR3	2,616	20,287	33,091	36,017	35,468	35,032	33,346																		
Retire TY GR3 and BR3	63,548	-5,656	-55,762	-68,876	-56,367	-34,316	-20,778																		
Retire TY GR3 and CR4	45,601	27,358	-9,187	-25,269	-23,032	-22,207	-21,442																		
Retire TY GR3 CR4 and CR6	17,947	-33,014	-46,575	-43,608	-33,334	-12,108	664																		
Retire TY GR3 CR4 CR6 and BR1-2	-17,593	50,683	100,142	112,743	98,373	74,496	60,512																		
Retire TY GR3 and CR	-21,709	29,326	66,131	75,823	63,365	39,874	25,797																		
Retire TY GR3 CR and GH3	67,915	66,163	41,241	26,904	27,412	27,999	27,626																		
Retire TY GR3 CR and GH1	59,510	57,887	33,093	18,884	19,520	20,236	19,991																		
Retire TY GR and CR	4,116	21,358	34,012	36,920	35,009	34,622	34,715																		
Retire TY GR CR and MC4	49,079	30,322	-5,737	-21,497	-18,906	-17,760	-18,053																		
Retire TY GR CR and TC1	55,394	36,529	-918	-18,035	-15,489	-14,387	-14,723																		
Retire TY GR CR and GH4	90,159	35,515	-17,747	-32,807	-29,580	-27,857	-27,800																		
Retire TY GR CR and MC3	55,394	36,529	-919	-18,035	-15,489	-14,387	-14,723																		
Retire TY GR CR and GH2	90,159	35,515	-17,747	-32,807	-29,580	-27,857	-27,800																		
Retire TY GR CR and MC1-2	68,274	15,232	-36,459	-51,229	-38,973	-16,986	-4,696																		
Retire TY GR CR BR1-2 and MC1-2	66,111	64,405	62,699	60,992	59,286	56,200	53,149																		
Retire TY GR CR and BR1-2	9,793	9,171	8,269	7,233	7,544	7,821	6,718																		
New Controls Capital																									
No Retirements	141,026	135,277	119,424	109,283	101,867	88,953	74,209	52,894	45,452	42,906	37,390	35,540	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY	138,662	132,998	117,231	107,176	99,846	87,017	72,358	51,130	43,773	41,312	35,882	34,117	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY and GR3	136,297	130,720	115,038	105,069	97,824	85,081	70,508	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 and BR3	129,594	124,219	108,740	98,973	91,931	79,391	65,021	44,080	37,012	34,840	29,698	28,222	28,342	24,730	20,598	18,334	17,123	16,121	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 and CR4	136,297	130,720	115,038	105,069	97,824	85,081	70,508	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 CR4 and CR6	136,297	130,720	115,038	105,069	97,824	85,081	70,508	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 CR4 CR6 and BR1-2	123,868	118,712	103,452	93,904	87,082	74,760	60,609	39,888	33,038	31,085	26,162	24,905	25,245	24,162	23,079	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 and CR	136,297	130,720	115,038	105,069	97,824	85,081	70,508	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 CR and GH3	124,848	119,595	104,237	94,591	87,670	75,250	61,001	40,181	33,234	31,183	26,162	24,807	25,048	21,556	17,546	15,403	14,313	11,613	5,135	4,897	4,659	4,421	4,000	3,489	253
Retire TY GR3 CR and GH1	127,713	122,527	107,236	97,657	90,804	78,451	67,816	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR and CR	133,122	127,707	112,188	102,381	97,824	85,081	70,508	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and MC4	112,041	107,564	92,984	84,115	80,616	68,889	56,377	48,351	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and TC1	126,129	120,988	105,743	96,210	91,927	79,458	65,159	44,290	37,293	35,533	34,114	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and GH4	122,452	117,356	102,155	92,667	88,428	76,004	61,749	40,925	33,972	31,916	26,890	25,529	25,766	22,269	18,253	16,105	15,341	12,691	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and MC3	120,481	115,617	100,648	91,392	87,386	75,594	61,960	44,459	41,752	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and GH2	123,707	118,530	103,249	93,680	89,361	76,855	62,520	41,615	34,581	32,444	27,338	25,896	26,052	22,474	18,378	16,149	14,973	12,154	5,232	4,152	214	0	0	0	0
Retire TY GR CR and MC1-2	97,600	94,027	90,455	86,883	83,190	79,138	70,508	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR BR1-2 and MC1-2	85,170	82,020	78,869	75,718	72,447	68,818	60,609	39,888	33,038	31,085	26,162	24,905	25,245	24,162	23,079	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and BR1-2	120,692	115,699	100,602	91,217	87,082	74,760	60,609	39,888	33,038	31,085	26,162	24,905	25,245	24,162	23,079	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
New Controls Capital Delta																									
No Retirements																									
Retire TY	-2,364	-2,279	-2,193	-2,107	-2,022	-1,936	-1,850	-1,765	-1,679	-1,594	-1,508	-1,422	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and GR3	-2,364	-2,279	-2,193	-2,107	-2,022	-1,936	-1,850	-1,765	-1,679	-1,594	-1,508	-1,422	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and BR3	-6,703	-6,501	-6,298	-6,095	-5,893	-5,690	-5,487	-5,284	-5,082	-4,879	-4,676	-4,474	-4,271	-4,068	-3,865	-3,663	-3,460	-1,405	0	0	0	0	0	0	0
Retire TY GR3 and CR4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 and CR6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 CR6 and BR1-2	-12,429	-12,008	-11,586	-11,164	-10,742	-10,321	-9,899	-9,477	-9,055	-8,634	-8,212	-7,790	-7,369	-4,636	-1,384	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH3	-11,449	-11,125	-10,802	-10,478	-10,154	-9,831	-9,507	-9,183	-8,860	-8,536	-8,212	-7,889	-7,565	-7,241	-6,918	-6,594	-6,270	-5,913	-5,232	-4,152	-214	0	0	0	0
Retire TY GR3 CR and GH1	-8,584	-8,193	-7,802	-7,411	-7,020	-6,629	-2,692	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR	-3,176	-3,013	-2,850	-2,687	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC4	-21,080	-20,142	-19,204	-18,266	-17,208	-16,191	-14,131	-1,014	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and TC1	-6,993	-6,719	-6,445	-6,171	-5,897	-5,623	-5,349	-5,075	-4,801	-4,186	-261	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH4	-10,670	-10,351	-10,033	-9,714	-9,395	-9,077	-8,758	-8,440	-8,121	-7,803	-7,484	-7,166	-6,847	-6,529	-6,210	-5,892	-5,243	-4,835	0	0	0	0	0	0	0
Retire TY GR CR and MC3	-12,641	-12,090	-11,540	-10,989	-10,438	-9,487	-8,547	-4,906	-341	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH2	-9,414	-9,177	-8,939	-8,701	-8,463	-8,226	-7,988	-7,750	-7,512	-7,274	-7,037	-6,799	-6,561	-6,323	-6,086	-5,848	-5,610	-5,372	-5,135	-4,897	-4,659	-4,421	-4,000	-3,489	-253
Retire TY GR CR and MC1-2	-35,522	-33,680	-21,733	-15,499	-14,634	-5,943	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR BR1-2 and MC1-2	-47,952	-45,687	-33,319	-26,663	-25,377	-16,263	-9,899	-9,477	-9,055	-8,634	-8,212	-7,790	-7,369	-4,636	-1,384	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and BR1-2	-12,429	-12,008	-11,586	-11,164	-10,742	-10,321	-9,899	-9,477	-9,055	-8,634	-8,212	-7,790	-7,369	-4,636	-1,384	0	0	0	0	0	0	0	0	0	0

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Discount Rate:

	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058
MTP Capital																									
No Retirements	139,365	145,108	150,899	156,087	161,351	166,658	172,046																		
Retire TY	136,574	142,204	147,882	152,995	158,182	163,409	168,716																		
Retire TY and GR3	135,423	141,005	146,635	151,700	156,839	162,032	167,305																		
Retire TY GR3 and BR3	127,287	132,518	137,793	142,498	147,275	152,102	157,005																		
Retire TY GR3 and CR4	133,190	138,717	144,290	149,295	154,374	159,506	164,715																		
Retire TY GR3 CR4 and CR6	129,732	135,173	140,657	145,572	150,558	155,594	160,706																		
Retire TY GR3 CR4 CR6 and BR1-2	124,491	129,705	134,960	139,644	144,396	149,197	154,070																		
Retire TY GR3 and CR	127,312	132,692	138,115	142,966	147,886	152,856	157,899																		
Retire TY GR3 CR and GH3	112,482	117,220	121,994	126,191	130,449	134,750	139,117																		
Retire TY GR3 CR and GH1	112,636	117,381	122,162	126,365	130,631	134,939	139,312																		
Retire TY GR and CR	125,703	131,017	136,373	141,157	146,010	150,933	155,928																		
Retire TY GR CR and MC4	111,099	115,823	120,587	124,977	129,425	133,934	138,504																		
Retire TY GR CR and TC1	122,417	127,586	132,796	137,432	142,136	146,907	151,749																		
Retire TY GR CR and GH4	110,903	115,577	120,286	124,417	128,609	132,865	137,185																		
Retire TY GR CR and MC3	113,732	118,562	123,433	127,894	132,416	136,999	141,645																		
Retire TY GR CR and GH2	110,749	115,416	120,118	124,242	128,428	132,676	136,989																		
Retire TY GR CR and MC1-2	107,211	111,778	116,384	120,669	125,010	129,408	133,865																		
Retire TY GR CR BR1-2 and MC1-2	101,970	106,310	110,687	114,741	118,848	123,011	127,229																		
Retire TY GR CR and BR1-2	120,462	125,549	130,676	135,229	139,849	144,536	149,293																		
MTP Capital Delta																									
No Retirements																									
Retire TY	-2,790	-2,904	-3,017	-3,092	-3,170	-3,249	-3,330																		
Retire TY and GR3	-1,152	-1,199	-1,247	-1,295	-1,343	-1,377	-1,411																		
Retire TY GR3 and BR3	-8,136	-8,488	-8,843	-9,202	-9,564	-9,930	-10,300																		
Retire TY GR3 and CR4	-2,233	-2,289	-2,346	-2,405	-2,465	-2,526	-2,589																		
Retire TY GR3 CR4 and CR6	-3,457	-3,544	-3,632	-3,723	-3,816	-3,912	-4,009																		
Retire TY GR3 CR4 CR6 and BR1-2	-5,241	-5,468	-5,697	-5,928	-6,161	-6,397	-6,635																		
Retire TY GR3 and CR	-2,420	-2,481	-2,543	-2,606	-2,671	-2,738	-2,807																		
Retire TY GR3 CR and GH3	-14,831	-15,472	-16,121	-16,775	-17,437	-18,106	-18,782																		
Retire TY GR3 CR and GH1	-14,676	-15,311	-15,953	-16,601	-17,256	-17,918	-18,587																		
Retire TY GR and CR	-1,609	-1,675	-1,742	-1,809	-1,876	-1,923	-1,971																		
Retire TY GR CR and MC4	-14,604	-15,194	-15,786	-16,180	-16,585	-16,999	-17,424																		
Retire TY GR CR and TC1	-3,286	-3,431	-3,577	-3,725	-3,875	-4,026	-4,180																		
Retire TY GR CR and GH4	-14,800	-15,440	-16,087	-16,741	-17,401	-18,069	-18,743																		
Retire TY GR CR and MC3	-11,971	-12,455	-12,940	-13,263	-13,595	-13,934	-14,283																		
Retire TY GR CR and GH2	-14,954	-15,601	-16,255	-16,915	-17,583	-18,257	-18,939																		
Retire TY GR CR and MC1-2	-18,492	-19,239	-19,988	-20,488	-21,000	-21,525	-22,063																		
Retire TY GR CR BR1-2 and MC1-2	-23,734	-24,707	-25,685	-26,416	-27,162	-27,923	-28,699																		
Retire TY GR CR and BR1-2	-5,241	-5,468	-5,697	-5,928	-6,161	-6,397	-6,635																		
Landfill Capital																									
No Retirements	115,469	117,869	118,900	120,220	42,001	38,766	37,512																		
Retire TY	115,469	117,869	118,900	120,220	42,001	38,766	37,512																		
Retire TY and GR3	115,469	117,869	118,900	120,220	42,001	38,766	37,512																		
Retire TY GR3 and BR3	113,987	116,506	118,678	120,031	41,844	38,642	37,415																		
Retire TY GR3 and CR4	113,721	116,150	117,208	118,512	40,273	37,019	35,741																		
Retire TY GR3 CR4 and CR6	110,944	113,487	114,588	115,867	37,599	34,314	33,000																		
Retire TY GR3 CR4 CR6 and BR1-2	109,989	112,609	114,445	115,745	37,498	34,234	32,937																		
Retire TY GR3 and CR	109,049	111,624	112,754	114,016	35,727	32,420	31,081																		
Retire TY GR3 CR and GH3	89,473	91,157	91,345	92,095	33,209	30,546	29,362																		
Retire TY GR3 CR and GH1	89,677	91,370	91,568	92,323	33,235	30,566	29,380																		
Retire TY GR and CR	109,049	111,624	112,754	114,016	35,727	32,420	31,081																		
Retire TY GR CR and MC4	109,049	111,624	112,754	114,016	35,727	32,420	31,081																		
Retire TY GR CR and TC1	97,385	100,281	101,723	103,285	25,285	22,258	21,195																		
Retire TY GR CR and GH4	89,514	91,199	91,390	92,141	33,214	30,550	29,366																		
Retire TY GR CR and MC3	109,049	111,624	112,754	114,016	35,727	32,420	31,081																		
Retire TY GR CR and GH2	89,310	90,986	91,167	91,912	33,188	30,531	29,348																		
Retire TY GR CR and MC1-2	109,049	111,624	112,754	114,016	35,727	32,420	31,081																		
Retire TY GR CR BR1-2 and MC1-2	108,094	110,746	112,611	113,894	35,626	32,340	31,018																		
Retire TY GR CR and BR1-2	108,094	110,746	112,611	113,894	35,626	32,340	31,018																		
Landfill Capital Delta																									
No Retirements																									
Retire TY	0	0	0	0	0	0	0																		
Retire TY and GR3	0	0	0	0	0	0	0																		
Retire TY GR3 and BR3	-1,482	-1,363	-222	-189	-157	-124	-97																		
Retire TY GR3 and CR4	-1,748	-1,719	-1,692	-1,708	-1,727	-1,747	-1,771																		
Retire TY GR3 CR4 and CR6	-2,777	-2,662	-2,620	-2,645	-2,674	-2,705	-2,742																		
Retire TY GR3 CR4 CR6 and BR1-2	-955	-878	-143	-122	-101	-80	-62																		
Retire TY GR3 and CR	-1,895	-1,864	-1,834	-1,851	-1,872	-1,894	-1,919																		
Retire TY GR3 CR and GH3	-19,576	-20,467	-21,409	-21,921	-2,518	-1,874	-1,718																		
Retire TY GR3 CR and GH1	-19,372	-20,254	-21,186	-21,692	-2,492	-1,854	-1,700																		

Discount Rate:

	2034	2035	2036	2037	2038	2039	2040
Retire TY GR and CR	0	0	0	0	0	0	0
Retire TY GR CR and MC4	0	0	0	0	0	0	0
Retire TY GR CR and TC1	-11,666	-11,343	-11,031	-10,731	-10,442	-10,162	-9,886
Retire TY GR CR and GH4	-19,535	-20,424	-21,364	-21,875	-2,513	-1,870	-1,715
Retire TY GR CR and MC3	0	0	0	0	0	0	0
Retire TY GR CR and GH2	-19,739	-20,637	-21,587	-22,103	-2,539	-1,889	-1,733
Retire TY GR CR and MC1-2	0	0	0	0	0	0	0
Retire TY GR CR BR1-2 and MC1-2	-955	-878	-143	-122	-101	-80	-62
Retire TY GR CR and BR1-2	-955	-878	-143	-122	-101	-80	-62

Water Capital

	2034	2035	2036	2037	2038	2039	2040
No Retirements	11,399	10,985	10,571	10,157	9,743	9,329	6,496
Retire TY	11,062	10,662	10,262	9,862	9,463	9,063	6,245
Retire TY and GR3	10,724	10,339	9,953	9,568	9,183	8,797	5,993
Retire TY GR3 and BR3	9,365	9,023	8,680	8,338	7,995	7,653	4,892
Retire TY GR3 and CR4	10,724	10,339	9,953	9,568	9,183	8,797	5,993
Retire TY GR3 CR4 and CR6	10,724	10,339	9,953	9,568	9,183	8,797	5,993
Retire TY GR3 CR4 CR6 and BR1-2	9,849	9,491	9,133	8,775	8,418	8,060	5,284
Retire TY GR3 and CR	10,724	10,339	9,953	9,568	9,183	8,797	5,993
Retire TY GR3 CR and GH3	9,840	9,482	9,124	8,765	8,407	8,049	5,272
Retire TY GR3 CR and GH1	9,850	9,491	9,132	8,774	8,415	8,056	5,279
Retire TY GR and CR	10,253	9,888	9,522	9,157	8,791	8,426	5,642
Retire TY GR CR and MC4	9,166	8,852	8,537	8,222	7,907	7,592	5,642
Retire TY GR CR and TC1	9,787	9,434	9,082	8,729	8,376	8,023	5,252
Retire TY GR CR and GH4	9,371	9,033	8,694	8,356	8,017	7,679	4,922
Retire TY GR CR and MC3	9,362	9,038	8,714	8,390	8,066	7,742	5,642
Retire TY GR CR and GH2	9,362	9,024	8,686	8,347	8,009	7,671	4,915
Retire TY GR CR and MC1-2	8,877	8,576	8,274	7,973	7,671	7,370	5,642
Retire TY GR CR BR1-2 and MC1-2	8,002	7,728	7,454	7,180	6,906	6,632	4,933
Retire TY GR CR and BR1-2	9,377	9,040	8,702	8,364	8,026	7,689	4,933

Water Capital Delta

	2034	2035	2036	2037	2038	2039	2040
No Retirements							
Retire TY	-337	-323	-309	-294	-280	-266	-251
Retire TY and GR3	-337	-323	-309	-294	-280	-266	-251
Retire TY GR3 and BR3	-1,359	-1,316	-1,273	-1,230	-1,187	-1,144	-1,101
Retire TY GR3 and CR4	0	0	0	0	0	0	0
Retire TY GR3 CR4 and CR6	0	0	0	0	0	0	0
Retire TY GR3 CR4 CR6 and BR1-2	-876	-848	-820	-793	-765	-737	-710
Retire TY GR3 and CR	0	0	0	0	0	0	0
Retire TY GR3 CR and GH3	-884	-857	-830	-803	-776	-748	-721
Retire TY GR3 CR and GH1	-875	-848	-821	-794	-767	-741	-714
Retire TY GR and CR	-471	-451	-431	-411	-391	-371	-351
Retire TY GR CR and MC4	-1,086	-1,036	-986	-935	-885	-834	0
Retire TY GR CR and TC1	-466	-453	-441	-428	-415	-403	-390
Retire TY GR CR and GH4	-882	-855	-828	-801	-774	-747	-720
Retire TY GR CR and MC3	-891	-849	-808	-766	-725	-684	0
Retire TY GR CR and GH2	-891	-864	-837	-809	-782	-755	-727
Retire TY GR CR and MC1-2	-1,376	-1,312	-1,248	-1,184	-1,120	-1,056	0
Retire TY GR CR BR1-2 and MC1-2	-2,251	-2,160	-2,068	-1,977	-1,885	-1,793	-710
Retire TY GR CR and BR1-2	-876	-848	-820	-793	-765	-737	-710

Total Capital

	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058
No Retirements	793,787	830,797	820,861	798,931	700,787	674,023	646,877	52,894	45,452	42,906	37,390	35,540	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY	745,058	781,821	794,678	786,307	688,189	661,369	634,094	51,130	43,773	41,312	35,882	34,117	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY and GR3	743,820	798,307	824,020	818,627	720,013	692,823	663,928	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 and BR3	789,687	774,985	751,623	733,035	646,846	641,619	626,165	44,080	37,012	34,840	29,698	28,222	28,342	24,730	20,598	18,334	17,123	16,121	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 and CR4	785,440	821,657	810,796	789,246	692,789	666,342	638,126	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 CR4 and CR6	797,152	782,437	757,969	739,270	652,964	647,617	632,039	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 CR4 CR6 and BR1-2	760,059	813,919	839,865	834,006	733,567	704,578	675,244	39,888	33,038	31,085	26,162	24,905	25,245	24,162	23,079	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 and CR	771,129	807,419	819,723	810,635	711,785	682,859	653,110	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 CR and GH3	792,304	825,660	811,803	787,563	708,311	680,298	650,007	40,181	33,234	31,183	26,162	24,807	25,048	21,556	17,546	15,403	14,313	11,613	5,135	4,897	4,659	4,421	4,000	3,489	253
Retire TY GR3 CR and GH1	787,132	820,699	807,054	783,021	703,770	675,952	649,408	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR and CR	769,989	823,637	848,711	842,648	744,526	715,187	685,502	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and MC4	782,297	817,586	806,999	785,769	690,943	663,402	635,894	48,351	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and TC1	802,971	838,220	826,299	803,558	708,409	680,586	650,975	44,290	37,293	35,533	34,114	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and GH4	814,261	812,082	782,653	760,710	684,862	657,568	627,766	40,925	33,972	31,916	26,890	25,529	25,766	22,269	18,253	16,105	15,341	12,691	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and MC3	799,880	834,772	822,505	799,594	704,279	676,695	647,949	44,459	41,752	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and GH2	815,149	812,873	783,347	761,312	685,579	658,203	628,316	41,615	34,581	32,444	27,338	25,896	26,052	22,474	18,378	16,149	14,973	12,154	5,232	4,152	214	0	0	0	0
Retire TY GR CR and MC1-2	782,872	784,638	769,283	754,248	668,798	669,676	658,743	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR BR1-2 and MC1-2	761,209	814,610	850,194	848,463	749,288	725,328	699,281	39,888	33,038	31,085	26,162	24,905	25,245	24,162	23,079	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and BR1-2	760,281	813,606	838,734	831,874	734,300	705,473	674,914	39,888	33,038	31,085	26,162	24,905	25,245	24,162	23,079	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253

Total Capital Delta

10/17/2011

Discount Rate:

	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058
No Retirements																									
Retire TY	-48,729	-48,976	-26,184	-12,624	-12,598	-12,653	-12,783	-1,765	-1,679	-1,594	-1,508	-1,422	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and GR3	-1,238	16,487	29,343	32,320	31,824	31,453	29,833	-1,765	-1,679	-1,594	-1,508	-1,422	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and BR3	45,867	-23,323	-72,397	-85,593	-73,167	-51,204	-37,763	-5,284	-5,082	-4,879	-4,676	-4,474	-4,271	-4,068	-3,865	-3,663	-3,460	-1,405	0	0	0	0	0	0	0
Retire TY GR3 and CR4	41,620	23,350	-13,225	-29,381	-27,224	-26,481	-25,802	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 and CR6	11,712	-39,220	-52,827	-49,976	-39,825	-18,725	-6,087	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 CR6 and BR1-2	-37,094	31,482	81,896	94,736	80,603	56,961	43,205	-9,477	-9,055	-8,634	-8,212	-7,790	-7,369	-4,636	-1,384	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR	-26,024	24,981	61,754	71,365	58,821	35,242	21,071	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH3	21,175	18,242	-7,919	-23,073	-3,473	-2,560	-3,103	-9,183	-8,860	-8,536	-8,212	-7,889	-7,565	-7,241	-6,918	-6,594	-6,270	-5,913	-5,232	-4,152	-214	0	0	0	0
Retire TY GR3 CR and GH1	16,003	13,281	-12,668	-27,614	-8,015	-6,906	-3,702	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR	-1,139	16,218	28,988	32,012	32,741	32,328	32,392	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC4	12,308	-6,050	-41,712	-56,878	-53,583	-51,785	-49,608	-1,014	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and TC1	32,982	14,583	-22,412	-39,090	-36,117	-34,600	-34,527	-5,075	-4,801	-4,186	-261	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH4	44,272	-11,555	-66,058	-81,937	-59,663	-57,619	-57,736	-8,440	-8,121	-7,803	-7,484	-7,166	-6,847	-6,529	-6,210	-5,892	-5,243	-4,835	0	0	0	0	0	0	0
Retire TY GR CR and MC3	29,891	11,135	-26,206	-43,054	-40,247	-38,492	-37,554	-4,906	-341	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH2	45,160	-10,764	-65,364	-81,336	-58,947	-56,983	-57,186	-7,750	-7,512	-7,274	-7,037	-6,799	-6,561	-6,323	-6,086	-5,848	-5,610	-5,372	-5,135	-4,897	-4,659	-4,421	-4,000	-3,489	-253
Retire TY GR CR and MC1-2	12,883	-38,998	-79,428	-88,400	-75,728	-45,510	-26,760	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR BR1-2 and MC1-2	-8,781	-9,027	1,483	5,815	4,762	10,141	13,779	-9,477	-9,055	-8,634	-8,212	-7,790	-7,369	-4,636	-1,384	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and BR1-2	-9,709	-10,031	-9,977	-10,774	-10,226	-9,714	-10,588	-9,477	-9,055	-8,634	-8,212	-7,790	-7,369	-4,636	-1,384	0	0	0	0	0	0	0	0	0	0

Retirement O&M Cost

No Retirements							
Retire TY	0	0	0	0	0	0	0
Retire TY and GR3	0	0	0	0	0	0	0
Retire TY GR3 and BR3	0	0	0	0	0	0	0
Retire TY GR3 and CR4	0	0	0	0	0	0	0
Retire TY GR3 CR4 and CR6	0	0	0	0	0	0	0
Retire TY GR3 CR4 CR6 and BR1-2	0	0	0	0	0	0	0
Retire TY GR3 and CR	0	0	0	0	0	0	0
Retire TY GR3 CR and GH3	0	0	0	0	0	0	0
Retire TY GR3 CR and GH1	0	0	0	0	0	0	0
Retire TY GR and CR	0	0	0	0	0	0	0
Retire TY GR CR and MC4	0	0	0	0	0	0	0
Retire TY GR CR and TC1	0	0	0	0	0	0	0
Retire TY GR CR and GH4	0	0	0	0	0	0	0
Retire TY GR CR and MC3	0	0	0	0	0	0	0
Retire TY GR CR and GH2	0	0	0	0	0	0	0
Retire TY GR CR and MC1-2	0	0	0	0	0	0	0
Retire TY GR CR BR1-2 and MC1-2	0	0	0	0	0	0	0
Retire TY GR CR and BR1-2	0	0	0	0	0	0	0

Retirement O&M Cost Delta

No Retirements							
Retire TY	0	0	0	0	0	0	0
Retire TY and GR3	0	0	0	0	0	0	0
Retire TY GR3 and BR3	0	0	0	0	0	0	0
Retire TY GR3 and CR4	0	0	0	0	0	0	0
Retire TY GR3 CR4 and CR6	0	0	0	0	0	0	0
Retire TY GR3 CR4 CR6 and BR1-2	0	0	0	0	0	0	0
Retire TY GR3 and CR	0	0	0	0	0	0	0
Retire TY GR3 CR and GH3	0	0	0	0	0	0	0
Retire TY GR3 CR and GH1	0	0	0	0	0	0	0
Retire TY GR and CR	0	0	0	0	0	0	0
Retire TY GR CR and MC4	0	0	0	0	0	0	0
Retire TY GR CR and TC1	0	0	0	0	0	0	0
Retire TY GR CR and GH4	0	0	0	0	0	0	0
Retire TY GR CR and MC3	0	0	0	0	0	0	0
Retire TY GR CR and GH2	0	0	0	0	0	0	0
Retire TY GR CR and MC1-2	0	0	0	0	0	0	0
Retire TY GR CR BR1-2 and MC1-2	0	0	0	0	0	0	0
Retire TY GR CR and BR1-2	0	0	0	0	0	0	0

Existing Unit Fixed O&M

No Retirements	318,658	325,031	331,532	338,163	344,926	351,824	358,861
Retire TY	318,024	324,385	330,872	337,490	344,240	351,124	358,147
Retire TY and GR3	311,416	317,645	323,998	330,478	337,087	343,829	350,705
Retire TY GR3 and BR3	288,827	294,604	300,496	306,506	312,636	318,889	325,267
Retire TY GR3 and CR4	293,185	299,049	305,030	311,130	317,353	323,700	330,174
Retire TY GR3 CR4 and CR6	277,766	283,322	288,988	294,768	300,663	306,677	312,810
Retire TY GR3 CR4 CR6 and BR1-2	260,757	265,972	271,292	276,718	282,252	287,897	293,655
Retire TY GR3 and CR	258,380	263,547	268,818	274,194	279,678	285,272	290,977
Retire TY GR3 CR and GH3	239,472	244,261	249,146	254,129	259,212	264,396	269,684
Retire TY GR3 CR and GH1	231,150	235,773	240,488	245,298	250,204	255,208	260,312
Retire TY GR and CR	245,295	250,201	255,205	260,309	265,515	270,826	276,242

Discount Rate:

	2034	2035	2036	2037	2038	2039	2040
Retire TY GR CR and MC4	219,158	223,541	228,012	232,572	237,223	241,968	246,807
Retire TY GR CR and TC1	218,919	223,297	227,763	232,318	236,964	241,704	246,538
Retire TY GR CR and GH4	226,948	231,487	236,116	240,839	245,655	250,569	255,580
Retire TY GR CR and MC3	219,193	223,577	228,049	232,610	237,262	242,007	246,847
Retire TY GR CR and GH2	224,941	229,439	234,028	238,709	243,483	248,353	253,320
Retire TY GR CR and MC1-2	203,054	207,115	211,257	215,482	219,792	224,188	228,671
Retire TY GR CR BR1-2 and MC1-2	186,045	189,765	193,561	197,432	201,381	205,408	209,516
Retire TY GR CR and BR1-2	228,286	232,852	237,509	242,259	247,104	252,046	257,087
Existing Unit Fixed O&M Delta							
No Retirements							
Retire TY	-634	-647	-660	-673	-686	-700	-714
Retire TY and GR3	-6,608	-6,740	-6,875	-7,012	-7,153	-7,296	-7,442
Retire TY GR3 and BR3	-22,589	-23,041	-23,502	-23,972	-24,451	-24,940	-25,439
Retire TY GR3 and CR4	-18,232	-18,596	-18,968	-19,347	-19,734	-20,129	-20,532
Retire TY GR3 CR4 and CR6	-15,418	-15,727	-16,041	-16,362	-16,689	-17,023	-17,364
Retire TY GR3 CR4 CR6 and BR1-2	-17,009	-17,349	-17,696	-18,050	-18,411	-18,779	-19,155
Retire TY GR3 and CR	-19,387	-19,775	-20,170	-20,573	-20,985	-21,405	-21,833
Retire TY GR3 CR and GH3	-18,908	-19,286	-19,672	-20,065	-20,466	-20,876	-21,293
Retire TY GR3 CR and GH1	-27,230	-27,774	-28,330	-28,897	-29,474	-30,064	-30,665
Retire TY GR and CR	-13,084	-13,346	-13,613	-13,885	-14,163	-14,446	-14,735
Retire TY GR CR and MC4	-26,138	-26,660	-27,194	-27,737	-28,292	-28,858	-29,435
Retire TY GR CR and TC1	-26,377	-26,904	-27,442	-27,991	-28,551	-29,122	-29,704
Retire TY GR CR and GH4	-18,347	-18,714	-19,089	-19,470	-19,860	-20,257	-20,662
Retire TY GR CR and MC3	-26,102	-26,624	-27,156	-27,699	-28,253	-28,818	-29,395
Retire TY GR CR and GH2	-20,355	-20,762	-21,177	-21,600	-22,032	-22,473	-22,923
Retire TY GR CR and MC1-2	-42,242	-43,086	-43,948	-44,827	-45,724	-46,638	-47,571
Retire TY GR CR BR1-2 and MC1-2	-59,251	-60,436	-61,644	-62,877	-64,135	-65,417	-66,726
Retire TY GR CR and BR1-2	-17,009	-17,349	-17,696	-18,050	-18,411	-18,779	-19,155
New Controls Fixed O&M							
No Retirements	53,296	54,361	55,449	56,558	57,689	58,843	60,019
Retire TY	47,726	48,680	49,654	50,647	51,660	52,693	53,747
Retire TY and GR3	42,156	42,999	43,859	44,736	45,631	46,543	47,474
Retire TY GR3 and BR3	40,600	41,412	42,241	43,085	43,947	44,826	45,723
Retire TY GR3 and CR4	36,679	37,412	38,161	38,924	39,702	40,496	41,306
Retire TY GR3 CR4 and CR6	29,581	30,172	30,776	31,391	32,019	32,660	33,313
Retire TY GR3 CR4 CR6 and BR1-2	27,230	27,774	28,330	28,896	29,474	30,064	30,665
Retire TY GR3 and CR	23,802	24,278	24,763	25,259	25,764	26,279	26,805
Retire TY GR3 CR and GH3	21,901	22,339	22,786	23,241	23,706	24,180	24,664
Retire TY GR3 CR and GH1	21,880	22,318	22,764	23,219	23,684	24,158	24,641
Retire TY GR and CR	16,630	16,962	17,301	17,648	18,000	18,360	18,728
Retire TY GR CR and MC4	14,365	14,653	14,946	15,244	15,549	15,860	16,178
Retire TY GR CR and TC1	15,191	15,495	15,805	16,121	16,443	16,772	17,108
Retire TY GR CR and GH4	14,789	15,084	15,386	15,694	16,008	16,328	16,654
Retire TY GR CR and MC3	14,691	14,984	15,284	15,590	15,902	16,220	16,544
Retire TY GR CR and GH2	14,169	14,452	14,742	15,036	15,337	15,644	15,957
Retire TY GR CR and MC1-2	12,103	12,345	12,592	12,843	13,100	13,362	13,630
Retire TY GR CR BR1-2 and MC1-2	9,751	9,946	10,145	10,348	10,555	10,766	10,982
Retire TY GR CR and BR1-2	14,278	14,564	14,855	15,152	15,455	15,764	16,080
New Controls Fixed O&M Delta							
No Retirements							
Retire TY	-5,570	-5,681	-5,795	-5,911	-6,029	-6,150	-6,273
Retire TY and GR3	-5,570	-5,681	-5,795	-5,911	-6,029	-6,150	-6,273
Retire TY GR3 and BR3	-1,555	-1,586	-1,618	-1,650	-1,683	-1,717	-1,751
Retire TY GR3 and CR4	-5,477	-5,586	-5,698	-5,812	-5,928	-6,047	-6,168
Retire TY GR3 CR4 and CR6	-7,098	-7,240	-7,385	-7,532	-7,683	-7,837	-7,994
Retire TY GR3 CR4 CR6 and BR1-2	-2,351	-2,398	-2,446	-2,495	-2,545	-2,596	-2,648
Retire TY GR3 and CR	-5,779	-5,895	-6,013	-6,133	-6,255	-6,381	-6,508
Retire TY GR3 CR and GH3	-1,901	-1,939	-1,978	-2,017	-2,058	-2,099	-2,141
Retire TY GR3 CR and GH1	-1,921	-1,960	-1,999	-2,039	-2,080	-2,121	-2,164
Retire TY GR and CR	-7,172	-7,315	-7,462	-7,611	-7,763	-7,918	-8,077
Retire TY GR CR and MC4	-2,264	-2,310	-2,356	-2,403	-2,451	-2,500	-2,550
Retire TY GR CR and TC1	-1,439	-1,467	-1,497	-1,527	-1,557	-1,588	-1,620
Retire TY GR CR and GH4	-1,841	-1,878	-1,915	-1,954	-1,993	-2,033	-2,073
Retire TY GR CR and MC3	-1,939	-1,978	-2,017	-2,058	-2,099	-2,141	-2,184
Retire TY GR CR and GH2	-2,461	-2,510	-2,560	-2,611	-2,663	-2,717	-2,771
Retire TY GR CR and MC1-2	-4,527	-4,618	-4,710	-4,804	-4,900	-4,998	-5,098
Retire TY GR CR BR1-2 and MC1-2	-6,878	-7,016	-7,156	-7,299	-7,445	-7,594	-7,746
Retire TY GR CR and BR1-2	-2,351	-2,398	-2,446	-2,495	-2,545	-2,596	-2,648
Total Revenue Requirements							
No Retirements	3,655,423	3,770,123	3,825,861	3,894,596	3,974,397	3,989,807	4,167,426

	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058
Total Revenue Requirements																		
No Retirements	52,894	45,452	42,906	37,390	35,540	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253

Discount Rate:

	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058
Retire TY	3,579,809	3,745,907	3,807,150	3,885,363	3,969,313	3,986,144	4,169,204	51,130	43,773	41,312	35,882	34,117	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY and GR3	3,582,110	3,769,675	3,832,303	3,910,764	3,989,600	4,004,941	4,178,990	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 and BR3	3,693,023	3,813,089	3,883,025	3,977,955	4,094,666	4,149,424	4,311,270	44,080	37,012	34,840	29,698	28,222	28,342	24,730	20,598	18,334	17,123	16,121	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 and CR4	3,673,375	3,791,765	3,846,182	3,923,392	4,012,675	4,025,866	4,222,369	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 CR4 and CR6	3,691,469	3,810,212	3,884,179	3,968,056	4,067,442	4,135,007	4,327,473	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 CR4 CR6 and BR1-2	3,753,164	3,961,925	4,032,644	4,115,568	4,204,021	4,244,198	4,443,465	39,888	33,038	31,085	26,162	24,905	25,245	24,162	23,079	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 and CR	3,727,278	3,909,504	3,976,405	4,072,900	4,152,864	4,200,577	4,398,153	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 CR and GH3	3,935,529	4,065,334	4,147,407	4,232,965	4,324,821	4,414,033	4,617,436	40,181	33,234	31,183	26,162	24,807	25,048	21,556	17,546	15,403	14,313	11,613	5,135	4,897	4,659	4,421	4,000	3,489	253
Retire TY GR3 CR and GH1	3,915,722	4,026,885	4,134,600	4,221,904	4,345,604	4,392,950	4,619,177	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR and CR	3,731,447	3,941,216	4,003,661	4,100,553	4,177,302	4,223,906	4,415,154	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and MC4	3,940,602	4,079,441	4,145,730	4,262,151	4,322,077	4,424,641	4,625,203	48,351	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and TC1	3,931,623	4,054,435	4,146,231	4,227,426	4,341,239	4,383,057	4,613,236	44,290	37,293	35,533	34,114	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and GH4	3,925,200	4,067,863	4,119,642	4,252,804	4,365,547	4,437,496	4,646,846	40,925	33,972	31,916	26,890	25,529	25,766	22,269	18,253	16,105	15,341	12,691	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and MC3	3,913,090	4,022,396	4,127,677	4,215,061	4,321,753	4,367,754	4,593,035	44,459	41,752	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and GH2	3,925,852	4,071,643	4,152,082	4,244,116	4,374,648	4,427,781	4,613,654	41,615	34,581	32,444	27,338	25,896	26,052	22,474	18,378	16,149	14,973	12,154	5,232	4,152	214	0	0	0	0
Retire TY GR CR and MC1-2	3,931,266	4,071,289	4,165,100	4,292,351	4,411,848	4,508,765	4,727,737	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR BR1-2 and MC1-2	4,004,093	4,236,783	4,323,206	4,451,067	4,562,293	4,630,798	4,858,353	39,888	33,038	31,085	26,162	24,905	25,245	24,162	23,079	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and BR1-2	3,789,503	4,007,598	4,074,095	4,171,758	4,264,415	4,315,408	4,515,097	39,888	33,038	31,085	26,162	24,905	25,245	24,162	23,079	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253

Total Revenue Requirements Delta

No Retirements

	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058
Retire TY	-75,614	-24,215	-18,711	-9,233	-5,084	-3,663	1,778	-1,765	-1,679	-1,594	-1,508	-1,422	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and GR3	2,302	23,768	25,154	25,401	20,288	18,797	9,786	-1,765	-1,679	-1,594	-1,508	-1,422	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and BR3	110,912	43,414	50,721	67,191	105,065	144,483	132,280	-5,284	-5,082	-4,879	-4,676	-4,474	-4,271	-4,068	-3,865	-3,663	-3,460	-1,405	0	0	0	0	0	0	0
Retire TY GR3 and CR4	91,265	22,089	13,879	12,628	23,074	20,925	43,379	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 and CR6	18,094	18,447	37,997	44,664	54,767	109,141	105,104	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 CR6 and BR1-2	61,694	151,713	148,465	147,512	136,579	109,191	115,992	-9,477	-9,055	-8,634	-8,212	-7,790	-7,369	-4,636	-1,384	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR	35,808	99,292	92,226	104,844	85,422	65,570	70,680	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH3	208,252	155,830	171,002	160,065	171,957	213,456	219,283	-9,183	-8,860	-8,536	-8,212	-7,889	-7,565	-7,241	-6,918	-6,594	-6,270	-5,913	-5,232	-4,152	-214	0	0	0	0
Retire TY GR3 CR and GH1	188,444	117,381	158,195	149,004	192,740	192,373	221,024	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR	4,170	31,712	27,256	27,653	24,438	23,329	17,001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC4	209,155	138,225	142,069	161,598	144,775	200,735	210,050	-1,014	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and TC1	200,176	113,219	142,571	126,873	163,937	159,151	198,083	-5,075	-4,801	-4,186	-261	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH4	193,753	126,647	115,981	152,250	188,244	213,590	231,692	-8,440	-8,121	-7,803	-7,484	-7,166	-6,847	-6,529	-6,210	-5,892	-5,243	-4,835	0	0	0	0	0	0	0
Retire TY GR CR and MC3	181,643	81,180	124,016	114,507	144,451	143,848	177,881	-4,906	-341	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH2	194,405	130,426	148,422	143,562	197,345	203,875	198,501	-7,750	-7,512	-7,274	-7,037	-6,799	-6,561	-6,323	-6,086	-5,848	-5,610	-5,372	-5,135	-4,897	-4,659	-4,421	-4,000	-3,489	-253
Retire TY GR CR and MC1-2	199,819	130,072	161,440	191,798	234,545	284,859	312,584	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR BR1-2 and MC1-2	272,645	295,566	319,545	350,514	384,990	406,892	443,199	-9,477	-9,055	-8,634	-8,212	-7,790	-7,369	-4,636	-1,384	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and BR1-2	58,055	66,382	70,434	71,205	87,113	91,502	99,944	-9,477	-9,055	-8,634	-8,212	-7,790	-7,369	-4,636	-1,384	0	0	0	0	0	0	0	0	0	0

Total Revenue Requirements Cumulative D

No Retirements

Retire TY	-82,619	-106,834	-125,546	-134,779	-139,863	-143,526	-141,748
Retire TY and GR3	-117,054	-93,286	-68,133	-42,732	-22,444	-3,647	6,139
Retire TY GR3 and BR3	1,214,324	1,257,738	1,308,459	1,375,650	1,480,715	1,625,197	1,757,477
Retire TY GR3 and CR4	-117,546	-95,457	-81,578	-68,950	-45,875	-24,951	18,428
Retire TY GR3 CR4 and CR6	154,172	172,619	210,616	255,280	310,047	419,188	524,292
Retire TY GR3 CR4 CR6 and BR1-2	255,312	407,025	555,490	703,002	839,582	948,772	1,064,764
Retire TY GR3 and CR	-164,857	-65,565	26,661	131,505	216,927	282,497	353,178
Retire TY GR3 CR and GH3	1,623,708	1,779,538	1,950,540	2,110,605	2,282,562	2,496,018	2,715,301
Retire TY GR3 CR and GH1	1,467,161	1,584,542	1,742,737	1,891,741	2,084,481	2,276,854	2,497,877
Retire TY GR and CR	-268,269	-236,557	-209,301	-181,648	-157,209	-133,881	-116,880
Retire TY GR CR and MC4	1,648,266	1,786,491	1,928,560	2,090,157	2,234,932	2,435,667	2,645,717
Retire TY GR CR and TC1	1,932,708	2,045,927	2,188,497	2,315,370	2,479,307	2,638,458	2,836,540
Retire TY GR CR and GH4	2,209,831	2,336,477	2,452,458	2,604,709	2,792,953	3,006,543	3,238,235
Retire TY GR CR and MC3	1,501,667	1,582,847	1,706,863	1,821,371	1,965,821	2,109,669	2,287,551
Retire TY GR CR and GH2	2,204,239	2,334,665	2,483,087	2,626,649	2,823,995	3,027,870	3,226,371
Retire TY GR CR and MC1-2	1,961,993	2,092,066	2,253,505	2,445,303	2,679,849	2,964,707	3,277,291
Retire TY GR CR BR1-2 and MC1-2	2,677,086	2,972,653	3,292,198	3,642,712	4,027,702	4,434,595	4,877,794
Retire TY GR CR and BR1-2	521,538	587,920	658,354	729,559	816,673	908,174	1,008,118

Discount Rate:

	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078
New Unit Capital and Production Cost																				
No Retirements																				
Retire TY																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
Retire TY GR CR and BR1-2																				
Production Cost																				
No Retirements																				
Retire TY																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
Retire TY GR CR and BR1-2																				
Production Cost Delta																				
No Retirements																				
Retire TY																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
Retire TY GR CR and BR1-2																				
New Unit Capital																				
No Retirements																				
Retire TY																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				

Discount Rate:

	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
Retire TY GR CR and BR1-2																				
New Unit Capital Delta																				
No Retirements																				
Retire TY																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
Retire TY GR CR and BR1-2																				
New Controls Capital																				
No Retirements	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and GR3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and BR3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 and CR6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 CR6 and BR1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH1	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Retire TY GR and CR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and TC1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR BR1-2 and MC1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and BR1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
New Controls Capital Delta																				
No Retirements																				
Retire TY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and GR3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and BR3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 and CR6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 CR6 and BR1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC4	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Retire TY GR CR and TC1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR BR1-2 and MC1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and BR1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Discount Rate:

	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078
MTP Capital																				
No Retirements																				
Retire TY																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
Retire TY GR CR and BR1-2																				
MTP Capital Delta																				
No Retirements																				
Retire TY																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
Retire TY GR CR and BR1-2																				
Landfill Capital																				
No Retirements																				
Retire TY																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
Retire TY GR CR and BR1-2																				
Landfill Capital Delta																				
No Retirements																				
Retire TY																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				

Discount Rate:

	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078
Retire TY GR and CR																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
Retire TY GR CR and BR1-2																				
Water Capital																				
No Retirements																				
Retire TY																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
Retire TY GR CR and BR1-2																				
Water Capital Delta																				
No Retirements																				
Retire TY																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
Retire TY GR CR and BR1-2																				
Total Capital																				
No Retirements	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and GR3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and BR3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 and CR6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 CR6 and BR1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and TC1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR BR1-2 and MC1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and BR1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Capital Delta																				

Discount Rate:

	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078
No Retirements																				
Retire TY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and GR3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and BR3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 and CR6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 CR6 and BR1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and TC1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR BR1-2 and MC1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and BR1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Retirement O&M Cost

No Retirements
Retire TY
Retire TY and GR3
Retire TY GR3 and BR3
Retire TY GR3 and CR4
Retire TY GR3 CR4 and CR6
Retire TY GR3 CR4 CR6 and BR1-2
Retire TY GR3 and CR
Retire TY GR3 CR and GH3
Retire TY GR3 CR and GH1
Retire TY GR and CR
Retire TY GR CR and MC4
Retire TY GR CR and TC1
Retire TY GR CR and GH4
Retire TY GR CR and MC3
Retire TY GR CR and GH2
Retire TY GR CR and MC1-2
Retire TY GR CR BR1-2 and MC1-2
Retire TY GR CR and BR1-2

Retirement O&M Cost Delta

No Retirements
Retire TY
Retire TY and GR3
Retire TY GR3 and BR3
Retire TY GR3 and CR4
Retire TY GR3 CR4 and CR6
Retire TY GR3 CR4 CR6 and BR1-2
Retire TY GR3 and CR
Retire TY GR3 CR and GH3
Retire TY GR3 CR and GH1
Retire TY GR and CR
Retire TY GR CR and MC4
Retire TY GR CR and TC1
Retire TY GR CR and GH4
Retire TY GR CR and MC3
Retire TY GR CR and GH2
Retire TY GR CR and MC1-2
Retire TY GR CR BR1-2 and MC1-2
Retire TY GR CR and BR1-2

Existing Unit Fixed O&M

No Retirements
Retire TY
Retire TY and GR3
Retire TY GR3 and BR3
Retire TY GR3 and CR4
Retire TY GR3 CR4 and CR6
Retire TY GR3 CR4 CR6 and BR1-2
Retire TY GR3 and CR
Retire TY GR3 CR and GH3
Retire TY GR3 CR and GH1
Retire TY GR and CR

Discount Rate:

	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
Retire TY GR CR and BR1-2																				
Existing Unit Fixed O&M Delta																				
No Retirements																				
Retire TY																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
Retire TY GR CR and BR1-2																				
New Controls Fixed O&M																				
No Retirements																				
Retire TY																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
Retire TY GR CR and BR1-2																				
New Controls Fixed O&M Delta																				
No Retirements																				
Retire TY																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
Retire TY GR CR and BR1-2																				
Total Revenue Requirements																				
No Retirements	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Discount Rate:

	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078
Retire TY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and GR3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and BR3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 and CR6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 CR6 and BR1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and TC1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR BR1-2 and MC1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and BR1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Revenue Requirements Delta																				
No Retirements																				
Retire TY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and GR3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and BR3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 and CR6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 CR6 and BR1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and TC1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR BR1-2 and MC1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and BR1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Revenue Requirements Cumulative D																				
No Retirements																				
Retire TY																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
Retire TY GR CR and BR1-2																				

Station	Unit		2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
BR	BR1	BR1FFP 0	0	238	3,127	7,278	12,105	12,775	12,123	11,534	10,999	10,472	9,946	9,420	8,894	8,368	7,842	7,483	7,291	7,099
BR	BR1	BR1SAM 0	0	0	0	231	521	550	522	497	474	452	429	407	384	362	339	324	315	307
BR	BR2	BR2FFP 0	0	252	3,379	7,865	13,414	13,865	13,156	12,514	11,931	11,357	10,783	10,210	9,636	9,062	8,488	8,095	7,881	7,668
BR	BR2	BR2SAM 0	0	0	0	231	534	553	525	499	476	453	431	408	385	362	340	324	315	307
BR	BR3	BR3FFP 0	0	0	204	2,854	7,595	13,437	14,120	13,404	12,757	12,171	11,595	11,019	10,443	9,867	9,290	8,714	8,325	8,122
GH	GH1	GH1FFP 0	0	64	4,332	10,157	17,736	19,154	18,156	17,246	16,412	15,591	14,769	13,948	13,127	12,305	11,484	10,897	10,545	10,193
GH	GH1	GH1SAM 0	0	122	562	1,006	1,964	2,121	2,010	1,909	1,817	1,726	1,635	1,544	1,453	1,362	1,271	1,206	1,167	1,128
GH	GH2	GH2FFP 0	0	0	2,787	7,280	15,016	18,298	17,569	16,777	16,056	15,369	14,684	13,998	13,313	12,627	11,942	11,257	10,791	10,556
GH	GH2	GH2SAM 0	0	11	724	984	935	891	851	814	779	744	709	674	639	605	570	546	535	523
GH	GH3	GH3FFP 0	0	0	0	3,571	8,804	18,270	21,813	20,853	19,901	19,030	18,199	17,369	16,538	15,708	14,877	14,047	13,216	12,647
GH	GH3	GH3SAM 0	0	115	565	1,578	1,935	1,853	1,769	1,691	1,618	1,544	1,471	1,397	1,324	1,250	1,177	1,126	1,099	1,073
GH	GH4	GH4FFP 0	0	0	0	2,843	7,668	14,952	21,319	20,238	19,257	18,361	17,541	16,757	15,973	15,188	14,404	13,619	12,835	12,050
GH	GH4	GH4SAM 0	0	122	527	974	1,948	1,967	1,872	1,786	1,707	1,631	1,555	1,479	1,403	1,328	1,252	1,176	1,124	1,096
MC	MC1	MC1FGD 0	0	0	2,360	7,268	12,372	21,934	23,856	22,601	21,453	20,399	19,360	18,320	17,281	16,242	15,203	14,164	13,412	12,949
MC	MC1	MC1FFP 0	0	0	1,271	5,238	9,364	17,796	19,361	18,343	17,414	16,559	15,717	14,875	14,032	13,190	12,348	11,506	10,896	10,520
MC	MC1	MC1SAM 0	0	0	0	42	560	1,131	1,232	1,168	1,109	1,055	1,001	948	895	841	788	735	696	672
MC	MC2	MC2FGD 0	0	0	2,361	7,270	12,377	23,214	24,770	23,450	22,238	21,119	20,015	18,911	17,806	16,702	15,598	14,494	13,677	13,148
MC	MC2	MC2FFP 0	0	0	1,215	5,051	9,134	18,426	19,666	18,620	17,659	16,772	15,896	15,021	14,145	13,270	12,395	11,519	10,871	10,450
MC	MC2	MC2SAM 0	0	0	0	42	560	1,197	1,279	1,211	1,149	1,092	1,035	978	922	865	808	752	710	682
MC	MC3	MC3FGDU 0	0	0	646	3,668	6,975	9,472	9,135	8,699	8,295	7,908	7,522	7,135	6,748	6,362	5,975	5,589	5,303	5,124
MC	MC3	MC3FGDR 0	0	0	0	0	39	175	207	197	187	179	170	162	154	145	137	128	121	115
MC	MC3	MC3FFP 0	0	0	0	3,730	8,326	13,896	18,276	17,601	16,757	15,977	15,228	14,480	13,732	12,985	12,237	11,489	10,742	10,190
MC	MC3	MC3SAM 0	0	0	734	1,992	2,100	1,997	1,901	1,813	1,728	1,642	1,557	1,472	1,387	1,302	1,217	1,155	1,116	1,077
MC	MC4	MC4FGD 0	0	379	6,987	15,193	21,072	28,573	27,555	26,231	25,008	23,834	22,662	21,491	20,319	19,147	17,976	16,804	15,940	15,402
MC	MC4	MC4SCR 0	0	105	667	724	688	655	625	596	566	537	508	479	449	420	399	386	372	359
MC	MC4	MC4FFP 0	0	377	5,055	10,178	14,629	19,836	19,129	18,210	17,361	16,546	15,733	14,919	14,106	13,293	12,479	11,666	11,066	10,692
MC	MC4	MC4SAM 0	0	0	0	578	1,620	2,201	2,123	2,022	1,929	1,839	1,749	1,660	1,570	1,480	1,391	1,301	1,235	1,193
TC	TC1	TC1FFP 0	0	0	0	2,200	5,745	11,967	15,834	15,223	14,502	13,838	13,200	12,564	11,927	11,291	10,654	10,018	9,381	8,918
CR	CR4	CR4FGD 0	0	394	3,222	13,574	27,295	25,773	24,370	23,071	21,861	20,666	19,471	18,276	17,081	15,886	14,691	13,773	13,130	12,488
CR	CR4	CR4SCR 0	64	390	2,395	6,163	10,786	10,183	9,627	9,112	8,633	8,160	7,687	7,214	6,740	6,267	5,794	5,431	5,177	4,924
CR	CR4	CR4FF 0	0	280	1,715	3,329	5,526	5,216	4,930	4,666	4,421	4,178	3,935	3,692	3,450	3,207	2,964	2,778	2,648	2,519
CR	CR4	CR4PAC 0	0	0	0	235	386	365	345	327	310	293	276	259	242	225	208	195	186	177
CR	CR4	CR4LIME 0	0	0	0	259	427	403	381	361	342	323	305	286	267	249	230	216	206	195
CR	CR5	CR5FGD 0	0	359	3,311	14,658	29,304	27,663	26,148	24,742	23,429	22,132	20,835	19,538	18,241	16,944	15,647	14,641	13,924	13,207
CR	CR5	CR5SCR 0	63	388	2,719	6,475	11,557	10,908	10,308	9,752	9,234	8,721	8,208	7,696	7,183	6,670	6,158	5,760	5,478	5,196
CR	CR5	CR5FF 0	0	300	1,823	3,531	5,992	5,654	5,343	5,054	4,785	4,519	4,253	3,987	3,721	3,455	3,189	2,983	2,837	2,691
CR	CR5	CR5PAC 0	0	0	0	251	423	399	378	357	338	320	301	282	263	245	226	212	201	191
CR	CR5	CR5LIME 0	0	0	0	278	468	441	417	395	374	353	333	312	291	271	250	234	222	211
CR	CR6	CR6FGD 0	0	346	3,887	18,407	35,115	33,170	31,385	29,739	28,213	26,706	25,199	23,692	22,185	20,678	19,171	18,033	17,265	16,496
CR	CR6	CR6SCR 0	79	1,294	4,201	8,457	14,206	13,414	12,689	12,019	11,399	10,787	10,175	9,563	8,951	8,339	7,727	7,266	6,956	6,646
CR	CR6	CR6FF 0	0	394	2,364	4,540	7,252	6,848	6,477	6,136	5,819	5,507	5,194	4,882	4,569	4,257	3,944	3,709	3,551	3,393
CR	CR6	CR6PAC 0	0	0	0	352	558	527	499	473	448	424	401	377	353	329	305	287	275	262
CR	CR6	CR6LIME 0	0	0	0	391	619	585	553	525	498	471	445	418	391	365	338	318	305	291
GR	GR3	GR3SFF 0	0	0	1,323	4,035	5,553	5,254	4,983	4,739	4,516	4,297	4,078	3,859	3,640	3,421	3,202	3,050	2,967	2,884
GR	GR3	GR3PAC 0	0	0	0	112	154	145	138	131	125	119	113	107	101	95	89	85	82	80
GR	GR4	GR4SFF 0	0	0	1,885	5,750	8,517	8,050	7,626	7,237	6,881	6,529	6,177	5,825	5,473	5,122	4,770	4,515	4,356	4,198
GR	GR4	GR4PAC 0	0	0	0	160	235	223	211	200	190	181	171	161	152	142	132	125	121	116

Station	Unit		2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045
BR	BR1	BR1FFP 0	6,908	6,716	6,525	6,333	6,141	5,950	5,758	5,566	5,375	5,183	4,991	4,800	4,608	4,417	4,225	4,033	3,842	3,650
BR	BR1	BR1SAM 0	299	291	282	274	266	257	249	241	232	224	216	208	199	191	183	174	166	158
BR	BR2	BR2FFP 0	7,455	7,242	7,028	6,815	6,602	6,388	6,175	5,962	5,749	5,535	5,322	5,109	4,895	4,682	4,469	4,256	4,042	3,829
BR	BR2	BR2SAM 0	298	290	281	273	264	256	247	239	230	222	213	205	196	187	179	170	162	153
BR	BR3	BR3FFP 0	7,920	7,717	7,514	7,311	7,109	6,906	6,703	6,501	6,298	6,095	5,893	5,690	5,487	5,284	5,082	4,879	4,676	4,474
GH	GH1	GH1FFP 0	9,841	9,489	9,137	8,785	8,433	8,081	7,729	7,377	7,025	6,673	6,321	5,969	2,424	0	0	0	0	0
GH	GH1	GH1SAM 0	1,089	1,050	1,011	972	933	894	855	816	777	738	699	661	268	0	0	0	0	0
GH	GH2	GH2FFP 0	10,330	10,104	9,878	9,652	9,425	9,199	8,973	8,747	8,521	8,295	8,069	7,843	7,617	7,391	7,165	6,939	6,713	6,486
GH	GH2	GH2SAM 0	511	500	488	476	464	453	441	429	418	406	394	383	371	359	348	336	324	312
GH	GH3	GH3FFP 0	12,344	12,047	11,750	11,452	11,155	10,858	10,561	10,263	9,966	9,669	9,372	9,075	8,777	8,480	8,183	7,886	7,588	7,291
GH	GH3	GH3SAM 0	1,047	1,020	994	967	941	915	888	862	835	809	782	756	730	703	677	650	624	598
GH	GH4	GH4FFP 0	11,513	11,223	10,932	10,642	10,352	10,061	9,771	9,481	9,190	8,900	8,610	8,319	8,029	7,739	7,448	7,158	6,867	6,577
GH	GH4	GH4SAM 0	1,068	1,039	1,011	983	955	927	899	870	842	814	786	758	730	701	673	645	617	589
MC	MC1	MC1FGD 0	12,485	12,022	11,558	11,095	10,631	10,167	9,704	9,240	8,777	8,313	7,850	3,188	0	0	0	0	0	0
MC	MC1	MC1FFP 0	10,143	9,767	9,390	9,013	8,637	8,260	7,884	7,507	7,130	6,754	6,377	2,590	0	0	0	0	0	0
MC	MC1	MC1SAM 0	648	624	600	576	552	528	504	480	455	431	407	165	0	0	0	0	0	0
MC	MC2	MC2FGD 0	12,618	12,088	11,558	11,028	10,499	9,969	9,439	8,909	2,908	0	0	0	0	0	0	0	0	0
MC	MC2	MC2FFP 0	10,029	9,608	9,187	8,766	8,344	7,923	7,502	7,081	2,311	0	0	0	0	0	0	0	0	0
MC	MC2	MC2SAM 0	655	627	600	572	545	517	490	462	151	0	0	0	0	0	0	0	0	0
MC	MC3	MC3FGDU 0	4,950	4,777	4,603	4,429	4,256	4,082	3,909	3,735	3,561	3,388	3,214	3,040	2,653	188	0	0	0	0
MC	MC3	MC3FGDR 0	111	107	104	100	96	92	88	85	81	77	73	69	64	44	0	0	0	0
MC	MC3	MC3FFP 0	9,844	9,510	9,175	8,841	8,506	8,172	7,837	7,503	7,168	6,834	6,499	6,165	5,830	4,673	341	0	0	0
MC	MC3	MC3SAM 0	1,039	1,000	961	923	884	846	807	768	730	691	652	213	0	0	0	0	0	0
MC	MC4	MC4FGD 0	14,880	14,358	13,836	13,314	12,792	12,270	11,748	11,226	10,705	10,183	9,661	9,139	7,976	573	0	0	0	0
MC	MC4	MC4SCR 0	346	332	319	306	292	279	266	252	239	226	92	0	0	0	0	0	0	0
MC	MC4	MC4FFP 0	10,330	9,968	9,605	9,243	8,881	8,518	8,156	7,794	7,431	7,069	6,707	6,344	5,537	398	0	0	0	0
MC	MC4	MC4SAM 0	1,153	1,112	1,072	1,031	991	951	910	870	829	789	748	708	618	44	0	0	0	0
TC	TC1	TC1FFP 0	8,637	8,363	8,089	7,815	7,541	7,267	6,993	6,719	6,445	6,171	5,897	5,623	5,349	5,075	4,801	4,186	261	0
CR	CR4	CR4FGD 0	11,845	11,203	10,560	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR4	CR4SCR 0	4,671	4,417	4,164	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR4	CR4FF 0	2,389	2,260	2,130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR4	CR4PAC 0	168	159	150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR4	CR4LIME 0	185	175	165	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR5	CR5FGD 0	12,490	11,774	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR5	CR5SCR 0	4,914	4,632	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR5	CR5FF 0	2,545	2,399	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR5	CR5PAC 0	180	170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR5	CR5LIME 0	199	188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR6	CR6FGD 0	15,727	14,959	14,190	13,421	12,653	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR6	CR6SCR 0	6,337	6,027	5,717	5,408	5,098	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR6	CR6FF 0	3,235	3,077	2,919	2,761	2,602	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR6	CR6PAC 0	250	238	226	213	201	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR6	CR6LIME 0	278	264	250	237	223	0	0	0	0	0	0	0	0	0	0	0	0	0
GR	GR3	GR3SFF 0	2,800	2,717	2,634	2,550	2,467	2,384	2,300	2,217	2,134	2,050	1,967	1,884	1,800	1,717	1,634	1,550	1,467	1,384
GR	GR3	GR3PAC 0	78	75	73	71	68	66	64	62	59	57	55	52	50	48	45	43	41	38
GR	GR4	GR4SFF 0	4,040	3,881	3,723	3,565	3,407	3,248	3,090	2,932	2,773	2,615	0	0	0	0	0	0	0	0
GR	GR4	GR4PAC 0	112	108	103	99	94	90	86	81	77	73	0	0	0	0	0	0	0	0

Station	Unit		2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059
BR	BR1	BR1FFP 0	3,458	3,267	1,327	0	0	0	0	0	0	0	0	0	0	0
BR	BR1	BR1SAM 0	150	141	57	0	0	0	0	0	0	0	0	0	0	0
BR	BR2	BR2FFP 0	3,616	1,180	0	0	0	0	0	0	0	0	0	0	0	0
BR	BR2	BR2SAM 0	145	47	0	0	0	0	0	0	0	0	0	0	0	0
BR	BR3	BR3FFP 0	4,271	4,068	3,865	3,663	3,460	1,405	0	0	0	0	0	0	0	0
GH	GH1	GH1FFP 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GH	GH1	GH1SAM 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GH	GH2	GH2FFP 0	6,260	6,034	5,808	5,582	5,356	5,130	4,904	4,678	4,452	4,226	4,000	3,489	253	0
GH	GH2	GH2SAM 0	301	289	277	266	254	242	231	219	207	196	0	0	0	0
GH	GH3	GH3FFP 0	6,994	6,697	6,400	6,102	5,805	5,508	5,211	4,152	214	0	0	0	0	0
GH	GH3	GH3SAM 0	571	545	518	492	465	405	21	0	0	0	0	0	0	0
GH	GH4	GH4FFP 0	6,287	5,996	5,706	5,416	5,125	4,835	0	0	0	0	0	0	0	0
GH	GH4	GH4SAM 0	561	532	504	476	117	0	0	0	0	0	0	0	0	0
MC	MC1	MC1FGD 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC1	MC1FFP 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC1	MC1SAM 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC2	MC2FGD 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC2	MC2FFP 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC2	MC2SAM 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC3	MC3FGDU 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC3	MC3FGDR 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC3	MC3FFP 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC3	MC3SAM 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC4	MC4FGD 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC4	MC4SCR 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC4	MC4FFP 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC4	MC4SAM 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TC	TC1	TC1FFP 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR4	CR4FGD 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR4	CR4SCR 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR4	CR4FF 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR4	CR4PAC 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR4	CR4LIME 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR5	CR5FGD 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR5	CR5SCR 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR5	CR5FF 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR5	CR5PAC 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR5	CR5LIME 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR6	CR6FGD 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR6	CR6SCR 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR6	CR6FF 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR6	CR6PAC 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR6	CR6LIME 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GR	GR3	GR3SFF 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GR	GR3	GR3PAC 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GR	GR4	GR4SFF 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GR	GR4	GR4PAC 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

		2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
	Retirement Cost											
	All Units	0	0	0	0	0	0	2100	0	0	0	0
	2% Escalation Rate											
	Unit Costs ($000)											
BR	BR1		3,816	4,811	3,969	4,049	4,130	4,212	4,296	4,382	4,470	4,559
BR	BR2		6,633	7,160	7,253	7,398	7,546	7,697	7,851	8,008	8,168	8,331
BR	BR3		15,885	20,876	14,904	15,202	15,506	15,816	16,132	16,455	16,784	17,120
CR	CR4		14,372	9,218	12,029	12,269	12,515	12,765	13,020	13,281	13,546	13,817
CR	CR5		11,842	9,889	12,791	13,047	13,308	13,574	13,845	14,122	14,405	14,693
CR	CR6		10,666	11,619	10,173	10,376	10,584	10,795	11,011	11,231	11,456	11,685
GH	GH1		17,829	19,141	17,966	18,325	18,691	19,065	19,447	19,835	20,232	20,637
GH	GH2		12,225	18,498	13,429	13,698	13,972	14,251	14,536	14,827	15,124	15,426
GH	GH3		17,961	13,501	12,475	12,724	12,979	13,238	13,503	13,773	14,049	14,330
GH	GH4		11,533	13,496	12,105	12,347	12,594	12,846	13,103	13,365	13,632	13,905
GR	GR3		4,270	5,792	4,360	4,447	4,536	4,627	4,719	4,813	4,910	5,008
GR	GR4		7,338	6,924	8,633	8,805	8,982	9,161	9,344	9,531	9,722	9,916
MC	MC1		11,892	17,333	12,669	12,923	13,181	13,445	13,714	13,988	14,268	14,553
MC	MC2		16,179	11,941	15,201	15,505	15,815	16,131	16,454	16,783	17,118	17,461
MC	MC3		18,313	14,238	17,221	17,566	17,917	18,275	18,641	19,014	19,394	19,782
MC	MC4		16,531	18,981	17,245	17,590	17,942	18,300	18,666	19,040	19,421	19,809
TC	TC1		17,205	15,170	17,403	17,751	18,106	18,468	18,837	19,214	19,598	19,990
TY	TY3		410	416	418	427	435	444	453	462	471	480

		2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
	Retirement Cost											
	All Units	0	0	0	0	0	0	0	0	0	0	0
2%	Escalation Rate											
	Unit Costs ($000)											
BR	BR1	4,651	4,744	4,838	4,935	5,034	5,135	5,237	5,342	5,449	5,558	5,669
BR	BR2	8,498	8,668	8,841	9,018	9,199	9,383	9,570	9,762	9,957	10,156	10,359
BR	BR3	17,462	17,811	18,167	18,531	18,901	19,279	19,665	20,058	20,460	20,869	21,286
CR	CR4	14,094	14,375	14,663	14,956	15,255	15,560	15,872	16,189	16,513	16,843	17,180
CR	CR5	14,987	15,286	15,592	15,904	16,222	16,546	16,877	17,215	17,559	17,910	18,269
CR	CR6	11,919	12,157	12,400	12,648	12,901	13,159	13,423	13,691	13,965	14,244	14,529
GH	GH1	21,050	21,471	21,900	22,338	22,785	23,240	23,705	24,179	24,663	25,156	25,659
GH	GH2	15,735	16,049	16,370	16,698	17,032	17,372	17,720	18,074	18,436	18,804	19,181
GH	GH3	14,616	14,909	15,207	15,511	15,821	16,138	16,460	16,790	17,125	17,468	17,817
GH	GH4	14,183	14,467	14,756	15,051	15,352	15,659	15,973	16,292	16,618	16,950	17,289
GR	GR3	5,108	5,210	5,314	5,421	5,529	5,640	5,753	5,868	5,985	6,105	6,227
GR	GR4	10,115	10,317	10,523	10,734	10,949	11,167	11,391	11,619	11,851	12,088	12,330
MC	MC1	14,844	15,141	15,444	15,753	16,068	16,389	16,717	17,051	17,392	17,740	18,095
MC	MC2	17,810	18,166	18,530	18,900	19,278	19,664	20,057	20,458	20,867	21,285	21,710
MC	MC3	20,177	20,581	20,993	21,412	21,841	22,278	22,723	23,178	23,641	24,114	24,596
MC	MC4	20,205	20,609	21,021	21,442	21,871	22,308	22,754	23,209	23,674	24,147	24,630
TC	TC1	20,390	20,798	21,214	21,638	22,071	22,512	22,962	23,422	23,890	24,368	24,855
TY	TY3	490	500	510	520	530	541	552	563	574	586	597

		2032	2033	2034	2035	2036	2037	2038	2039	2040
	Retirement Cost									
	All Units	0	0	0	0	0	0	0	0	0
	2% Escalation Rate									
	Unit Costs ($000)									
BR	BR1	5,782	5,898	6,016	6,136	6,259	6,384	6,512	6,642	6,775
BR	BR2	10,566	10,778	10,993	11,213	11,437	11,666	11,899	12,137	12,380
BR	BR3	21,712	22,146	22,589	23,041	23,502	23,972	24,451	24,940	25,439
CR	CR4	17,524	17,874	18,232	18,596	18,968	19,347	19,734	20,129	20,532
CR	CR5	18,634	19,007	19,387	19,775	20,170	20,573	20,985	21,405	21,833
CR	CR6	14,820	15,116	15,418	15,727	16,041	16,362	16,689	17,023	17,364
GH	GH1	26,172	26,696	27,230	27,774	28,330	28,897	29,474	30,064	30,665
GH	GH2	19,564	19,955	20,355	20,762	21,177	21,600	22,032	22,473	22,923
GH	GH3	18,174	18,537	18,908	19,286	19,672	20,065	20,466	20,876	21,293
GH	GH4	17,635	17,988	18,347	18,714	19,089	19,470	19,860	20,257	20,662
GR	GR3	6,351	6,478	6,608	6,740	6,875	7,012	7,153	7,296	7,442
GR	GR4	12,576	12,828	13,084	13,346	13,613	13,885	14,163	14,446	14,735
MC	MC1	18,457	18,826	19,202	19,586	19,978	20,378	20,785	21,201	21,625
MC	MC2	22,145	22,587	23,039	23,500	23,970	24,449	24,938	25,437	25,946
MC	MC3	25,088	25,590	26,102	26,624	27,156	27,699	28,253	28,818	29,395
MC	MC4	25,123	25,625	26,138	26,660	27,194	27,737	28,292	28,858	29,435
TC	TC1	25,352	25,859	26,377	26,904	27,442	27,991	28,551	29,122	29,704
TY	TY3	609	622	634	647	660	673	686	700	714

Escalation Rate: 2% Year $: 2010

		Month	Year	Equipment	Fixed O&M $/yr	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
BR	BR1	5	2014	PJFF/PAC		0	0	0	598,882	610,860	623,077	635,538	648,249	661,214	674,439	687,927	701,686
BR	BR1	5	2014	SAM Mitigation		0	0	0	78,540	137,333	140,079	142,881	145,739	148,653	151,627	154,659	157,752
BR	BR2	4	2014	PJFF/PAC		0	0	0	714,168	728,451	743,020	757,880	773,038	788,499	804,269	820,354	836,761
BR	BR2	4	2014	SAM Mitigation		0	0	0	134,640	137,333	140,079	142,881	145,739	148,653	151,627	154,659	157,752
BR	BR3	5	2015	PJFF/PAC		0	0	0	0	1,067,560	1,088,911	1,110,689	1,132,903	1,155,561	1,178,672	1,202,245	1,226,290
GH	GH1	5	2014	PJFF/PAC		0	0	0	1,293,082	1,318,944	1,345,322	1,372,229	1,399,673	1,427,667	1,456,220	1,485,345	1,515,052
GH	GH1	5	2014	SCR Turn-Down		0	0	0	0	0	0	0	0	0	0	0	0
GH	GH1	2	2013	SAM Mitigation		0	0	0	4,899	0	0	0	0	0	0	0	0
GH	GH2	11	2014	PJFF/PAC		0	0	0	777,600	1,586,304	1,618,030	1,650,391	1,683,399	1,717,067	1,751,408	1,786,436	1,822,165
GH	GH2	12	2012	Sorbent Injection		0	8,064	98,700	100,674	102,687	104,741	106,836	108,973	111,152	113,375	115,643	117,956
GH	GH3	10	2015	PJFF/PAC		0	0	0	0	652,436	1,330,969	1,357,589	1,384,741	1,412,435	1,440,684	1,469,498	1,498,888
GH	GH3	11	2013	SCR Turn-Down		0	0	0	0	0	0	0	0	0	0	0	0
GH	GH3	2	2013	SAM Mitigation		0	0	0	0	0	0	0	0	0	0	0	0
GH	GH4	12	2015	PJFF/PAC		0	0	0	0	631,870	1,289,014	1,314,795	1,341,091	1,367,912	1,395,271	1,423,176	1,451,640
GH	GH4	3	2014	SCR Turn-Down		0	0	0	0	0	0	0	0	0	0	0	0
GH	GH4	2	2013	SAM Mitigation		0	0	0	0	0	0	0	0	0	0	0	0
MC	MC1	5	2015	Combined 1&2 FGD		0	0	0	0	-238,642	-219,636	-200,250	-180,476	-160,306	-139,733	-118,749	-121,124
MC	MC1	5	2015	PJFF/PAC		0	0	0	0	1,446,222	1,475,147	1,504,650	1,534,743	1,565,438	1,596,746	1,628,681	1,661,255
MC	MC1	5	2015	SAM Mitigation		0	0	0	0	22,100	38,643	39,416	40,204	41,008	41,828	42,665	43,518
MC	MC2	4	2015	Combined 1&2 FGD		0	0	0	0	186,506	205,512	224,899	244,673	264,842	285,415	306,400	312,528
MC	MC2	4	2015	PJFF/PAC		0	0	0	0	1,418,867	1,447,245	1,476,189	1,505,713	1,535,828	1,566,544	1,597,875	1,629,832
MC	MC2	4	2015	SAM Mitigation		0	0	0	0	25,257	38,643	39,416	40,204	41,008	41,828	42,665	43,518
MC	MC3	11	2014	FGD		0	0	0	0	0	0	0	0	0	0	0	0
MC	MC3	10	2015	PJFF/PAC		0	0	0	0	646,753	1,319,377	1,345,764	1,372,679	1,400,133	1,428,136	1,456,698	1,485,832
MC	MC3	4	2013	SAM Mitigation		0	0	24,068	36,824	37,560	38,312	39,078	39,859	40,657	41,470	42,299	43,145
MC	MC3	4	2013	SCR Turn-Down		0	0	0	0	0	0	0	0	0	0	0	0
MC	MC4	11	2014	FGD		0	0	0	0	0	0	0	0	0	0	0	0
MC	MC4	11	2014	PJFF/PAC		0	0	0	743,376	1,516,487	1,546,817	1,577,754	1,609,309	1,641,495	1,674,325	1,707,811	1,741,967
MC	MC4	11	2014	SAM Mitigation		0	0	0	3,095	37,885	38,643	39,416	40,204	41,008	41,828	42,665	43,518
MC	MC4	11	2014	SCR Turn-Down		0	0	0	0	0	0	0	0	0	0	0	0
TC	TC1	11	2015	PJFF/PAC		0	0	0	0	493,761	1,007,273	1,027,418	1,047,966	1,068,926	1,090,304	1,112,110	1,134,353
CR	CR4	1	2016	SCR	1,871,000	0	0	0	0	0	2,107,050	2,149,191	2,192,175	2,236,018	2,280,739	2,326,353	2,372,880
CR	CR4	1	2016	WFGD		0	0	0	0	0	0	0	0	0	0	0	0
CR	CR4	1	2016	PJFF	1,191,000	0	0	0	0	0	1,341,259	1,368,085	1,395,446	1,423,355	1,451,822	1,480,859	1,510,476
CR	CR4	1	2016	SAM Mitigation	174,000	0	0	0	0	0	195,952	199,871	203,869	207,946	212,105	216,347	220,674
CR	CR4	1	2016	PAC Injection	169,000	0	0	0	0	0	190,321	194,128	198,010	201,971	206,010	210,130	214,333
CR	CR5	1	2016	SCR	1,993,000	0	0	0	0	0	2,244,442	2,289,331	2,335,117	2,381,819	2,429,456	2,478,045	2,527,606
CR	CR5	1	2016	WFGD		0	0	0	0	0	0	0	0	0	0	0	0
CR	CR5	1	2016	PJFF	1,251,000	0	0	0	0	0	1,408,829	1,437,006	1,465,746	1,495,061	1,524,962	1,555,461	1,586,570
CR	CR5	1	2016	SAM Mitigation	177,000	0	0	0	0	0	199,331	203,317	207,384	211,531	215,762	220,077	224,479
CR	CR5	1	2016	PAC Injection	172,000	0	0	0	0	0	193,700	197,574	201,525	205,556	209,667	213,860	218,138
CR	CR6	1	2016	SCR	2,392,000	0	0	0	0	0	2,693,781	2,747,656	2,802,609	2,858,661	2,915,835	2,974,151	3,033,634
CR	CR6	1	2016	WFGD		0	0	0	0	0	0	0	0	0	0	0	0
CR	CR6	1	2016	PJFF	1,632,000	0	0	0	0	0	1,837,897	1,874,655	1,912,148	1,950,391	1,989,399	2,029,187	2,069,771
CR	CR6	1	2016	SAM Mitigation	198,000	0	0	0	0	0	222,980	227,440	231,989	236,628	241,361	246,188	251,112
CR	CR6	1	2016	PAC Injection	191,000	0	0	0	0	0	215,097	219,399	223,787	228,263	232,828	237,484	242,234
GR	GR3	1	2016	SCR	0	0	0	0	0	0	0	0	0	0	0	0	0

	Escalation Rate:		2%	Year $:	2010													
					Fixed O&M													
		Month	Year	Equipment	$/yr	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
GR	GR3	1	2016	CDS-FF	3,322,000	0	0	0	0	0	3,741,112	3,815,934	3,892,252	3,970,098	4,049,499	4,130,489	4,213,099
GR	GR3	1	2016	PAC Injection	141,000	0	0	0	0	0	158,789	161,965	165,204	168,508	171,878	175,316	178,822
GR	GR4	1	2016	SCR	0	0	0	0	0	0	0	0	0	0	0	0	0
GR	GR4	1	2016	CDS-FF	4,309,000	0	0	0	0	0	4,852,634	4,949,687	5,048,680	5,149,654	5,252,647	5,357,700	5,464,854
GR	GR4	1	2016	PAC Injection	150,000	0	0	0	0	0	168,924	172,303	175,749	179,264	182,849	186,506	190,236

Escalation Rate: 2% Year $: 2010

		Month	Year	Equipment	Fixed O&M $/yr	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
BR	BR1	5	2014	PJFF/PAC		715,720	730,034	744,635	759,527	774,718	790,212	806,016	822,137	838,580	855,351	872,458	889,907
BR	BR1	5	2014	SAM Mitigation		160,907	164,125	167,408	170,756	174,171	177,655	181,208	184,832	188,529	192,299	196,145	200,068
BR	BR2	4	2014	PJFF/PAC		853,496	870,566	887,978	905,737	923,852	942,329	961,175	980,399	1,000,007	1,020,007	1,040,407	1,061,215
BR	BR2	4	2014	SAM Mitigation		160,907	164,125	167,408	170,756	174,171	177,655	181,208	184,832	188,529	192,299	196,145	200,068
BR	BR3	5	2015	PJFF/PAC		1,250,816	1,275,832	1,301,349	1,327,376	1,353,924	1,381,002	1,408,622	1,436,795	1,465,530	1,494,841	1,524,738	1,555,233
GH	GH1	5	2014	PJFF/PAC		1,545,353	1,576,260	1,607,785	1,639,941	1,672,739	1,706,194	1,740,318	1,775,124	1,810,627	1,846,839	1,883,776	1,921,452
GH	GH1	5	2014	SCR Turn-Down		0	0	0	0	0	0	0	0	0	0	0	0
GH	GH1	2	2013	SAM Mitigation		0	0	0	0	0	0	0	0	0	0	0	0
GH	GH2	11	2014	PJFF/PAC		1,858,608	1,895,781	1,933,696	1,972,370	2,011,817	2,052,054	2,093,095	2,134,957	2,177,656	2,221,209	2,265,633	2,310,946
GH	GH2	12	2012	Sorbent Injection		120,315	122,721	125,175	127,679	130,232	132,837	135,494	138,204	140,968	143,787	146,663	149,596
GH	GH3	10	2015	PJFF/PAC		1,528,865	1,559,443	1,590,632	1,622,444	1,654,893	1,687,991	1,721,751	1,756,186	1,791,310	1,827,136	1,863,678	1,900,952
GH	GH3	11	2013	SCR Turn-Down		0	0	0	0	0	0	0	0	0	0	0	0
GH	GH3	2	2013	SAM Mitigation		0	0	0	0	0	0	0	0	0	0	0	0
GH	GH4	12	2015	PJFF/PAC		1,480,672	1,510,286	1,540,491	1,571,301	1,602,727	1,634,782	1,667,477	1,700,827	1,734,844	1,769,540	1,804,931	1,841,030
GH	GH4	3	2014	SCR Turn-Down		0	0	0	0	0	0	0	0	0	0	0	0
GH	GH4	2	2013	SAM Mitigation		0	0	0	0	0	0	0	0	0	0	0	0
MC	MC1	5	2015	Combined 1&2 FGD		-123,546	-126,017	-128,537	-131,108	-133,730	-136,405	-139,133	-141,916	-144,754	-147,649	-150,602	-153,614
MC	MC1	5	2015	PJFF/PAC		1,694,480	1,728,370	1,762,937	1,798,196	1,834,160	1,870,843	1,908,260	1,946,425	1,985,354	2,025,061	2,065,562	2,106,873
MC	MC1	5	2015	SAM Mitigation		44,388	45,276	46,182	47,105	48,047	49,008	49,989	50,988	52,008	53,048	54,109	55,191
MC	MC2	4	2015	Combined 1&2 FGD		318,778	325,154	331,657	338,290	345,056	351,957	358,996	366,176	373,499	380,969	388,589	396,361
MC	MC2	4	2015	PJFF/PAC		1,662,429	1,695,678	1,729,591	1,764,183	1,799,467	1,835,456	1,872,165	1,909,608	1,947,801	1,986,757	2,026,492	2,067,022
MC	MC2	4	2015	SAM Mitigation		44,388	45,276	46,182	47,105	48,047	49,008	49,989	50,988	52,008	53,048	54,109	55,191
MC	MC3	11	2014	FGD		0	0	0	0	0	0	0	0	0	0	0	0
MC	MC3	10	2015	PJFF/PAC		1,515,549	1,545,860	1,576,777	1,608,313	1,640,479	1,673,288	1,706,754	1,740,889	1,775,707	1,811,221	1,847,446	1,884,395
MC	MC3	4	2013	SAM Mitigation		44,008	44,888	45,786	46,702	47,636	48,588	49,560	50,551	51,562	52,594	53,645	54,718
MC	MC3	4	2013	SCR Turn-Down		0	0	0	0	0	0	0	0	0	0	0	0
MC	MC4	11	2014	FGD		0	0	0	0	0	0	0	0	0	0	0	0
MC	MC4	11	2014	PJFF/PAC		1,776,807	1,812,343	1,848,590	1,885,562	1,923,273	1,961,738	2,000,973	2,040,992	2,081,812	2,123,449	2,165,918	2,209,236
MC	MC4	11	2014	SAM Mitigation		44,388	45,276	46,182	47,105	48,047	49,008	49,989	50,988	52,008	53,048	54,109	55,191
MC	MC4	11	2014	SCR Turn-Down		0	0	0	0	0	0	0	0	0	0	0	0
TC	TC1	11	2015	PJFF/PAC		1,157,040	1,180,180	1,203,784	1,227,860	1,252,417	1,277,465	1,303,015	1,329,075	1,355,656	1,382,769	1,410,425	1,438,633
CR	CR4	1	2016	SCR	1,871,000	2,420,338	2,468,745	2,518,120	2,568,482	2,619,852	2,672,249	2,725,694	2,780,208	2,835,812	2,892,528	2,950,379	3,009,386
CR	CR4	1	2016	WFGD		0	0	0	0	0	0	0	0	0	0	0	0
CR	CR4	1	2016	PJFF	1,191,000	1,540,685	1,571,499	1,602,929	1,634,988	1,667,688	1,701,041	1,735,062	1,769,763	1,805,159	1,841,262	1,878,087	1,915,649
CR	CR4	1	2016	SAM Mitigation	174,000	225,088	229,589	234,181	238,865	243,642	248,515	253,485	258,555	263,726	269,000	274,380	279,868
CR	CR4	1	2016	PAC Injection	169,000	218,620	222,992	227,452	232,001	236,641	241,374	246,201	251,125	256,148	261,271	266,496	271,826
CR	CR5	1	2016	SCR	1,993,000	2,578,158	2,629,721	2,682,316	2,735,962	2,790,681	2,846,495	2,903,425	2,961,493	3,020,723	3,081,137	3,142,760	3,205,615
CR	CR5	1	2016	WFGD		0	0	0	0	0	0	0	0	0	0	0	0
CR	CR5	1	2016	PJFF	1,251,000	1,618,302	1,650,668	1,683,681	1,717,355	1,751,702	1,786,736	1,822,471	1,858,920	1,896,099	1,934,021	1,972,701	2,012,155
CR	CR5	1	2016	SAM Mitigation	177,000	228,968	233,548	238,219	242,983	247,843	252,800	257,856	263,013	268,273	273,638	279,111	284,693
CR	CR5	1	2016	PAC Injection	172,000	222,500	226,950	231,489	236,119	240,842	245,658	250,572	255,583	260,695	265,909	271,227	276,651
CR	CR6	1	2016	SCR	2,392,000	3,094,307	3,156,193	3,219,317	3,283,703	3,349,377	3,416,365	3,484,692	3,554,386	3,625,474	3,697,983	3,771,943	3,847,382
CR	CR6	1	2016	WFGD		0	0	0	0	0	0	0	0	0	0	0	0
CR	CR6	1	2016	PJFF	1,632,000	2,111,166	2,153,389	2,196,457	2,240,386	2,285,194	2,330,898	2,377,516	2,425,066	2,473,567	2,523,039	2,573,500	2,624,970
CR	CR6	1	2016	SAM Mitigation	198,000	256,134	261,257	266,482	271,812	277,248	282,793	288,449	294,218	300,102	306,104	312,226	318,471
CR	CR6	1	2016	PAC Injection	191,000	247,079	252,020	257,061	262,202	267,446	272,795	278,251	283,816	289,492	295,282	301,188	307,212
GR	GR3	1	2016	SCR	0	0	0	0	0	0	0	0	0	0	0	0	0

Escalation Rate: 2% Year $: 2010

		Month	Year	Equipment	Fixed O&M $/yr	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
GR	GR3	1	2016	CDS-FF	3,322,000	4,297,361	4,383,308	4,470,975	4,560,394	4,651,602	4,744,634	4,839,527	4,936,317	5,035,044	5,135,744	5,238,459	5,343,229
GR	GR3	1	2016	PAC Injection	141,000	182,399	186,047	189,767	193,563	197,434	201,383	205,410	209,519	213,709	217,983	222,343	226,790
GR	GR4	1	2016	SCR	0	0	0	0	0	0	0	0	0	0	0	0	0
GR	GR4	1	2016	CDS-FF	4,309,000	5,574,151	5,685,634	5,799,347	5,915,334	6,033,640	6,154,313	6,277,399	6,402,947	6,531,006	6,661,626	6,794,859	6,930,756
GR	GR4	1	2016	PAC Injection	150,000	194,041	197,922	201,880	205,918	210,036	214,237	218,522	222,892	227,350	231,897	236,535	241,266

Escalation Rate: 2% Year $: 2010

		Month	Year	Equipment	Fixed O&M $/yr	2035	2036	2037	2038	2039	2040
BR	BR1	5	2014	PJFF/PAC		907,705	925,860	944,377	963,264	982,530	1,002,180
BR	BR1	5	2014	SAM Mitigation		204,069	208,151	212,314	216,560	220,891	225,309
BR	BR2	4	2014	PJFF/PAC		1,082,440	1,104,088	1,126,170	1,148,694	1,171,668	1,195,101
BR	BR2	4	2014	SAM Mitigation		204,069	208,151	212,314	216,560	220,891	225,309
BR	BR3	5	2015	PJFF/PAC		1,586,337	1,618,064	1,650,425	1,683,434	1,717,103	1,751,445
GH	GH1	5	2014	PJFF/PAC		1,959,881	1,999,078	2,039,060	2,079,841	2,121,438	2,163,867
GH	GH1	5	2014	SCR Turn-Down		0	0	0	0	0	0
GH	GH1	2	2013	SAM Mitigation		0	0	0	0	0	0
GH	GH2	11	2014	PJFF/PAC		2,357,165	2,404,308	2,452,394	2,501,442	2,551,471	2,602,500
GH	GH2	12	2012	Sorbent Injection		152,588	155,640	158,753	161,928	165,166	168,470
GH	GH3	10	2015	PJFF/PAC		1,938,971	1,977,751	2,017,306	2,057,652	2,098,805	2,140,781
GH	GH3	11	2013	SCR Turn-Down		0	0	0	0	0	0
GH	GH3	2	2013	SAM Mitigation		0	0	0	0	0	0
GH	GH4	12	2015	PJFF/PAC		1,877,850	1,915,407	1,953,716	1,992,790	2,032,646	2,073,299
GH	GH4	3	2014	SCR Turn-Down		0	0	0	0	0	0
GH	GH4	2	2013	SAM Mitigation		0	0	0	0	0	0
MC	MC1	5	2015	Combined 1&2 FGD		-156,686	-159,820	-163,017	-166,277	-169,602	-172,994
MC	MC1	5	2015	PJFF/PAC		2,149,010	2,191,991	2,235,831	2,280,547	2,326,158	2,372,681
MC	MC1	5	2015	SAM Mitigation		56,295	57,421	58,570	59,741	60,936	62,155
MC	MC2	4	2015	Combined 1&2 FGD		404,288	412,374	420,621	429,033	437,614	446,366
MC	MC2	4	2015	PJFF/PAC		2,108,362	2,150,529	2,193,540	2,237,411	2,282,159	2,327,802
MC	MC2	4	2015	SAM Mitigation		56,295	57,421	58,570	59,741	60,936	62,155
MC	MC3	11	2014	FGD		0	0	0	0	0	0
MC	MC3	10	2015	PJFF/PAC		1,922,083	1,960,524	1,999,735	2,039,729	2,080,524	2,122,134
MC	MC3	4	2013	SAM Mitigation		55,813	56,929	58,068	59,229	60,414	61,622
MC	MC3	4	2013	SCR Turn-Down		0	0	0	0	0	0
MC	MC4	11	2014	FGD		0	0	0	0	0	0
MC	MC4	11	2014	PJFF/PAC		2,253,421	2,298,489	2,344,459	2,391,348	2,439,175	2,487,958
MC	MC4	11	2014	SAM Mitigation		56,295	57,421	58,570	59,741	60,936	62,155
MC	MC4	11	2014	SCR Turn-Down		0	0	0	0	0	0
TC	TC1	11	2015	PJFF/PAC		1,467,406	1,496,754	1,526,689	1,557,223	1,588,367	1,620,135
CR	CR4	1	2016	SCR	1,871,000	3,069,574	3,130,965	3,193,585	3,257,456	3,322,605	3,389,058
CR	CR4	1	2016	WFGD		0	0	0	0	0	0
CR	CR4	1	2016	PJFF	1,191,000	1,953,962	1,993,041	2,032,902	2,073,560	2,115,031	2,157,332
CR	CR4	1	2016	SAM Mitigation	174,000	285,465	291,175	296,998	302,938	308,997	315,177
CR	CR4	1	2016	PAC Injection	169,000	277,262	282,808	288,464	294,233	300,118	306,120
CR	CR5	1	2016	SCR	1,993,000	3,269,728	3,335,122	3,401,825	3,469,861	3,539,258	3,610,044
CR	CR5	1	2016	WFGD		0	0	0	0	0	0
CR	CR5	1	2016	PJFF	1,251,000	2,052,398	2,093,446	2,135,315	2,178,021	2,221,582	2,266,013
CR	CR5	1	2016	SAM Mitigation	177,000	290,387	296,195	302,119	308,161	314,325	320,611
CR	CR5	1	2016	PAC Injection	172,000	282,184	287,828	293,584	299,456	305,445	311,554
CR	CR6	1	2016	SCR	2,392,000	3,924,330	4,002,816	4,082,872	4,164,530	4,247,820	4,332,777
CR	CR6	1	2016	WFGD		0	0	0	0	0	0
CR	CR6	1	2016	PJFF	1,632,000	2,677,469	2,731,018	2,785,639	2,841,352	2,898,179	2,956,142
CR	CR6	1	2016	SAM Mitigation	198,000	324,840	331,337	337,964	344,723	351,617	358,650
CR	CR6	1	2016	PAC Injection	191,000	313,356	319,623	326,015	332,536	339,186	345,970
GR	GR3	1	2016	SCR	0	0	0	0	0	0	0

	Escalation Rate:		2%	Year $:	2010						
					Fixed O&M						
		Month	Year	Equipment	$/yr	2035	2036	2037	2038	2039	2040
GR	GR3	1	2016	CDS-FF	3,322,000	5,450,093	5,559,095	5,670,277	5,783,682	5,899,356	6,017,343
GR	GR3	1	2016	PAC Injection	141,000	231,325	235,952	240,671	245,484	250,394	255,402
GR	GR4	1	2016	SCR	0	0	0	0	0	0	0
GR	GR4	1	2016	CDS-FF	4,309,000	7,069,371	7,210,759	7,354,974	7,502,073	7,652,115	7,805,157
GR	GR4	1	2016	PAC Injection	150,000	246,091	251,013	256,033	261,154	266,377	271,704

			$000																	
Station	Unit	Capacity	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
BR	BR1	101	69	164	256	346	434	520	605	689	771	852	931	1,008	1,085	1,163	1,241	1,320	1,399	1,479
BR	BR2	167	114	271	423	571	717	860	1,001	1,139	1,275	1,408	1,539	1,667	1,794	1,922	2,052	2,182	2,313	2,446
BR	BR3	416	285	675	1,053	1,423	1,786	2,143	2,493	2,838	3,176	3,508	3,834	4,153	4,469	4,789	5,111	5,435	5,762	6,092
CR	CR4	155	77	204	327	447	564	678	790	899	1,006	1,109	1,210	1,308	1,405	1,501	1,596	1,691	1,786	1,880
CR	CR5	168	84	221	355	485	611	735	856	975	1,090	1,202	1,312	1,418	1,522	1,626	1,730	1,833	1,936	2,038
CR	CR6	240	120	316	507	692	873	1,050	1,223	1,392	1,557	1,718	1,874	2,026	2,175	2,324	2,471	2,619	2,765	2,911
GH	GH1	475	510	1,206	1,884	2,548	3,200	3,843	4,477	5,101	5,717	6,322	6,918	7,504	8,080	8,653	9,231	9,814	10,402	10,995
GH	GH2	484	520	1,228	1,920	2,596	3,261	3,916	4,562	5,198	5,825	6,442	7,049	7,646	8,233	8,817	9,405	9,999	10,599	11,204
GH	GH3	480	516	1,218	1,904	2,575	3,234	3,883	4,524	5,155	5,777	6,389	6,991	7,583	8,165	8,744	9,328	9,917	10,511	11,111
GH	GH4	479	515	1,216	1,900	2,570	3,227	3,875	4,514	5,144	5,765	6,376	6,977	7,567	8,148	8,726	9,308	9,896	10,489	11,088
GR	GR3	68	39	96	151	205	258	309	360	410	458	506	553	598	643	689	734	780	825	871
GR	GR4	95	55	134	211	286	360	432	503	572	640	707	772	836	899	962	1,026	1,089	1,153	1,217
MC	MC1	303	309	767	1,213	1,649	2,077	2,497	2,910	3,315	3,714	4,104	4,487	4,862	5,229	5,592	5,956	6,320	6,686	7,053
MC	MC2	301	307	762	1,205	1,639	2,063	2,480	2,891	3,294	3,689	4,077	4,458	4,830	5,194	5,555	5,916	6,279	6,642	7,007
MC	MC3	391	398	989	1,565	2,128	2,680	3,222	3,755	4,278	4,792	5,296	5,790	6,274	6,747	7,216	7,685	8,156	8,628	9,102
MC	MC4	477	486	1,207	1,910	2,597	3,270	3,931	4,581	5,219	5,846	6,461	7,064	7,654	8,231	8,803	9,376	9,950	10,526	11,103
TC	TC1	383	115	270	420	567	712	855	996	1,135	1,272	1,407	1,539	1,670	1,799	1,927	2,057	2,188	2,320	2,453
TC	TC2	549	166	386	602	813	1,021	1,225	1,427	1,626	1,823	2,016	2,207	2,394	2,579	2,762	2,948	3,136	3,325	3,517
TY	TY3	71	94	233	368	499	628	754	878	999	1,118	1,234	1,347	1,458	1,568	1,677	1,787	1,898	2,008	2,119

2.50% Capital Escalation Rate

2011 CR	281	454	428	405	384	364	344	325	305	285	266	246	231	221	211	200	190	180
2012 CR		288	465	439	415	394	373	353	333	313	293	272	252	237	226	216	205	195
2013 CR			295	477	450	426	403	382	362	341	321	300	279	259	243	232	221	210
2014 CR				303	489	461	436	413	392	371	350	329	307	286	265	249	238	227
2015 CR					310	501	473	447	424	402	380	358	337	315	293	272	255	244
2016 CR						318	513	485	459	434	412	390	367	345	323	301	279	262
2017 CR							326	526	497	470	445	422	399	377	354	331	308	286
2018 CR								334	539	509	482	456	433	409	386	363	339	316
2019 CR									342	553	522	494	468	444	420	396	372	348
2020 CR										351	567	535	506	479	455	430	406	381
2021 CR											360	581	548	519	491	466	441	416
2022 CR												369	595	562	532	504	478	452
2023 CR													378	610	576	545	516	490
2024 CR														387	625	591	559	529
2025 CR															397	641	605	573
2026 CR																407	657	621
2027 CR																	417	673
2028 CR																		428
2029 CR																		
2030 CR																		
2031 CR																		
2032 CR																		
2033 CR																		
2034 CR																		
2035 CR																		
2036 CR																		
2037 CR																		
2038 CR																		

$000

Station	Unit	Capacity	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
	2039	CR																		
	2040	CR																		
	2011	MC	1,499	2,188	2,076	1,972	1,877	1,788	1,703	1,617	1,532	1,447	1,361	1,276	1,191	1,128	1,089	1,049	1,010	970
	2012	MC		1,536	2,243	2,128	2,021	1,923	1,833	1,745	1,658	1,570	1,483	1,395	1,308	1,221	1,157	1,116	1,075	1,035
	2013	MC			1,575	2,299	2,181	2,072	1,972	1,878	1,789	1,699	1,610	1,520	1,430	1,341	1,251	1,185	1,144	1,102
	2014	MC				1,614	2,357	2,235	2,124	2,021	1,925	1,834	1,742	1,650	1,558	1,466	1,374	1,282	1,215	1,173
	2015	MC					1,655	2,416	2,291	2,177	2,071	1,974	1,879	1,785	1,691	1,597	1,503	1,409	1,314	1,245
	2016	MC						1,696	2,476	2,348	2,231	2,123	2,023	1,926	1,830	1,733	1,637	1,540	1,444	1,347
	2017	MC							1,738	2,538	2,407	2,287	2,176	2,073	1,975	1,876	1,777	1,678	1,579	1,480
	2018	MC								1,782	2,601	2,467	2,344	2,231	2,125	2,024	1,922	1,821	1,720	1,618
	2019	MC									1,826	2,666	2,529	2,403	2,286	2,178	2,075	1,971	1,867	1,763
	2020	MC										1,872	2,733	2,592	2,463	2,344	2,233	2,126	2,020	1,913
	2021	MC											1,919	2,801	2,657	2,524	2,402	2,289	2,180	2,070
	2022	MC												1,967	2,871	2,723	2,588	2,462	2,346	2,234
	2023	MC													2,016	2,943	2,792	2,652	2,524	2,405
	2024	MC														2,066	3,017	2,861	2,719	2,587
	2025	MC															2,118	3,092	2,933	2,787
	2026	MC																2,171	3,170	3,006
	2027	MC																	2,225	3,249
	2028	MC																		2,281
	2029	MC																		
	2030	MC																		
	2031	MC																		
	2032	MC																		
	2033	MC																		
	2034	MC																		
	2035	MC																		
	2036	MC																		
	2037	MC																		
	2038	MC																		
	2039	MC																		
	2040	MC																		
	2011	TC	281	368	350	333	318	304	291	278	264	251	238	225	211	203	198	193	189	184
	2012	TC		288	377	358	341	326	312	298	284	271	257	244	230	217	208	203	198	193
	2013	TC			295	387	367	350	334	319	305	292	278	264	250	236	222	213	208	203
	2014	TC				303	396	376	359	342	327	313	299	285	270	256	242	228	218	213
	2015	TC					310	406	386	368	351	336	321	306	292	277	263	248	233	224
	2016	TC						318	416	396	377	360	344	329	314	299	284	269	254	239
	2017	TC							326	427	405	386	369	353	337	322	307	291	276	261
	2018	TC								334	437	416	396	378	361	346	330	314	298	283
	2019	TC									342	448	426	406	387	370	354	338	322	306
	2020	TC										351	460	437	416	397	380	363	347	330
	2021	TC											360	471	447	426	407	389	372	355
	2022	TC												369	483	459	437	417	399	381
	2023	TC													378	495	470	448	427	409
	2024	TC														387	507	482	459	438
	2025	TC															397	520	494	470
	2026	TC																407	533	506
	2027	TC																	417	546
	2028	TC																		428
	2029	TC																		

Station	Unit	Capacity	$000 2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
	2030	TC																		
	2031	TC																		
	2032	TC																		
	2033	TC																		
	2034	TC																		
	2035	TC																		
	2036	TC																		
	2037	TC																		
	2038	TC																		
	2039	TC																		
	2040	TC																		
	2011	GH	2,061	2,756	2,617	2,492	2,377	2,272	2,171	2,070	1,970	1,869	1,768	1,667	1,567	1,498	1,460	1,422	1,384	1,346
	2012	GH		2,113	2,825	2,683	2,554	2,436	2,328	2,225	2,122	2,019	1,916	1,812	1,709	1,606	1,535	1,496	1,458	1,419
	2013	GH			2,165	2,895	2,750	2,618	2,497	2,387	2,281	2,175	2,069	1,963	1,858	1,752	1,646	1,573	1,534	1,494
	2014	GH				2,219	2,968	2,819	2,683	2,560	2,446	2,338	2,229	2,121	2,013	1,904	1,796	1,687	1,613	1,572
	2015	GH					2,275	3,042	2,889	2,750	2,623	2,507	2,396	2,285	2,174	2,063	1,952	1,841	1,729	1,653
	2016	GH						2,332	3,118	2,961	2,819	2,689	2,570	2,456	2,342	2,228	2,114	2,001	1,887	1,773
	2017	GH							2,390	3,196	3,035	2,889	2,756	2,634	2,518	2,401	2,284	2,167	2,051	1,934
	2018	GH								2,450	3,276	3,111	2,962	2,825	2,700	2,581	2,461	2,341	2,221	2,102
	2019	GH									2,511	3,358	3,189	3,036	2,896	2,768	2,645	2,522	2,400	2,277
	2020	GH										2,574	3,442	3,269	3,112	2,968	2,837	2,711	2,585	2,460
	2021	GH											2,638	3,528	3,350	3,189	3,042	2,908	2,779	2,650
	2022	GH												2,704	3,616	3,434	3,269	3,119	2,981	2,848
	2023	GH													2,772	3,706	3,520	3,351	3,196	3,055
	2024	GH														2,841	3,799	3,608	3,435	3,276
	2025	GH															2,912	3,894	3,698	3,521
	2026	GH																2,985	3,991	3,791
	2027	GH																	3,060	4,091
	2028	GH																		3,136
	2029	GH																		
	2030	GH																		
	2031	GH																		
	2032	GH																		
	2033	GH																		
	2034	GH																		
	2035	GH																		
	2036	GH																		
	2037	GH																		
	2038	GH																		
	2039	GH																		
	2040	GH																		
	2011	BR	468	629	595	565	538	513	489	464	440	415	391	367	350	341	332	323	315	306
	2012	BR		480	645	610	579	551	526	501	476	451	426	401	376	359	350	341	332	323
	2013	BR			492	661	625	594	565	539	513	488	462	436	411	385	368	358	349	340
	2014	BR				504	677	641	609	579	552	526	500	474	447	421	395	377	367	358
	2015	BR					517	694	657	624	594	566	539	512	485	458	432	405	386	377
	2016	BR						530	712	674	639	608	580	553	525	498	470	442	415	396
	2017	BR							543	729	690	655	624	595	567	538	510	482	453	425
	2018	BR								557	748	708	672	639	610	581	552	523	494	465
	2019	BR									571	766	725	688	655	625	595	566	536	506
	2020	BR										585	785	743	706	672	641	610	580	549

Station	Unit	Capacity	$000 2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
	2021	BR											600	805	762	723	688	657	625	594
	2022	BR												615	825	781	741	706	673	641
	2023	BR													630	846	801	760	723	690
	2024	BR														646	867	821	779	741
	2025	BR															662	889	841	798
	2026	BR																678	911	862
	2027	BR																	695	934
	2028	BR																		713
	2029	BR																		
	2030	BR																		
	2031	BR																		
	2032	BR																		
	2033	BR																		
	2034	BR																		
	2035	BR																		
	2036	BR																		
	2037	BR																		
	2038	BR																		
	2039	BR																		
	2040	BR																		
	2011	GR	94	134	127	120	114	108	103	98	92	87	81	76	72	70	68	65	63	61
	2012	GR		96	137	130	123	117	111	106	100	95	89	83	78	74	72	69	67	65
	2013	GR			98	141	133	126	120	114	108	103	97	91	86	80	76	73	71	69
	2014	GR				101	144	136	129	123	117	111	105	99	94	88	82	78	75	73
	2015	GR					103	148	140	132	126	120	114	108	102	96	90	84	80	77
	2016	GR						106	151	143	136	129	123	117	111	104	98	92	86	82
	2017	GR							109	155	147	139	132	126	120	113	107	101	94	88
	2018	GR								111	159	150	143	135	129	123	116	110	103	97
	2019	GR									114	163	154	146	139	132	126	119	112	106
	2020	GR										117	167	158	150	142	135	129	122	115
	2021	GR											120	171	162	154	146	139	132	125
	2022	GR												123	176	166	157	150	142	135
	2023	GR													126	180	170	161	153	146
	2024	GR														129	184	174	165	157
	2025	GR															132	189	179	169
	2026	GR																136	194	183
	2027	GR																	139	199
	2028	GR																		143
	2029	GR																		
	2030	GR																		
	2031	GR																		
	2032	GR																		
	2033	GR																		
	2034	GR																		
	2035	GR																		
	2036	GR																		
	2037	GR																		
	2038	GR																		
	2039	GR																		
	2040	GR																		
	2011	TY	94	137	129	122	116	111	105	99	94	88	83	77	73	71	68	66	63	61

			$000																	
Station	Unit	Capacity	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
	2012	TY		96	140	132	125	119	113	108	102	96	90	85	79	75	72	70	67	65
	2013	TY			98	143	136	129	122	116	110	104	99	93	87	81	77	74	71	69
	2014	TY				101	147	139	132	125	119	113	107	101	95	89	83	79	76	73
	2015	TY					103	151	143	135	128	122	116	110	104	97	91	85	81	78
	2016	TY						106	154	146	138	131	125	119	112	106	100	93	87	83
	2017	TY							109	158	150	142	135	128	122	115	109	102	96	89
	2018	TY								111	162	153	145	138	131	125	118	111	105	98
	2019	TY									114	166	157	149	142	135	128	121	114	107
	2020	TY										117	171	161	153	145	138	131	124	117
	2021	TY											120	175	165	157	149	141	134	127
	2022	TY												123	179	169	161	152	145	138
	2023	TY													126	184	174	165	156	149
	2024	TY														129	188	178	169	160
	2025	TY															132	193	182	173
	2026	TY																136	198	187
	2027	TY																	139	203
	2028	TY																		143
	2029	TY																		
	2030	TY																		
	2031	TY																		
	2032	TY																		
	2033	TY																		
	2034	TY																		
	2035	TY																		
	2036	TY																		
	2037	TY																		
	2038	TY																		
	2039	TY																		
	2040	TY																		

Station	Unit	Capacity	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
BR	BR1	101	1,560	1,642	1,724	1,807	1,891	1,975	2,061	2,147	2,234	2,322	2,411	2,501	2,446	2,340	2,239	2,145	2,055	1,969
BR	BR2	167	2,579	2,714	2,850	2,988	3,126	3,266	3,407	3,550	3,694	3,839	3,986	4,135	4,045	3,868	3,703	3,546	3,397	3,255
BR	BR3	416	6,425	6,761	7,100	7,442	7,787	8,136	8,488	8,843	9,202	9,564	9,930	10,300	10,076	9,636	9,223	8,833	8,463	8,109
CR	CR4	155	1,974	2,023	2,073	2,125	2,178	2,233	2,289	2,346	2,405	2,465	2,526	2,589	2,492	2,292	2,102	1,921	1,747	1,580
CR	CR5	168	2,139	2,193	2,247	2,304	2,361	2,420	2,481	2,543	2,606	2,671	2,738	2,807	2,701	2,484	2,278	2,082	1,893	1,713
CR	CR6	240	3,056	3,132	3,210	3,291	3,373	3,457	3,544	3,632	3,723	3,816	3,912	4,009	3,858	3,549	3,255	2,974	2,705	2,447
GH	GH1	475	11,594	12,199	12,809	13,425	14,048	14,676	15,311	15,953	16,601	17,256	17,918	18,587	18,193	17,419	16,688	15,994	15,334	14,702
GH	GH2	484	11,814	12,430	13,052	13,680	14,314	14,954	15,601	16,255	16,915	17,583	18,257	18,939	18,537	17,749	17,004	16,297	15,624	14,981
GH	GH3	480	11,716	12,327	12,944	13,567	14,196	14,831	15,472	16,121	16,775	17,437	18,106	18,782	18,384	17,602	16,863	16,163	15,495	14,857
GH	GH4	479	11,692	12,302	12,917	13,538	14,166	14,800	15,440	16,087	16,741	17,401	18,069	18,743	18,346	17,565	16,828	16,129	15,463	14,826
GR	GR3	68	918	964	1,011	1,057	1,104	1,152	1,199	1,247	1,295	1,343	1,377	1,411	1,364	1,281	1,203	1,128	1,056	988
GR	GR4	95	1,282	1,347	1,412	1,477	1,543	1,609	1,675	1,742	1,809	1,876	1,923	1,971	1,906	1,790	1,680	1,575	1,476	1,380
MC	MC1	303	7,421	7,790	8,160	8,531	8,903	9,277	9,651	10,027	10,278	10,535	10,798	11,068	10,698	10,020	9,375	8,758	8,166	7,598
MC	MC2	301	7,372	7,739	8,106	8,475	8,845	9,216	9,588	9,961	10,210	10,465	10,727	10,995	10,627	9,954	9,313	8,700	8,112	7,548
MC	MC3	391	9,576	10,052	10,530	11,009	11,489	11,971	12,455	12,940	13,263	13,595	13,934	14,283	13,805	12,931	12,097	11,301	10,538	9,805
MC	MC4	477	11,683	12,263	12,846	13,430	14,016	14,604	15,194	15,786	16,180	16,585	16,999	17,424	16,841	15,775	14,758	13,787	12,856	11,962
TC	TC1	383	2,588	2,725	2,863	3,002	3,144	3,286	3,431	3,577	3,725	3,875	4,026	4,180	4,093	3,927	3,771	3,623	3,483	3,349
TC	TC2	549	3,710	3,906	4,104	4,304	4,506	4,711	4,918	5,127	5,339	5,554	5,771	5,991	5,866	5,629	5,405	5,193	4,992	4,801
TY	TY3	71	2,230	2,341	2,453	2,565	2,678	2,790	2,904	3,017	3,092	3,170	3,249	3,330	3,217	3,011	2,815	2,629	2,451	2,281

2.50%

2011	CR	169	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2012	CR	184	174	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2013	CR	200	189	178	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2014	CR	216	205	194	182	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2015	CR	232	221	210	198	187	0	0	0	0	0	0	0	0	0	0	0	0	0
2016	CR	250	238	227	215	203	192	0	0	0	0	0	0	0	0	0	0	0	0
2017	CR	268	256	244	232	220	208	196	0	0	0	0	0	0	0	0	0	0	0
2018	CR	293	275	263	250	238	226	214	201	0	0	0	0	0	0	0	0	0	0
2019	CR	324	300	282	269	257	244	232	219	206	0	0	0	0	0	0	0	0	0
2020	CR	357	332	307	289	276	263	250	237	224	212	0	0	0	0	0	0	0	0
2021	CR	391	365	340	315	296	283	270	256	243	230	217	0	0	0	0	0	0	0
2022	CR	426	400	375	349	323	303	290	276	263	249	236	222	0	0	0	0	0	0
2023	CR	463	437	410	384	358	331	311	297	283	269	256	242	228	0	0	0	0	0
2024	CR	502	475	448	421	394	366	339	319	305	290	276	262	248	234	0	0	0	0
2025	CR	542	514	487	459	431	403	376	348	327	312	298	283	268	254	239	0	0	0
2026	CR	587	556	527	499	470	442	413	385	357	335	320	305	290	275	260	245	0	0
2027	CR	636	602	570	540	511	482	453	424	395	365	343	328	313	297	282	267	252	0
2028	CR	690	652	617	584	554	524	494	464	434	404	375	352	336	320	305	289	273	258
2029	CR	438	708	668	632	599	568	537	506	476	445	415	384	361	345	329	312	296	280
2030	CR		449	725	685	648	614	582	551	519	488	456	425	394	370	353	337	320	304
2031	CR			461	743	702	664	629	596	564	532	500	468	436	403	379	362	345	328
2032	CR				472	762	720	681	645	611	578	545	512	479	446	414	388	371	354
2033	CR					484	781	738	698	661	627	593	559	525	491	458	424	398	380
2034	CR						496	800	756	715	677	642	608	573	538	504	469	434	408
2035	CR							508	820	775	733	694	658	623	587	552	516	481	445
2036	CR								521	841	794	751	712	675	638	602	566	529	493
2037	CR									534	862	814	770	730	692	654	617	580	542
2038	CR										547	884	835	789	748	709	671	633	594

Station	Unit	Capacity	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
	2039	CR											561	906	855	809	766	727	688	648
	2040	CR												575	928	877	829	786	745	705
	2011	MC	931	891	851	812	772	733	693	654	0	0	0	0	0	0	0	0	0	0
	2012	MC	994	954	913	873	832	792	751	711	670	0	0	0	0	0	0	0	0	0
	2013	MC	1,061	1,019	978	936	895	853	811	770	728	687	0	0	0	0	0	0	0	0
	2014	MC	1,130	1,087	1,045	1,002	960	917	874	832	789	747	704	0	0	0	0	0	0	0
	2015	MC	1,202	1,158	1,115	1,071	1,027	984	940	896	853	809	765	722	0	0	0	0	0	0
	2016	MC	1,277	1,232	1,187	1,142	1,098	1,053	1,008	963	919	874	829	784	740	0	0	0	0	0
	2017	MC	1,381	1,309	1,263	1,217	1,171	1,125	1,079	1,033	987	942	896	850	804	758	0	0	0	0
	2018	MC	1,517	1,415	1,341	1,294	1,247	1,200	1,153	1,106	1,059	1,012	965	918	871	824	777	0	0	0
	2019	MC	1,659	1,555	1,451	1,375	1,327	1,278	1,230	1,182	1,134	1,086	1,037	989	941	893	845	797	0	0
	2020	MC	1,807	1,700	1,594	1,487	1,409	1,360	1,310	1,261	1,212	1,162	1,113	1,063	1,014	965	915	866	816	0
	2021	MC	1,961	1,852	1,743	1,634	1,524	1,444	1,394	1,343	1,292	1,242	1,191	1,141	1,090	1,039	989	938	887	837
	2022	MC	2,122	2,010	1,898	1,786	1,674	1,562	1,480	1,429	1,377	1,325	1,273	1,221	1,169	1,117	1,065	1,013	962	910
	2023	MC	2,290	2,175	2,060	1,946	1,831	1,716	1,601	1,518	1,464	1,411	1,358	1,305	1,252	1,198	1,145	1,092	1,039	986
	2024	MC	2,465	2,347	2,230	2,112	1,994	1,877	1,759	1,642	1,555	1,501	1,446	1,392	1,337	1,283	1,228	1,174	1,119	1,065
	2025	MC	2,651	2,526	2,406	2,285	2,165	2,044	1,924	1,803	1,683	1,594	1,538	1,483	1,427	1,371	1,315	1,259	1,203	1,147
	2026	MC	2,856	2,718	2,589	2,466	2,342	2,219	2,095	1,972	1,848	1,725	1,634	1,577	1,520	1,462	1,405	1,348	1,290	1,233
	2027	MC	3,081	2,928	2,786	2,654	2,528	2,401	2,274	2,148	2,021	1,894	1,768	1,675	1,616	1,558	1,499	1,440	1,381	1,323
	2028	MC	3,330	3,158	3,001	2,855	2,721	2,591	2,461	2,331	2,201	2,072	1,942	1,812	1,717	1,657	1,597	1,536	1,476	1,416
	2029	MC	2,338	3,413	3,237	3,076	2,927	2,789	2,656	2,522	2,389	2,256	2,123	1,990	1,857	1,760	1,698	1,636	1,575	1,513
	2030	MC		2,396	3,499	3,318	3,153	3,000	2,858	2,722	2,586	2,449	2,313	2,176	2,040	1,904	1,804	1,741	1,677	1,614
	2031	MC			2,456	3,586	3,401	3,232	3,075	2,930	2,790	2,650	2,510	2,371	2,231	2,091	1,951	1,849	1,784	1,719
	2032	MC				2,518	3,676	3,486	3,312	3,152	3,003	2,860	2,716	2,573	2,430	2,287	2,143	2,000	1,895	1,829
	2033	MC					2,580	3,768	3,573	3,395	3,231	3,078	2,931	2,784	2,637	2,491	2,344	2,197	2,050	1,943
	2034	MC						2,645	3,862	3,663	3,480	3,311	3,155	3,004	2,854	2,703	2,553	2,402	2,252	2,101
	2035	MC							2,711	3,958	3,754	3,567	3,394	3,234	3,080	2,925	2,771	2,617	2,462	2,308
	2036	MC								2,779	4,057	3,848	3,656	3,479	3,315	3,157	2,998	2,840	2,682	2,524
	2037	MC									2,848	4,159	3,944	3,748	3,566	3,398	3,236	3,073	2,911	2,749
	2038	MC										2,920	4,263	4,043	3,841	3,655	3,483	3,316	3,150	2,984
	2039	MC											2,993	4,369	4,144	3,937	3,746	3,570	3,399	3,229
	2040	MC												3,067	4,478	4,248	4,036	3,840	3,659	3,484
	2011	TC	179	175	170	165	161	156	152	147	142	138	133	128	124	119	114	110	105	101
	2012	TC	189	184	179	174	170	165	160	155	151	146	141	136	132	127	122	117	113	108
	2013	TC	198	193	188	184	179	174	169	164	159	154	149	145	140	135	130	125	120	115
	2014	TC	208	203	198	193	188	183	178	173	168	163	158	153	148	143	138	133	128	123
	2015	TC	218	213	208	203	198	193	188	183	178	172	167	162	157	152	147	142	137	131
	2016	TC	229	224	219	213	208	203	198	192	187	182	177	171	166	161	156	150	145	140
	2017	TC	245	235	230	224	219	213	208	203	197	192	187	181	176	170	165	160	154	149
	2018	TC	267	251	241	235	230	224	219	213	208	202	197	191	186	180	175	169	164	158
	2019	TC	290	274	258	247	241	235	230	224	219	213	207	202	196	190	185	179	173	168
	2020	TC	314	297	281	264	253	247	241	236	230	224	218	212	207	201	195	189	183	178
	2021	TC	338	321	305	288	271	259	253	247	241	236	230	224	218	212	206	200	194	188
	2022	TC	364	347	329	312	295	277	266	260	254	248	241	235	229	223	217	211	205	199
	2023	TC	391	373	355	338	320	302	284	272	266	260	254	247	241	235	229	223	216	210
	2024	TC	419	401	383	364	346	328	310	292	279	273	266	260	254	247	241	234	228	222
	2025	TC	449	429	411	392	373	355	336	317	299	286	280	273	267	260	253	247	240	234
	2026	TC	482	460	440	421	402	383	364	345	325	306	293	287	280	273	266	260	253	246
	2027	TC	519	494	472	451	432	412	392	373	353	334	314	301	294	287	280	273	266	259
	2028	TC	560	532	507	484	463	442	422	402	382	362	342	322	308	301	294	287	280	273
	2029	TC	438	574	545	519	496	474	453	433	412	392	371	350	330	316	309	301	294	287

Station	Unit	Capacity	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
	2030	TC		449	588	559	532	508	486	465	444	423	401	380	359	338	324	316	309	302
	2031	TC			461	603	573	546	521	498	476	455	433	411	390	368	347	332	324	317
	2032	TC				472	618	587	559	534	511	488	466	444	422	400	377	355	340	332
	2033	TC					484	633	602	573	547	523	501	478	455	432	410	387	364	349
	2034	TC						496	649	617	588	561	536	513	490	466	443	420	396	373
	2035	TC							508	665	632	602	575	550	526	502	478	454	430	406
	2036	TC								521	682	648	617	589	564	539	515	490	466	441
	2037	TC									534	699	664	633	604	578	553	527	502	477
	2038	TC										547	717	681	648	619	592	566	541	515
	2039	TC											561	735	698	665	634	607	580	554
	2040	TC												575	753	715	681	650	622	595
	2011	GH	1,309	1,271	1,233	1,195	1,158	1,120	1,082	1,044	1,007	969	931	893	856	818	780	742	704	667
	2012	GH	1,380	1,341	1,303	1,264	1,225	1,187	1,148	1,109	1,070	1,032	993	954	916	877	838	800	761	722
	2013	GH	1,454	1,415	1,375	1,335	1,296	1,256	1,216	1,177	1,137	1,097	1,058	1,018	978	939	899	859	819	780
	2014	GH	1,531	1,491	1,450	1,409	1,369	1,328	1,287	1,247	1,206	1,165	1,125	1,084	1,043	1,003	962	921	881	840
	2015	GH	1,611	1,570	1,528	1,486	1,445	1,403	1,361	1,320	1,278	1,236	1,194	1,153	1,111	1,069	1,028	986	944	903
	2016	GH	1,694	1,652	1,609	1,566	1,523	1,481	1,438	1,395	1,353	1,310	1,267	1,224	1,182	1,139	1,096	1,053	1,011	968
	2017	GH	1,817	1,737	1,693	1,649	1,605	1,562	1,518	1,474	1,430	1,386	1,343	1,299	1,255	1,211	1,167	1,124	1,080	1,036
	2018	GH	1,982	1,862	1,780	1,735	1,690	1,645	1,601	1,556	1,511	1,466	1,421	1,376	1,331	1,286	1,241	1,197	1,152	1,107
	2019	GH	2,154	2,032	1,909	1,825	1,779	1,733	1,687	1,641	1,595	1,549	1,503	1,457	1,410	1,364	1,318	1,272	1,226	1,180
	2020	GH	2,334	2,208	2,082	1,957	1,870	1,823	1,776	1,729	1,682	1,634	1,587	1,540	1,493	1,446	1,399	1,351	1,304	1,257
	2021	GH	2,521	2,392	2,263	2,134	2,006	1,917	1,869	1,820	1,772	1,724	1,675	1,627	1,579	1,530	1,482	1,434	1,385	1,337
	2022	GH	2,716	2,584	2,452	2,320	2,188	2,056	1,965	1,915	1,866	1,816	1,767	1,717	1,668	1,618	1,569	1,519	1,469	1,420
	2023	GH	2,920	2,784	2,649	2,513	2,378	2,243	2,107	2,014	1,963	1,912	1,862	1,811	1,760	1,709	1,659	1,608	1,557	1,506
	2024	GH	3,131	2,993	2,854	2,715	2,576	2,437	2,299	2,160	2,064	2,012	1,960	1,908	1,856	1,804	1,752	1,700	1,648	1,596
	2025	GH	3,358	3,210	3,067	2,925	2,783	2,641	2,498	2,356	2,214	2,116	2,063	2,009	1,956	1,903	1,849	1,796	1,742	1,689
	2026	GH	3,609	3,442	3,290	3,144	2,998	2,852	2,707	2,561	2,415	2,269	2,169	2,114	2,060	2,005	1,950	1,895	1,841	1,786
	2027	GH	3,886	3,699	3,528	3,372	3,223	3,073	2,924	2,774	2,625	2,475	2,326	2,223	2,167	2,111	2,055	1,999	1,943	1,887
	2028	GH	4,193	3,983	3,791	3,617	3,456	3,303	3,150	2,997	2,844	2,690	2,537	2,384	2,279	2,221	2,164	2,106	2,049	1,991
	2029	GH	3,214	4,298	4,082	3,886	3,707	3,543	3,386	3,229	3,072	2,915	2,758	2,601	2,444	2,336	2,277	2,218	2,159	2,100
	2030	GH		3,295	4,406	4,184	3,983	3,800	3,631	3,470	3,310	3,149	2,988	2,827	2,666	2,505	2,394	2,334	2,273	2,213
	2031	GH			3,377	4,516	4,289	4,083	3,895	3,722	3,557	3,392	3,227	3,062	2,897	2,732	2,567	2,454	2,392	2,330
	2032	GH				3,462	4,629	4,396	4,185	3,992	3,815	3,646	3,477	3,308	3,139	2,970	2,801	2,632	2,515	2,452
	2033	GH					3,548	4,744	4,506	4,289	4,092	3,911	3,737	3,564	3,391	3,217	3,044	2,871	2,697	2,578
	2034	GH						3,637	4,863	4,619	4,397	4,194	4,008	3,831	3,653	3,475	3,298	3,120	2,942	2,765
	2035	GH							3,728	4,984	4,734	4,507	4,299	4,109	3,927	3,744	3,562	3,380	3,198	3,016
	2036	GH								3,821	5,109	4,852	4,619	4,406	4,211	4,025	3,838	3,651	3,465	3,278
	2037	GH									3,917	5,237	4,974	4,735	4,517	4,317	4,125	3,934	3,743	3,551
	2038	GH										4,014	5,368	5,098	4,853	4,629	4,425	4,228	4,032	3,836
	2039	GH											4,115	5,502	5,226	4,974	4,745	4,535	4,334	4,133
	2040	GH												4,218	5,639	5,356	5,099	4,864	4,649	4,443
	2011	BR	297	288	279	271	262	253	244	235	226	218	209	200	191	182	173	165	156	147
	2012	BR	313	304	295	286	277	268	259	250	241	232	223	214	205	196	187	178	169	160
	2013	BR	331	321	312	303	293	284	275	266	256	247	238	229	219	210	201	191	182	173
	2014	BR	348	339	329	320	310	301	291	282	272	263	253	244	234	225	215	206	196	187
	2015	BR	367	357	347	338	328	318	308	299	289	279	269	260	250	240	230	221	211	201
	2016	BR	386	376	366	356	346	336	326	316	306	296	286	276	266	256	246	236	226	216
	2017	BR	406	396	385	375	365	355	344	334	324	314	303	293	283	273	263	252	242	232
	2018	BR	436	416	406	395	385	374	364	353	343	332	322	311	301	290	280	269	259	248
	2019	BR	476	447	426	416	405	394	383	373	362	351	340	330	319	308	297	287	276	265
	2020	BR	519	488	458	437	426	415	404	393	382	371	360	349	338	327	316	305	294	283

Station	Unit	Capacity	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
	2021	BR	563	532	500	469	448	437	425	414	403	391	380	369	358	346	335	324	312	301
	2022	BR	609	577	545	513	481	459	448	436	424	413	401	390	378	367	355	343	332	320
	2023	BR	657	624	591	559	526	493	471	459	447	435	423	411	399	388	376	364	352	340
	2024	BR	707	673	640	606	573	539	505	482	470	458	446	434	422	409	397	385	373	361
	2025	BR	760	725	690	656	621	587	552	518	495	482	470	457	445	432	420	407	395	382
	2026	BR	818	779	743	708	672	637	602	566	531	507	494	481	469	456	443	430	417	405
	2027	BR	884	839	798	761	725	689	653	617	580	544	520	506	493	480	467	454	441	428
	2028	BR	957	906	860	818	781	743	706	669	632	595	558	533	519	506	492	479	465	452
	2029	BR	731	981	928	881	839	800	762	724	686	648	610	572	546	532	518	505	491	477
	2030	BR		749	1,005	952	903	860	820	781	742	703	664	625	586	559	545	531	517	503
	2031	BR			768	1,031	975	926	881	841	801	761	721	681	641	601	573	559	545	530
	2032	BR				787	1,056	1,000	949	903	862	821	780	739	698	657	616	588	573	558
	2033	BR					806	1,083	1,025	973	926	883	841	799	757	715	673	631	603	587
	2034	BR						827	1,110	1,050	997	949	905	862	819	776	733	690	647	618
	2035	BR							847	1,138	1,077	1,022	973	928	884	840	795	751	707	663
	2036	BR								868	1,166	1,104	1,048	997	951	906	861	815	770	725
	2037	BR									890	1,195	1,131	1,074	1,022	975	928	882	836	789
	2038	BR										912	1,225	1,160	1,101	1,047	999	952	904	857
	2039	BR											935	1,256	1,189	1,128	1,074	1,024	975	927
	2040	BR												959	1,287	1,218	1,156	1,100	1,050	1,000
	2011	GR	58	56	54	52	49	47	45	42	40	38	0	0	0	0	0	0	0	0
	2012	GR	62	60	58	55	53	51	48	46	44	41	39	0	0	0	0	0	0	0
	2013	GR	66	64	61	59	57	54	52	49	47	45	42	40	0	0	0	0	0	0
	2014	GR	70	68	65	63	61	58	56	53	51	48	46	43	41	0	0	0	0	0
	2015	GR	75	72	70	67	65	62	60	57	54	52	49	47	44	42	0	0	0	0
	2016	GR	79	77	74	71	69	66	64	61	58	56	53	51	48	45	43	0	0	0
	2017	GR	84	81	78	76	73	70	68	65	63	60	57	55	52	49	47	44	0	0
	2018	GR	90	86	83	80	78	75	72	70	67	64	61	59	56	53	50	48	45	0
	2019	GR	99	93	88	85	82	80	77	74	71	68	66	63	60	57	55	52	49	46
	2020	GR	108	102	95	90	87	84	82	79	76	73	70	67	64	62	59	56	53	50
	2021	GR	118	111	104	97	92	90	87	84	81	78	75	72	69	66	63	60	57	54
	2022	GR	128	121	114	107	100	95	92	89	86	83	80	77	74	71	68	65	62	59
	2023	GR	139	131	124	117	110	102	97	94	91	88	85	82	79	76	72	69	66	63
	2024	GR	150	142	135	127	120	112	105	100	96	93	90	87	84	81	77	74	71	68
	2025	GR	161	153	146	138	130	123	115	107	102	99	96	92	89	86	83	79	76	73
	2026	GR	174	165	157	149	141	134	126	118	110	105	101	98	95	91	88	85	81	78
	2027	GR	188	178	169	161	153	145	137	129	121	113	107	104	100	97	94	90	87	83
	2028	GR	204	193	183	173	165	157	149	140	132	124	116	110	106	103	99	96	92	89
	2029	GR	146	209	197	187	178	169	161	152	144	135	127	119	113	109	105	102	98	95
	2030	GR		150	214	202	192	182	173	165	156	148	139	130	122	115	112	108	104	101
	2031	GR			154	219	207	197	187	178	169	160	151	142	133	125	118	115	111	107
	2032	GR				157	225	212	201	191	182	173	164	155	146	137	128	121	117	114
	2033	GR					161	230	218	206	196	187	177	168	159	150	140	131	124	120
	2034	GR						165	236	223	212	201	191	182	172	163	153	144	134	127
	2035	GR							169	242	229	217	206	196	186	177	167	157	147	138
	2036	GR								174	248	235	222	211	201	191	181	171	161	151
	2037	GR									178	254	240	228	217	206	196	186	175	165
	2038	GR										182	261	246	234	222	211	201	190	180
	2039	GR											187	267	253	239	228	217	206	195
	2040	GR												192	274	259	245	233	222	211
	2011	TY	58	56	53	51	48	46	43	41	0	0	0	0	0	0	0	0	0	0

Station	Unit	Capacity	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
	2012	TY	62	60	57	55	52	49	47	44	42	0	0	0	0	0	0	0	0	0
	2013	TY	66	64	61	59	56	53	51	48	46	43	0	0	0	0	0	0	0	0
	2014	TY	71	68	65	63	60	57	55	52	49	47	44	0	0	0	0	0	0	0
	2015	TY	75	72	70	67	64	61	59	56	53	51	48	45	0	0	0	0	0	0
	2016	TY	80	77	74	71	69	66	63	60	57	55	52	49	46	0	0	0	0	0
	2017	TY	85	82	79	76	73	70	67	65	62	59	56	53	50	47	0	0	0	0
	2018	TY	92	87	84	81	78	75	72	69	66	63	60	57	54	52	49	0	0	0
	2019	TY	101	94	89	86	83	80	77	74	71	68	65	62	59	56	53	50	0	0
	2020	TY	110	103	96	91	88	85	82	79	76	73	70	66	63	60	57	54	51	0
	2021	TY	120	113	106	99	93	90	87	84	81	78	74	71	68	65	62	59	55	52
	2022	TY	130	123	116	108	101	96	93	89	86	83	80	76	73	70	67	63	60	57
	2023	TY	141	134	126	119	111	104	98	95	92	88	85	82	78	75	72	68	65	62
	2024	TY	152	145	137	129	122	114	106	101	97	94	90	87	84	80	77	73	70	67
	2025	TY	164	156	148	140	133	125	117	109	103	100	96	93	89	86	82	79	75	72
	2026	TY	177	168	160	152	144	136	128	120	112	106	102	99	95	91	88	84	81	77
	2027	TY	192	182	172	164	156	148	139	131	123	114	108	105	101	97	94	90	86	83
	2028	TY	208	196	186	177	168	160	151	143	134	126	117	111	107	104	100	96	92	89
	2029	TY	146	213	201	191	181	172	164	155	146	138	129	120	114	110	106	102	98	95
	2030	TY		150	218	206	196	186	177	168	159	150	141	132	123	117	113	109	105	101
	2031	TY			154	224	212	201	190	181	172	163	154	145	135	126	120	116	112	107
	2032	TY				157	229	217	206	195	186	176	167	158	148	139	129	123	118	114
	2033	TY					161	235	222	211	200	190	181	171	161	152	142	133	126	121
	2034	TY						165	241	228	216	205	195	185	175	165	156	146	136	129
	2035	TY							169	247	234	221	210	200	190	180	170	160	149	139
	2036	TY								174	253	239	227	215	205	195	184	174	164	153
	2037	TY									178	259	245	233	221	210	199	189	178	168
	2038	TY										182	266	252	238	226	215	204	194	183
	2039	TY											187	273	258	244	232	221	210	198
	2040	TY												192	279	264	250	238	226	215

Station	Unit	Capacity	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059
BR	BR1	101	1,867	1,770	1,678	1,591	1,510	1,434	1,361	1,290	1,219	1,149	1,080	1,013	946
BR	BR2	167	3,087	2,926	2,774	2,631	2,496	2,371	2,251	2,132	2,015	1,900	1,787	1,675	1,564
BR	BR3	416	7,689	7,289	6,910	6,553	6,218	5,906	5,607	5,312	5,021	4,733	4,450	4,171	3,897
CR	CR4	155	1,421	1,269	1,125	988	859	738	623	511	402	297	194	95	0
CR	CR5	168	1,540	1,375	1,219	1,071	931	800	675	554	436	322	211	103	0
CR	CR6	240	2,200	1,965	1,741	1,529	1,330	1,143	965	792	623	459	301	148	0
GH	GH1	475	14,098	13,375	12,686	12,033	11,415	10,834	10,291	9,770	9,256	8,749	8,249	7,755	7,269
GH	GH2	484	14,365	13,628	12,927	12,261	11,631	11,039	10,486	9,956	9,432	8,915	8,405	7,902	7,407
GH	GH3	480	14,246	13,516	12,820	12,159	11,535	10,948	10,399	9,873	9,354	8,841	8,336	7,837	7,346
GH	GH4	479	14,217	13,488	12,793	12,134	11,511	10,925	10,378	9,853	9,334	8,823	8,318	7,821	7,331
GR	GR3	68	922	860	801	745	692	643	595	549	504	459	415	373	331
GR	GR4	95	1,288	1,201	1,118	1,040	967	898	832	767	704	641	580	521	462
MC	MC1	303	7,053	6,531	6,033	5,559	5,110	4,687	4,290	3,910	3,538	3,173	2,817	2,468	2,128
MC	MC2	301	7,007	6,488	5,993	5,523	5,077	4,656	4,262	3,884	3,515	3,152	2,798	2,452	2,114
MC	MC3	391	9,102	8,428	7,785	7,174	6,595	6,048	5,536	5,046	4,565	4,095	3,635	3,185	2,746
MC	MC4	477	11,104	10,282	9,498	8,752	8,045	7,379	6,754	6,156	5,570	4,996	4,434	3,886	3,350
TC	TC1	383	3,222	3,101	2,986	2,878	2,777	2,652	2,536	2,425	2,315	2,206	2,099	1,993	1,888
TC	TC2	549	4,618	4,445	4,280	4,125	3,980	3,802	3,636	3,476	3,319	3,163	3,009	2,857	2,706
TY	TY3	71	2,117	1,962	1,814	1,675	1,543	1,420	1,303	1,187	1,074	964	855	749	646

2.50%

2011	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2012	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2013	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2014	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2015	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2016	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2017	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2018	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2019	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2020	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2021	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2022	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2023	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2024	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2025	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2026	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2027	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2028	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2029	CR	264	0	0	0	0	0	0	0	0	0	0	0	0
2030	CR	287	271	0	0	0	0	0	0	0	0	0	0	0
2031	CR	311	294	278	0	0	0	0	0	0	0	0	0	0
2032	CR	336	319	302	285	0	0	0	0	0	0	0	0	0
2033	CR	363	345	327	309	292	0	0	0	0	0	0	0	0
2034	CR	390	372	353	335	317	299	0	0	0	0	0	0	0
2035	CR	418	400	381	362	344	325	306	0	0	0	0	0	0
2036	CR	456	429	410	390	371	352	333	314	0	0	0	0	0
2037	CR	505	468	439	420	400	381	361	342	322	0	0	0	0
2038	CR	556	518	480	450	430	410	390	370	350	330	0	0	0

Station	Unit	Capacity	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059
	2039	CR	609	570	531	492	462	441	421	400	379	359	338	0	0
	2040	CR	665	624	584	544	504	473	452	431	410	389	368	347	0
	2011	MC	0	0	0	0	0	0	0	0	0	0	0	0	0
	2012	MC	0	0	0	0	0	0	0	0	0	0	0	0	0
	2013	MC	0	0	0	0	0	0	0	0	0	0	0	0	0
	2014	MC	0	0	0	0	0	0	0	0	0	0	0	0	0
	2015	MC	0	0	0	0	0	0	0	0	0	0	0	0	0
	2016	MC	0	0	0	0	0	0	0	0	0	0	0	0	0
	2017	MC	0	0	0	0	0	0	0	0	0	0	0	0	0
	2018	MC	0	0	0	0	0	0	0	0	0	0	0	0	0
	2019	MC	0	0	0	0	0	0	0	0	0	0	0	0	0
	2020	MC	0	0	0	0	0	0	0	0	0	0	0	0	0
	2021	MC	0	0	0	0	0	0	0	0	0	0	0	0	0
	2022	MC	858	0	0	0	0	0	0	0	0	0	0	0	0
	2023	MC	932	879	0	0	0	0	0	0	0	0	0	0	0
	2024	MC	1,010	956	901	0	0	0	0	0	0	0	0	0	0
	2025	MC	1,091	1,035	980	924	0	0	0	0	0	0	0	0	0
	2026	MC	1,176	1,119	1,061	1,004	947	0	0	0	0	0	0	0	0
	2027	MC	1,264	1,205	1,147	1,088	1,029	970	0	0	0	0	0	0	0
	2028	MC	1,356	1,296	1,235	1,175	1,115	1,055	995	0	0	0	0	0	0
	2029	MC	1,451	1,390	1,328	1,266	1,205	1,143	1,081	1,020	0	0	0	0	0
	2030	MC	1,551	1,488	1,424	1,361	1,298	1,235	1,172	1,108	1,045	0	0	0	0
	2031	MC	1,655	1,590	1,525	1,460	1,395	1,330	1,266	1,201	1,136	1,071	0	0	0
	2032	MC	1,762	1,696	1,629	1,563	1,497	1,430	1,364	1,297	1,231	1,164	1,098	0	0
	2033	MC	1,874	1,806	1,738	1,670	1,602	1,534	1,466	1,398	1,330	1,262	1,194	1,125	0
	2034	MC	1,991	1,921	1,852	1,782	1,712	1,642	1,572	1,503	1,433	1,363	1,293	1,223	1,154
	2035	MC	2,154	2,041	1,969	1,898	1,826	1,755	1,683	1,612	1,540	1,469	1,397	1,325	1,254
	2036	MC	2,366	2,208	2,092	2,019	1,945	1,872	1,799	1,725	1,652	1,579	1,505	1,432	1,359
	2037	MC	2,587	2,425	2,263	2,144	2,069	1,994	1,919	1,844	1,768	1,693	1,618	1,543	1,468
	2038	MC	2,818	2,652	2,486	2,319	2,198	2,121	2,044	1,967	1,890	1,813	1,736	1,659	1,581
	2039	MC	3,059	2,888	2,718	2,548	2,377	2,253	2,174	2,095	2,016	1,937	1,858	1,779	1,700
	2040	MC	3,310	3,135	2,961	2,786	2,611	2,437	2,309	2,228	2,147	2,066	1,985	1,904	1,823
	2011	TC	96	91	87	82	77	0	0	0	0	0	0	0	0
	2012	TC	103	98	94	89	84	79	0	0	0	0	0	0	0
	2013	TC	111	106	101	96	91	86	81	0	0	0	0	0	0
	2014	TC	118	113	108	103	98	93	88	83	0	0	0	0	0
	2015	TC	126	121	116	111	106	101	96	91	85	0	0	0	0
	2016	TC	135	130	124	119	114	109	103	98	93	88	0	0	0
	2017	TC	144	138	133	127	122	117	111	106	101	95	90	0	0
	2018	TC	153	147	142	136	131	125	120	114	109	103	98	92	0
	2019	TC	162	156	151	145	139	134	128	123	117	111	106	100	94
	2020	TC	172	166	160	155	149	143	137	131	126	120	114	108	102
	2021	TC	182	176	170	164	158	152	147	141	135	129	123	117	111
	2022	TC	193	187	181	175	168	162	156	150	144	138	132	126	120
	2023	TC	204	198	191	185	179	173	166	160	154	148	141	135	129
	2024	TC	215	209	203	196	190	183	177	171	164	158	151	145	139
	2025	TC	227	221	214	208	201	194	188	181	175	168	162	155	149
	2026	TC	240	233	226	219	213	206	199	193	186	179	173	166	159
	2027	TC	253	246	239	232	225	218	211	204	197	191	184	177	170
	2028	TC	266	259	252	245	238	231	224	217	209	202	195	188	181
	2029	TC	280	273	265	258	251	244	236	229	222	215	207	200	193

Station	Unit	Capacity	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059
	2030	TC	294	287	279	272	265	257	250	242	235	227	220	213	205
	2031	TC	309	302	294	286	279	271	264	256	248	241	233	226	218
	2032	TC	325	317	309	301	293	286	278	270	262	255	247	239	231
	2033	TC	341	333	325	317	309	301	293	285	277	269	261	253	245
	2034	TC	357	349	341	333	325	317	308	300	292	284	276	267	259
	2035	TC	382	366	358	350	341	333	324	316	308	299	291	283	274
	2036	TC	417	392	376	367	358	350	341	333	324	315	307	298	290
	2037	TC	452	427	402	385	376	367	358	350	341	332	323	314	306
	2038	TC	489	463	438	412	395	385	376	367	358	349	340	331	322
	2039	TC	528	501	475	449	422	404	395	386	377	367	358	349	340
	2040	TC	568	541	514	487	460	433	414	405	396	386	377	367	358
	2011	GH	629	0	0	0	0	0	0	0	0	0	0	0	0
	2012	GH	683	645	0	0	0	0	0	0	0	0	0	0	0
	2013	GH	740	700	661	0	0	0	0	0	0	0	0	0	0
	2014	GH	799	759	718	677	0	0	0	0	0	0	0	0	0
	2015	GH	861	819	778	736	694	0	0	0	0	0	0	0	0
	2016	GH	925	882	840	797	754	712	0	0	0	0	0	0	0
	2017	GH	992	948	905	861	817	773	729	0	0	0	0	0	0
	2018	GH	1,062	1,017	972	927	882	837	792	748	0	0	0	0	0
	2019	GH	1,134	1,088	1,042	996	950	904	858	812	766	0	0	0	0
	2020	GH	1,210	1,163	1,116	1,068	1,021	974	927	880	833	785	0	0	0
	2021	GH	1,289	1,240	1,192	1,143	1,095	1,047	998	950	902	853	805	0	0
	2022	GH	1,370	1,321	1,271	1,222	1,172	1,123	1,073	1,023	974	924	875	825	0
	2023	GH	1,455	1,405	1,354	1,303	1,252	1,201	1,151	1,100	1,049	998	947	897	846
	2024	GH	1,544	1,492	1,440	1,388	1,336	1,283	1,231	1,179	1,127	1,075	1,023	971	919
	2025	GH	1,636	1,582	1,529	1,476	1,422	1,369	1,316	1,262	1,209	1,155	1,102	1,049	995
	2026	GH	1,731	1,677	1,622	1,567	1,513	1,458	1,403	1,348	1,294	1,239	1,184	1,130	1,075
	2027	GH	1,831	1,775	1,719	1,662	1,606	1,550	1,494	1,438	1,382	1,326	1,270	1,214	1,158
	2028	GH	1,934	1,876	1,819	1,762	1,704	1,647	1,589	1,532	1,474	1,417	1,359	1,302	1,244
	2029	GH	2,041	1,982	1,923	1,864	1,806	1,747	1,688	1,629	1,570	1,511	1,452	1,393	1,334
	2030	GH	2,153	2,092	2,032	1,971	1,911	1,851	1,790	1,730	1,670	1,609	1,549	1,488	1,428
	2031	GH	2,268	2,206	2,144	2,083	2,021	1,959	1,897	1,835	1,773	1,711	1,649	1,588	1,526
	2032	GH	2,388	2,325	2,262	2,198	2,135	2,071	2,008	1,944	1,881	1,818	1,754	1,691	1,627
	2033	GH	2,513	2,448	2,383	2,318	2,253	2,188	2,123	2,058	1,993	1,928	1,863	1,798	1,733
	2034	GH	2,643	2,576	2,509	2,443	2,376	2,309	2,243	2,176	2,109	2,043	1,976	1,910	1,843
	2035	GH	2,834	2,709	2,640	2,572	2,504	2,435	2,367	2,299	2,231	2,162	2,094	2,026	1,957
	2036	GH	3,091	2,905	2,776	2,706	2,636	2,566	2,496	2,426	2,356	2,286	2,216	2,146	2,076
	2037	GH	3,360	3,169	2,977	2,846	2,774	2,702	2,630	2,559	2,487	2,415	2,343	2,272	2,200
	2038	GH	3,640	3,444	3,248	3,052	2,917	2,843	2,770	2,696	2,623	2,549	2,476	2,402	2,328
	2039	GH	3,932	3,731	3,530	3,329	3,128	2,990	2,914	2,839	2,764	2,688	2,613	2,537	2,462
	2040	GH	4,236	4,030	3,824	3,618	3,412	3,206	3,065	2,987	2,910	2,833	2,755	2,678	2,601
	2011	BR	0	0	0	0	0	0	0	0	0	0	0	0	0
	2012	BR	151	0	0	0	0	0	0	0	0	0	0	0	0
	2013	BR	164	154	0	0	0	0	0	0	0	0	0	0	0
	2014	BR	177	168	158	0	0	0	0	0	0	0	0	0	0
	2015	BR	191	182	172	162	0	0	0	0	0	0	0	0	0
	2016	BR	206	196	186	176	166	0	0	0	0	0	0	0	0
	2017	BR	222	211	201	191	181	170	0	0	0	0	0	0	0
	2018	BR	238	227	217	206	196	185	175	0	0	0	0	0	0
	2019	BR	254	244	233	222	211	201	190	179	0	0	0	0	0
	2020	BR	272	261	250	239	228	217	206	195	183	0	0	0	0

Station	Unit	Capacity	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059
	2021	BR	290	278	267	256	245	233	222	211	199	188	0	0	0
	2022	BR	309	297	285	274	262	251	239	228	216	204	193	0	0
	2023	BR	328	316	304	293	281	269	257	245	233	221	209	198	0
	2024	BR	349	336	324	312	300	288	276	263	251	239	227	215	203
	2025	BR	370	357	345	332	320	307	295	282	270	257	245	233	220
	2026	BR	392	379	366	353	341	328	315	302	290	277	264	251	238
	2027	BR	415	402	388	375	362	349	336	323	310	297	284	271	257
	2028	BR	438	425	412	398	385	371	358	344	331	318	304	291	277
	2029	BR	463	449	436	422	408	394	381	367	353	339	326	312	298
	2030	BR	489	475	461	447	432	418	404	390	376	362	348	334	320
	2031	BR	516	501	487	472	458	443	429	414	400	385	371	356	342
	2032	BR	543	529	514	499	484	469	454	440	425	410	395	380	365
	2033	BR	572	557	542	527	511	496	481	466	451	435	420	405	390
	2034	BR	602	586	571	555	540	524	509	493	477	462	446	431	415
	2035	BR	633	617	601	585	569	553	537	521	505	489	473	457	441
	2036	BR	680	649	632	616	600	583	567	551	534	518	502	485	469
	2037	BR	743	697	665	648	632	615	598	581	564	548	531	514	497
	2038	BR	809	762	714	682	664	647	630	613	596	579	561	544	527
	2039	BR	878	829	781	732	699	681	663	646	628	611	593	575	558
	2040	BR	950	900	850	800	750	716	698	680	662	644	626	608	590
	2011	GR	0	0	0	0	0	0	0	0	0	0	0	0	0
	2012	GR	0	0	0	0	0	0	0	0	0	0	0	0	0
	2013	GR	0	0	0	0	0	0	0	0	0	0	0	0	0
	2014	GR	0	0	0	0	0	0	0	0	0	0	0	0	0
	2015	GR	0	0	0	0	0	0	0	0	0	0	0	0	0
	2016	GR	0	0	0	0	0	0	0	0	0	0	0	0	0
	2017	GR	0	0	0	0	0	0	0	0	0	0	0	0	0
	2018	GR	0	0	0	0	0	0	0	0	0	0	0	0	0
	2019	GR	0	0	0	0	0	0	0	0	0	0	0	0	0
	2020	GR	47	0	0	0	0	0	0	0	0	0	0	0	0
	2021	GR	51	48	0	0	0	0	0	0	0	0	0	0	0
	2022	GR	56	53	50	0	0	0	0	0	0	0	0	0	0
	2023	GR	60	57	54	51	0	0	0	0	0	0	0	0	0
	2024	GR	65	62	59	55	52	0	0	0	0	0	0	0	0
	2025	GR	70	66	63	60	57	54	0	0	0	0	0	0	0
	2026	GR	75	71	68	65	61	58	55	0	0	0	0	0	0
	2027	GR	80	77	73	70	66	63	60	56	0	0	0	0	0
	2028	GR	86	82	79	75	72	68	65	61	58	0	0	0	0
	2029	GR	91	88	84	81	77	73	70	66	63	59	0	0	0
	2030	GR	97	93	90	86	83	79	75	72	68	64	61	0	0
	2031	GR	103	100	96	92	88	85	81	77	73	70	66	62	0
	2032	GR	110	106	102	98	94	91	87	83	79	75	71	67	64
	2033	GR	116	113	109	105	101	97	93	89	85	81	77	73	69
	2034	GR	123	119	115	111	107	103	99	95	91	87	83	79	75
	2035	GR	131	126	122	118	114	110	106	102	98	93	89	85	81
	2036	GR	141	134	130	125	121	117	113	108	104	100	96	91	87
	2037	GR	155	145	137	133	129	124	120	115	111	107	102	98	94
	2038	GR	169	159	148	141	136	132	127	123	118	114	109	105	101
	2039	GR	184	173	163	152	144	140	135	130	126	121	117	112	108
	2040	GR	200	189	178	167	156	148	143	138	134	129	124	120	115
	2011	TY	0	0	0	0	0	0	0	0	0	0	0	0	0

Station	Unit	Capacity	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059
	2012	TY	0	0	0	0	0	0	0	0	0	0	0	0	0
	2013	TY	0	0	0	0	0	0	0	0	0	0	0	0	0
	2014	TY	0	0	0	0	0	0	0	0	0	0	0	0	0
	2015	TY	0	0	0	0	0	0	0	0	0	0	0	0	0
	2016	TY	0	0	0	0	0	0	0	0	0	0	0	0	0
	2017	TY	0	0	0	0	0	0	0	0	0	0	0	0	0
	2018	TY	0	0	0	0	0	0	0	0	0	0	0	0	0
	2019	TY	0	0	0	0	0	0	0	0	0	0	0	0	0
	2020	TY	0	0	0	0	0	0	0	0	0	0	0	0	0
	2021	TY	0	0	0	0	0	0	0	0	0	0	0	0	0
	2022	TY	54	0	0	0	0	0	0	0	0	0	0	0	0
	2023	TY	58	55	0	0	0	0	0	0	0	0	0	0	0
	2024	TY	63	60	56	0	0	0	0	0	0	0	0	0	0
	2025	TY	68	65	61	58	0	0	0	0	0	0	0	0	0
	2026	TY	73	70	66	63	59	0	0	0	0	0	0	0	0
	2027	TY	79	75	72	68	64	61	0	0	0	0	0	0	0
	2028	TY	85	81	77	73	70	66	62	0	0	0	0	0	0
	2029	TY	91	87	83	79	75	71	68	64	0	0	0	0	0
	2030	TY	97	93	89	85	81	77	73	69	65	0	0	0	0
	2031	TY	103	99	95	91	87	83	79	75	71	67	0	0	0
	2032	TY	110	106	102	98	94	89	85	81	77	73	69	0	0
	2033	TY	117	113	109	104	100	96	92	87	83	79	75	70	0
	2034	TY	124	120	116	111	107	103	98	94	90	85	81	76	72
	2035	TY	132	128	123	119	114	110	105	101	96	92	87	83	78
	2036	TY	143	135	131	126	122	117	112	108	103	99	94	89	85
	2037	TY	157	146	139	134	129	125	120	115	111	106	101	96	92
	2038	TY	172	161	150	142	137	133	128	123	118	113	108	104	99
	2039	TY	187	176	165	154	146	141	136	131	126	121	116	111	106
	2040	TY	203	192	180	169	158	149	144	139	134	129	124	119	114

			$000										
Station	Unit	Capacity	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
BR	BR1	101	0	0	0	0	0	441	454	590	616	785	787
BR	BR2	167	0	0	0	0	0	729	751	975	1,018	1,299	1,301
BR	BR3	416	0	0	0	0	0	1,816	1,870	2,430	2,536	3,235	3,242
CR	CR4	155	258	840	1,124	1,095	1,216	1,960	1,949	1,644	1,927	2,572	2,560
CR	CR5	168	279	910	1,219	1,187	1,318	2,124	2,112	1,782	2,089	2,788	2,774
CR	CR6	240	399	1,300	1,741	1,696	1,882	5,221	5,152	4,566	4,899	5,799	5,682
GH	GH1	475	0	0	0	0	0	5,620	5,988	6,566	7,371	8,085	8,761
GH	GH2	484	0	0	0	0	0	5,727	6,101	6,691	7,510	8,238	8,927
GH	GH3	480	0	0	0	0	0	5,680	6,051	6,635	7,448	8,170	8,854
GH	GH4	479	0	0	0	0	0	5,668	6,038	6,622	7,433	8,153	8,835
GR	GR3	68											
GR	GR4	95											
MC	MC1	303											
MC	MC2	301											
MC	MC3	391											
MC	MC4	477											
TC	TC1	383	0	0	0	0	0	1,965	2,066	2,172	2,216	2,260	2,305
TC	TC2	549	0	0	0	0	0	2,817	2,961	3,114	3,176	3,240	3,304
TY	TY3	71											
BR Landfill Phase 2 Savings			0	0	0	0	0	0	0	828	908	1,960	1,870
BR Landfill Phase 3 Savings			0	0	0	0	0	0	0	0	0	0	0
BR Landfill O&M Savings			0	0	0	0	0	2,985	3,075	3,167	3,262	3,360	3,461
CR Landfill Capital Savings			936	3,049	4,083	3,979	4,416	4,938	4,772	3,579	4,464	6,617	6,353
CR Landfill O&M Savings			0	0	0	0	0	2,181	2,307	2,393	2,537	2,726	2,944
CR6 Stator Rewind Savings			0	0	0	0	0	2,187	2,135	2,020	1,914	1,816	1,719
GH Landfill Capital Savings			0	0	0	0	0	61	188	1,083	2,805	4,044	4,399
GH Landfill O&M Savings			0	0	0	0	0	22,633	23,991	25,431	26,957	28,601	30,979
TC Landfill Capital Savings			0	0	0	0	0	0	0	0	0	0	0
TC Landfill O&M Savings			0	0	0	0	0	4,782	5,027	5,286	5,392	5,500	5,610

Station	Unit	Capacity	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
BR	BR1	101	789	1,035	1,054	1,357	1,337	1,319	1,301	1,285	1,267	1,122	410
BR	BR2	167	1,305	1,711	1,743	2,245	2,211	2,180	2,151	2,124	2,095	1,855	678
BR	BR3	416	3,252	4,261	4,342	5,591	5,508	5,431	5,359	5,291	5,219	4,620	1,688
CR	CR4	155	2,096	2,059	2,073	1,531	1,768	1,810	1,869	1,932	2,000	1,861	1,810
CR	CR5	168	2,272	2,232	2,247	1,659	1,916	1,962	2,025	2,094	2,168	2,017	1,962
CR	CR6	240	4,867	4,712	4,637	3,700	3,969	3,960	4,000	4,047	4,101	3,833	3,704
GH	GH1	475	9,219	9,707	10,790	12,508	14,281	15,439	15,604	16,273	16,860	17,332	17,856
GH	GH2	484	9,394	9,891	10,994	12,745	14,551	15,732	15,900	16,581	17,180	17,660	18,195
GH	GH3	480	9,316	9,809	10,904	12,640	14,431	15,602	15,769	16,444	17,038	17,514	18,044
GH	GH4	479	9,297	9,789	10,881	12,614	14,401	15,569	15,736	16,410	17,002	17,478	18,007
GR	GR3	68											
GR	GR4	95											
MC	MC1	303											
MC	MC2	301											
MC	MC3	391											
MC	MC4	477											
TC	TC1	383	2,351	2,398	2,446	2,495	2,545	2,596	2,648	5,363	8,239	8,294	12,354
TC	TC2	549	3,371	3,438	3,507	3,577	3,648	3,721	3,796	7,687	11,809	11,888	17,709
TY	TY3	71											

	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
BR Landfill Phase 2 Savings	1,782	1,697	1,613	1,531	1,451	1,372	1,294	1,215	1,123	156	138
BR Landfill Phase 3 Savings	0	1,638	1,745	3,767	3,594	3,426	3,261	3,101	2,943	2,789	2,638
BR Landfill O&M Savings	3,564	3,671	3,781	3,895	4,012	4,132	4,256	4,384	4,515	4,651	
CR Landfill Capital Savings	4,493	4,170	4,023	1,844	2,496	2,513	2,483	2,455	2,429	1,631	1,345
CR Landfill O&M Savings	3,121	3,308	3,507	3,717	3,925	4,061	4,305	4,563	4,837	5,128	5,230
CR6 Stator Rewind Savings	1,621	1,524	1,427	1,329	1,232	1,158	1,106	1,055	1,004	952	901
GH Landfill Capital Savings	4,388	4,387	6,672	11,397	16,206	18,397	18,341	18,358	17,892	16,784	15,709
GH Landfill O&M Savings	32,838	34,808	36,897	39,110	41,457	43,944	44,668	47,348	50,189	53,201	56,393
TC Landfill Capital Savings	0	0	0	0	0	0	0	6,478	13,344	13,344	23,088
TC Landfill O&M Savings	5,722	5,836	5,953	6,072	6,194	6,318	6,444	6,573	6,704	6,838	6,975

Station	Unit	Capacity	2033	2034	2035	2036	2037	2038	2039	2040
BR	BR1	101	385	360	331	54	46	38	30	23
BR	BR2	167	636	595	547	89	76	63	50	39
BR	BR3	416	1,585	1,482	1,363	222	189	157	124	97
CR	CR4	155	1,778	1,748	1,719	1,692	1,708	1,727	1,747	1,771
CR	CR5	168	1,927	1,895	1,864	1,834	1,851	1,872	1,894	1,919
CR	CR6	240	3,602	2,777	2,662	2,620	2,645	2,674	2,705	2,742
GH	GH1	475	18,548	19,372	20,254	21,186	21,692	2,492	1,854	1,700
GH	GH2	484	18,899	19,739	20,637	21,587	22,103	2,539	1,889	1,733
GH	GH3	480	18,743	19,576	20,467	21,409	21,921	2,518	1,874	1,718
GH	GH4	479	18,704	19,535	20,424	21,364	21,875	2,513	1,870	1,715
GR	GR3	68								
GR	GR4	95								
MC	MC1	303								
MC	MC2	301								
MC	MC3	391								
MC	MC4	477								
TC	TC1	383	12,003	11,666	11,343	11,031	10,731	10,442	10,162	9,886
TC	TC2	549	17,206	16,723	16,259	15,812	15,382	14,967	14,567	14,170
TY	TY3	71								

	2033	2034	2035	2036	2037	2038	2039	2040
BR Landfill Phase 2 Savings	120	101	83	64	46	28	9	0
BR Landfill Phase 3 Savings	2,487	2,336	2,158	301	265	230	194	159
BR Landfill O&M Savings								
CR Landfill Capital Savings	1,123	908	695	485	430	384	338	303
CR Landfill O&M Savings	5,335	5,441	5,550	5,661	5,774	5,890	6,008	6,128
CR6 Stator Rewind Savings	850	70	0	0	0	0	0	0
GH Landfill Capital Savings	15,118	14,860	14,617	14,352	12,126	9,906	7,329	6,705
GH Landfill O&M Savings	59,776	63,363	67,165	71,194	75,466	155	158	161
TC Landfill Capital Savings	22,094	21,132	20,199	19,293	18,412	17,554	16,717	15,883
TC Landfill O&M Savings	7,115	7,257	7,402	7,550	7,701	7,855	8,012	8,172

		$000																	
Station	Unit	Capacity	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
BR	BR1	101	0	0	0	553	743	703	668	635	606	577	548	519	491	462	433	413	403	393
BR	BR2	167	0	0	0	915	1,228	1,163	1,104	1,050	1,002	954	907	859	811	764	716	684	666	649
BR	BR3	416	0	0	0	2,279	3,060	2,897	2,749	2,616	2,496	2,377	2,258	2,140	2,021	1,902	1,784	1,703	1,660	1,617
CR	CR4	155	0	0	0	980	1,582	1,494	1,413	1,339	1,269	1,201	1,132	1,064	996	927	859	806	770	735
CR	CR5	168	0	0	0	1,062	1,715	1,619	1,532	1,451	1,376	1,302	1,227	1,153	1,079	1,005	931	874	835	796
CR	CR6	240	0	0	0	1.518	2,449	2,313	2,188	2,073	1,966	1,860	1,754	1,647	1,541	1,435	1,329	1,249	1,193	1,137
GH	GH1	475	0	0	0	1,462	1,954	1,856	1,767	1,686	1,611	1,540	1,468	1,397	1,325	1,254	1,183	1,111	1,062	1,035
GH	GH2	484	0	0	0	1,489	1,991	1,891	1,800	1,718	1,642	1,569	1,496	1,423	1,350	1,278	1,205	1,132	1,082	1,055
GH	GH3	480	0	0	0	1,477	1,975	1,876	1,786	1,703	1,628	1,556	1,484	1,411	1,339	1,267	1,195	1,123	1,073	1,046
GH	GH4	479	0	0	0	1,474	1,971	1,872	1,782	1,700	1,625	1,553	1,481	1,409	1,337	1,265	1,193	1,121	1,071	1,044
GR	GR3	68	0	0	0	586	837	792	751	713	679	645	611	577	544	510	476	452	438	423
GR	GR4	95	0	0	0	819	1,169	1,106	1,049	996	948	901	854	807	759	712	665	631	611	591
MC	MC1	303	0	0	0	1,215	1,774	1,682	1,598	1,521	1,449	1,380	1,311	1,242	1,173	1,103	1,034	965	915	882
MC	MC2	301	0	0	0	1,207	1,762	1,671	1,588	1,511	1,440	1,371	1,302	1,234	1,165	1,096	1,027	959	908	877
MC	MC3	391	0	0	0	1,568	2,289	2,171	2,063	1,963	1,870	1,781	1,692	1,602	1,513	1,424	1,335	1,245	1,180	1,139
MC	MC4	477	0	0	0	1,913	2,792	2,648	2,516	2,394	2,281	2,172	2,064	1,955	1,846	1,737	1,628	1,519	1,440	1,389
TC	TC1	383	0	0	0	770	1,008	958	912	871	833	797	760	724	688	652	616	579	555	542
TC	TC2	549	0	0	0	1,104	1,445	1,373	1,307	1,248	1,194	1,142	1,090	1,038	986	934	882	830	795	777
TY	TY3	71	0	0	0	586	837	792	751	713	679	645	611	577	544	510	476	452	438	423

BRWATER	0	0	0	3,747	5,032	4,763	4,521	4,302	4,104	3,908	3,713	3,518	3,323	3,128	2,933	2,800	2,729	2,659
CRWATER	0	0	0	3,560	5,746	5,427	5,134	4,863	4,611	4,362	4,113	3,865	3,616	3,367	3,118	2,929	2,798	2,668
MCWATER	0	0	0	5,902	8,617	8,173	7,765	7,389	7,040	6,704	6,368	6,032	5,696	5,361	5,025	4,689	4,443	4,287
TCWATER	0	0	0	1,874	2,453	2,331	2,220	2,119	2,026	1,938	1,850	1,762	1,674	1,586	1,498	1,410	1,350	1,319
GHWATER	0	0	0	5,902	7,892	7,495	7,135	6,806	6,505	6,217	5,928	5,640	5,352	5,063	4,775	4,487	4,288	4,180
GRWATER	0	0	0	1,405	2,006	1,898	1,799	1,709	1,627	1,546	1,465	1,384	1,303	1,222	1,141	1,083	1,049	1,015

Station	Unit	Capacity	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
BR	BR1	101	382	372	361	351	340	330	320	309	299	288	278	267	257	247	236	226	215	205
BR	BR2	167	632	615	597	580	563	546	528	511	494	477	459	442	425	408	390	373	356	339
BR	BR3	416	1,574	1,531	1,488	1,445	1,402	1,359	1,316	1,273	1,230	1,187	1,144	1,101	1,058	1,016	973	930	887	844
CR	CR4	155	699	663	627	591	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR5	168	757	718	679	640	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR6	240	1,082	1,026	970	915	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GH	GH1	475	1,008	982	955	928	901	875	848	821	794	767	741	714	687	660	634	607	580	553
GH	GH2	484	1,028	1,000	973	946	918	891	864	837	809	782	755	727	700	673	646	618	591	564
GH	GH3	480	1,019	992	965	938	911	884	857	830	803	776	748	721	694	667	640	613	586	559
GH	GH4	479	1,017	990	963	936	909	882	855	828	801	774	747	720	693	666	639	612	585	558
GR	GR3	68	409	395	380	366	352	337	323	309	294	280	266	251	237	0	0	0	0	0
GR	GR4	95	571	551	531	511	491	471	451	431	411	391	371	351	331	0	0	0	0	0
MC	MC1	303	850	818	786	754	722	690	658	626	594	562	530	0	0	0	0	0	0	0
MC	MC2	301	845	813	781	749	717	686	654	622	590	558	526	0	0	0	0	0	0	0
MC	MC3	391	1,097	1,056	1,015	973	932	891	849	808	766	725	684	0	0	0	0	0	0	0
MC	MC4	477	1,339	1,288	1,238	1,187	1,137	1,086	1,036	986	935	885	834	0	0	0	0	0	0	0
TC	TC1	383	529	517	504	491	479	466	453	441	428	415	403	390	377	364	352	339	326	314
TC	TC2	549	759	741	723	704	686	668	650	632	613	595	577	559	541	522	504	486	468	450
TY	TY3	71	409	395	380	366	352	337	323	309	294	280	266	251	237	0	0	0	0	0
		BRWATER	2,588	2,517	2,447	2,376	2,305	2,235	2,164	2,094	2,023	1,952	1,882	1,811	1,740	1,670	1,599	1,529	1,458	1.387
		CRWATER	2,537	2,407	2,277	2,146	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		MCWATER	4,131	3,976	3,820	3,664	3,508	3,353	3,197	3,041	2,886	2,730	2,574	0	0	0	0	0	0	0
		TCWATER	1,288	1,258	1,227	1,196	1,165	1,134	1,103	1,072	1,041	1,010	979	949	918	887	856	825	794	763
		GHWATER	4,072	3,964	3,856	3,748	3,640	3,531	3,423	3,315	3,207	3,099	2,991	2,883	2,774	2,666	2,558	2,450	2,342	2,234
		GRWATER	980	946	912	877	843	809	774	740	706	671	637	603	568	0	0	0	0	0

Station	Unit	Capacity	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059
BR	BR1	101	194	184	174	0	0	0	0	0	0	0	0	0	0
BR	BR2	167	321	304	287	0	0	0	0	0	0	0	0	0	0
BR	BR3	416	801	758	715	0	0	0	0	0	0	0	0	0	0
CR	CR4	155	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR5	168	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR6	240	0	0	0	0	0	0	0	0	0	0	0	0	0
GH	GH1	475	526	500	473	446	0	0	0	0	0	0	0	0	0
GH	GH2	484	536	509	482	454	0	0	0	0	0	0	0	0	0
GH	GH3	480	532	505	478	451	0	0	0	0	0	0	0	0	0
GH	GH4	479	531	504	477	450	0	0	0	0	0	0	0	0	0
GR	GR3	68	0	0	0	0	0	0	0	0	0	0	0	0	0
GR	GR4	95	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC1	303	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC2	301	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC3	391	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC4	477	0	0	0	0	0	0	0	0	0	0	0	0	0
TC	TC1	383	301	288	276	263	250	237	225	212	0	0	0	0	0
TC	TC2	549	431	413	395	377	359	340	322	304	0	0	0	0	0
TY	TY3	71	0	0	0	0	0	0	0	0	0	0	0	0	0
		BRWATER	1,317	1,246	1,175	0	0	0	0	0	0	0	0	0	0
		CRWATER	0	0	0	0	0	0	0	0	0	0	0	0	0
		MCWATER	0	0	0	0	0	0	0	0	0	0	0	0	0
		TCWATER	732	701	670	640	609	578	547	516	0	0	0	0	0
		GHWATER	2,125	2,017	1,909	1,801	0	0	0	0	0	0	0	0	0
		GRWATER	0	0	0	0	0	0	0	0	0	0	0	0	0

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
		Retire:																
	No Retirements	TY	TY GR3	TY GR3 BR3	TY GR3 CR4	TY GR3 CR4 CR6	TY GR3 CR4 CR6 BR1-2	TY GR3 CR	TY GR3 CR GH3	TY GR3 CR GH1	TY GR CR	TY GR CR MC4	TY GR CR TC1	TY GR CR GH4	TY GR CR MC3	TY GR CR GH2	TY GR CR MC1-2	TY GR CR BR1-2 MC1-2
2010																		
2011																		
2012																		
2013																		
2014																		
2015																		
2016		3x1C(1)	3x1C(1)	3x1C(1)	2x1C(1)	3x1C(1)	3x1C(1)	3x1C(1)	3x1C(1) 2x1C(1)	3x1C(2)	3x1C(1)	3x1C(2)	3x1C(1) 2x1C(1)	3x1C(2)	3x1C(1) 2x1C(1)	3x1C(2)	3x1C(2)	3x1C(2)
2017	3x1C(1)																	
2018							3x1C(1)				3x1C(1)							
2019					2x1C(1)			3x1C(1)										3x1C(1)
2020				3x1C(1)		3x1C(1)			3x1C(1)				3x1C(1)		3x1C(1)		3x1C(1)	
2021												2x1C(1)		2x1C(1)		2x1C(1)		
2022										3x1C(1)								
2023			3x1C(1)															
2024	3x1C(1)	3x1C(1)			3x1C(1)		3x1C(1)				3x1C(1)							
2025								3x1C(1)				3x1C(1)		3x1C(1)		3x1C(1)		3x1C(1)
2026				3x1C(1)		3x1C(1)			3x1C(1)				3x1C(1)		3x1C(1)		3x1C(1)	
2027																		
2028										3x1C(1)								
2029			3x1C(1)															
2030	3x1C(1)	3x1C(1)			3x1C(1)													
2031							3x1C(1)	2x1C(1)			3x1C(1)							3x1C(1)
2032												3x1C(1)		3x1C(1)		3x1C(1)		
2033				3x1C(1)		3x1C(1)			3x1C(1)				3x1C(1)		3x1C(1)			
2034																	3x1C(1)	
2035										2x1C(1)								
2036	3x1C(1)	3x1C(1)	2x1C(1)					3x1C(1)										
2037					3x1C(1)		3x1C(1)				3x1C(1)							
2038																		3x1C(1)
2039												2x1C(1)		2x1C(1)		2x1C(1)		
2040			2x1C(1)	2x1C(1)		2x1C(1)			2x1C(1)	3x1C(1)			3x1C(1)		3x1C(1)		2x1C(1)	

AESC Gas Prices (Nominal $) and Low CO2 Prices

Discount Rate: 6.71%

	$M NPVRR	$000 2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
New Unit Capital and Production Cost																								
No Retirements	35,386	913,464	993,415	1,046,587	1,139,294	1,267,451	1,420,359	1,440,881	1,510,245	1,594,471	2,375,898	2,560,251	2,816,145	3,023,855	3,151,539	3,327,157	3,549,381	3,710,129	3,987,360	4,254,836	4,494,568	4,678,584	4,912,877	5,184,024
Retire TY	35,448	913,464	993,415	1,051,778	1,172,334	1,302,885	1,417,356	1,434,190	1,504,372	1,590,513	2,373,077	2,561,422	2,820,044	3,032,825	3,152,069	3,324,583	3,551,764	3,712,054	3,992,714	4,262,669	4,496,657	4,677,802	4,914,237	5,187,207
Retire TY and GR3	35,508	913,464	993,415	1,051,778	1,169,483	1,300,358	1,418,810	1,436,014	1,506,818	1,594,933	2,384,706	2,614,207	2,877,720	3,015,351	3,130,868	3,320,117	3,560,579	3,763,090	4,050,029	4,246,081	4,465,667	4,664,131	4,902,413	5,175,585
Retire TY GR3 and BR3	36,145	913,464	993,415	1,051,778	1,169,483	1,296,124	1,446,986	1,480,546	1,597,997	1,751,836	2,510,256	2,670,500	2,866,744	3,020,868	3,211,784	3,471,579	3,687,071	3,829,565	4,041,384	4,246,247	4,487,046	4,755,888	5,069,716	5,322,906
Retire TY GR3 and CR4	35,771	913,464	993,415	1,050,375	1,157,918	1,278,217	1,409,605	1,461,743	1,571,555	1,672,770	2,433,010	2,611,087	2,861,280	3,065,194	3,198,977	3,377,900	3,594,976	3,754,706	4,027,984	4,292,934	4,532,266	4,721,491	4,953,666	5,213,516
Retire TY GR3 CR4 and CR6	36,179	913,464	993,415	1,051,778	1,170,733	1,302,220	1,458,509	1,488,230	1,610,145	1,768,143	2,516,653	2,673,773	2,871,051	3,023,171	3,211,434	3,473,814	3,717,625	3,829,834	4,039,470	4,245,515	4,481,993	4,745,243	5,062,159	5,317,520
Retire TY GR3 CR4 CR6 and BR1-2	36,638	913,464	993,415	1,051,778	1,167,294	1,302,176	1,543,836	1,621,288	1,691,478	1,764,425	2,512,208	2,687,844	2,938,504	3,144,725	3,271,886	3,456,317	3,669,435	3,826,932	4,053,584	4,322,836	4,630,264	4,798,397	5,040,235	5,302,094
Retire TY GR3 and CR	36,486	913,464	993,415	1,051,778	1,170,499	1,301,958	1,493,450	1,561,858	1,694,616	1,786,857	2,517,089	2,681,389	2,887,620	3,088,688	3,290,579	3,470,297	3,676,185	3,833,515	4,053,513	4,300,564	4,586,063	4,764,124	5,008,409	5,281,177
Retire TY GR3 CR and GH3	37,328	913,464	993,415	1,055,565	1,200,807	1,357,934	1,625,785	1,628,446	1,758,808	1,916,023	2,623,090	2,776,637	2,967,135	3,124,819	3,318,438	3,583,266	3,821,252	3,933,438	4,142,654	4,351,121	4,582,885	4,841,546	5,165,529	5,417,273
Retire TY GR3 CR and GH1	37,292	913,463	993,415	1,050,944	1,201,446	1,363,290	1,638,575	1,646,212	1,718,068	1,825,555	2,603,955	2,836,695	3,009,921	3,146,087	3,284,519	3,485,965	3,777,074	3,988,927	4,178,979	4,393,803	4,600,648	4,800,794	5,053,106	5,376,837
Retire TY GR and CR	36,620	913,464	993,415	1,051,778	1,165,191	1,301,146	1,545,568	1,620,225	1,694,133	1,765,367	2,513,844	2,688,417	2,935,439	3,143,882	3,269,946	3,457,372	3,667,043	3,825,700	4,052,105	4,316,326	4,626,984	4,795,028	5,037,464	5,297,207
Retire TY GR CR and MC4	37,627	913,464	993,415	1,056,968	1,204,690	1,359,022	1,667,456	1,665,874	1,745,380	1,882,145	2,659,733	2,814,804	2,997,650	3,205,707	3,406,628	3,590,420	3,791,092	3,955,229	4,166,709	4,391,640	4,662,258	4,950,046	5,171,518	5,441,288
Retire TY GR CR and TC1	37,560	913,464	993,415	1,055,565	1,195,500	1,353,146	1,639,281	1,638,857	1,772,705	1,931,663	2,643,408	2,795,450	2,991,320	3,147,901	3,348,493	3,607,416	3,844,554	3,955,256	4,172,912	4,375,146	4,617,751	4,876,678	5,204,325	5,440,444
Retire TY GR CR and GH4	37,672	913,464	993,415	1,056,969	1,206,729	1,375,776	1,676,855	1,666,862	1,748,737	1,886,280	2,663,254	2,816,680	2,999,550	3,206,655	3,410,347	3,589,725	3,795,427	3,956,351	4,171,134	4,383,288	4,680,917	4,949,735	5,178,097	5,438,888
Retire TY GR CR and MC3	37,468	913,464	993,415	1,053,290	1,191,920	1,347,529	1,626,872	1,637,218	1,762,525	1,910,346	2,633,975	2,788,778	2,984,384	3,139,734	3,340,552	3,605,249	3,830,892	3,946,762	4,165,491	4,370,268	4,609,028	4,870,010	5,194,908	5,436,084
Retire TY GR CR and GH2	37,710	913,464	993,289	1,055,474	1,203,554	1,361,496	1,673,430	1,671,048	1,755,027	1,876,989	2,670,294	2,820,995	3,010,617	3,212,752	3,420,081	3,594,260	3,796,314	3,964,017	4,179,817	4,400,640	4,686,059	4,962,504	5,184,057	5,442,901
Retire TY GR CR and MC1-2	38,046	913,464	993,415	1,056,968	1,206,729	1,361,976	1,726,733	1,703,132	1,829,604	1,984,570	2,687,478	2,845,239	3,036,467	3,197,983	3,395,364	3,657,287	3,886,314	4,006,913	4,219,788	4,431,364	4,653,872	4,869,053	5,186,952	5,541,387
Retire TY GR CR BR1-2 and MC1-2	38,617	913,464	993,415	1,056,968	1,203,505	1,356,657	1,859,964	1,805,862	1,950,693	2,020,043	2,694,980	2,863,245	3,068,905	3,283,703	3,507,820	3,658,716	3,865,080	4,022,106	4,251,904	4,526,594	4,826,545	4,987,613	5,234,611	5,501,240
Production Cost																								
No Retirements	33,372	913,464	993,415	1,046,587	1,133,974	1,224,875	1,337,871	1,319,204	1,393,831	1,482,952	2,268,944	2,451,239	2,666,846	2,830,985	2,927,997	3,100,114	3,332,092	3,494,861	3,729,730	3,950,858	4,159,049	4,343,034	4,591,525	4,866,757
Retire TY	33,393	913,464	993,415	1,046,587	1,130,796	1,222,409	1,298,646	1,320,615	1,395,573	1,486,168	2,272,894	2,458,815	2,676,929	2,846,044	2,934,522	3,103,441	3,340,282	3,502,498	3,740,701	3,964,214	4,166,567	4,346,471	4,595,922	4,872,939
Retire TY and GR3	33,390	913,464	993,415	1,046,587	1,127,945	1,219,882	1,300,100	1,322,439	1,398,019	1,490,588	2,278,353	2,468,550	2,689,554	2,797,261	2,909,363	3,108,128	3,350,561	3,511,743	3,753,465	3,918,746	4,138,301	4,350,617	4,601,182	4,880,026
Retire TY GR3 and BR3	33,674	913,464	993,415	1,046,587	1,127,945	1,215,648	1,328,277	1,361,242	1,443,349	1,558,660	2,289,948	2,447,414	2,652,765	2,808,989	2,961,797	3,179,873	3,367,060	3,509,795	3,735,782	3,954,393	4,200,664	4,426,114	4,691,331	4,912,020
Retire TY GR3 and CR4	33,429	913,464	993,415	1,046,588	1,127,610	1,219,497	1,318,909	1,346,234	1,428,934	1,511,121	2,269,644	2,448,037	2,660,237	2,822,769	2,927,860	3,105,164	3,333,875	3,497,507	3,730,305	3,950,789	4,160,461	4,350,723	4,598,492	4,873,473
Retire TY GR3 CR4 and CR6	33,708	913,464	993,415	1,046,587	1,129,195	1,221,744	1,339,800	1,368,926	1,455,497	1,574,967	2,296,345	2,450,687	2,657,072	2,811,292	2,961,447	3,182,108	3,397,614	3,510,064	3,733,868	3,953,661	4,195,611	4,415,469	4,683,774	4,906,634
Retire TY GR3 CR4 CR6 and BR1-2	33,843	913,464	993,415	1,046,587	1,125,756	1,216,247	1,381,486	1,423,163	1,468,343	1,539,386	2,296,404	2,474,345	2,688,915	2,855,609	2,956,011	3,140,854	3,367,639	3,538,404	3,770,446	3,999,641	4,263,105	4,401,493	4,644,768	4,922,631
Retire TY GR3 and CR	33,828	913,464	993,415	1,046,587	1,128,961	1,221,482	1,369,151	1,403,552	1,499,154	1,565,317	2,293,195	2,466,596	2,674,968	2,838,949	3,000,231	3,152,426	3,358,642	3,529,886	3,757,904	3,979,681	4,236,835	4,396,468	4,644,776	4,924,557
Retire TY GR3 CR and GH3	34,212	913,464	993,415	1,046,587	1,128,961	1,218,738	1,427,669	1,425,321	1,523,861	1,645,833	2,328,836	2,482,480	2,684,867	2,847,435	3,005,728	3,231,620	3,444,084	3,559,294	3,785,461	4,010,459	4,250,478	4,467,704	4,744,206	4,964,580
Retire TY GR3 CR and GH1	34,181	913,463	993,415	1,040,563	1,118,371	1,202,338	1,411,038	1,417,760	1,499,220	1,609,641	2,354,258	2,549,682	2,697,620	2,834,360	2,985,982	3,193,258	3,447,952	3,619,597	3,783,533	4,002,234	4,227,587	4,443,552	4,702,984	4,997,134
Retire TY GR and CR	33,825	913,464	993,415	1,046,587	1,123,653	1,215,217	1,383,218	1,422,100	1,470,998	1,540,328	2,298,040	2,474,918	2,685,850	2,854,766	2,954,071	3,141,909	3,365,247	3,537,172	3,768,967	3,993,131	4,259,825	4,398,124	4,641,997	4,917,744
Retire TY GR CR and MC4	34,405	913,464	993,415	1,046,587	1,121,615	1,198,070	1,439,919	1,437,422	1,522,247	1,637,960	2,391,770	2,531,277	2,710,236	2,884,478	3,048,076	3,207,524	3,411,483	3,592,390	3,820,230	4,053,447	4,285,767	4,529,006	4,719,398	4,991,193
Retire TY GR CR and TC1	34,425	913,464	993,415	1,046,587	1,123,654	1,213,950	1,441,165	1,435,732	1,537,758	1,661,473	2,349,154	2,501,293	2,709,052	2,870,517	3,035,783	3,255,770	3,467,386	3,581,112	3,815,719	4,034,484	4,285,344	4,502,836	4,783,002	4,987,751
Retire TY GR CR and GH4	34,451	913,464	993,415	1,046,588	1,123,654	1,214,824	1,449,318	1,438,410	1,525,604	1,642,095	2,395,291	2,533,153	2,712,136	2,885,426	3,051,795	3,206,829	3,415,818	3,593,512	3,824,655	4,045,095	4,304,426	4,528,695	4,725,977	4,988,793
Retire TY GR CR and MC3	34,333	913,464	993,415	1,044,312	1,120,074	1,208,333	1,428,756	1,434,093	1,527,578	1,640,156	2,339,721	2,494,621	2,702,116	2,862,350	3,027,842	3,253,603	3,453,724	3,572,618	3,808,298	4,029,606	4,276,621	4,496,168	4,773,585	4,983,391
Retire TY GR CR and GH2	34,489	913,464	993,289	1,045,093	1,120,479	1,200,544	1,445,893	1,442,596	1,531,894	1,632,804	2,402,331	2,537,468	2,723,203	2,891,523	3,061,529	3,211,364	3,416,705	3,601,178	3,833,338	4,062,447	4,309,568	4,541,464	4,731,937	4,992,806
Retire TY GR CR and MC1-2	34,721	913,464	993,415	1,046,587	1,123,654	1,201,024	1,499,196	1,468,950	1,564,906	1,685,845	2,365,827	2,524,750	2,728,898	2,896,328	3,059,415	3,283,433	3,487,969	3,612,624	3,843,480	4,072,618	4,312,310	4,533,992	4,807,390	5,113,282
Retire TY GR CR BR1-2 and MC1-2	35,042	913,464	993,415	1,046,587	1,120,430	1,195,705	1,626,838	1,532,678	1,645,181	1,692,954	2,369,743	2,551,048	2,762,663	2,944,188	3,131,510	3,258,698	3,469,203	3,643,958	3,883,557	4,122,555	4,382,730	4,516,951	4,767,152	5,052,740
Production Cost Delta																								
No Retirements																								
Retire TY	21	0	0	0	-3,177	-2,466	-39,225	1,412	1,742	3,215	3,950	7,576	10,083	15,060	6,525	3,327	8,189	7,637	10,971	13,356	7,518	3,437	4,397	6,181
Retire TY and GR3	-2	0	0	0	-2,851	-2,527	1,454	1,824	2,446	4,420	5,459	9,734	12,625	-48,783	-25,159	4,687	10,280	9,246	12,764	-45,469	-28,265	4,146	5,261	7,087
Retire TY GR3 and BR3	284	0	0	0	0	-4,234	28,176	38,803	45,329	68,072	11,595	-21,135	-36,789	11,728	52,434	71,745	16,498	-1,948	-17,684	35,647	62,362	75,498	90,149	31,994
Retire TY GR3 and CR4	39	0	0	0	-336	-385	18,809	23,795	30,915	20,534	-8,709	-20,512	-29,317	25,508	18,497	-2,964	-16,686	-14,236	-23,161	32,043	22,160	106	-2,690	-6,552
Retire TY GR3 CR4 and CR6	279	0	0	0	1,586	2,247	20,890	22,692	26,562	63,846	26,701	2,650	-3,165	-11,477	33,587	76,944	63,738	12,557	3,563	2,872	35,150	64,747	85,282	33,161
Retire TY GR3 CR4 CR6 and BR1-2	135	0	0	0	-3,439	-5,497	41,687	54,237	12,846	-35,581	59	23,658	31,843	44,318	-5,435	-41,253	-29,974	28,339	36,578	45,980	67,495	-13,976	-39,006	15,997
Retire TY GR3 and CR	121	0	0	0	-234	-262	29,351	34,626	43,657	-9,650	-3,150	15,909	17,896	27,657	38,784	-29,682	-38,972	19,822	24,036	26,020	41,225	-19,001	-38,998	17,924
Retire TY GR3 CR and GH3	383	0	0	0	0	-2,744	58,518	21,769	24,708	80,516	35,641	15,884	9,900	8,486	5,497	79,194	85,442	29,408	27,557	30,778	13,642	71,236	99,431	40,022
Retire TY GR3 CR and GH1	353	0	0	-6,025	-10,591	-19,144	41,888	14,208	67	44,325	61,063	83,086	22,652	-4,589	-14,249	40,831	89,310	89,711	25,630	22,554	-9,249	47,084	58,208	72,577
Retire TY GR and CR	-4	0	0	0	-5,308	-6,265	14,067	18,548	-28,156	-24,989	4,845	8,323	10,882	15,818	-46,159	-10,517	6,605	7,286	11,063	13,450	22,990	1,656	-2,778	-6,813
Retire TY GR CR and MC4	580	0	0	-1	-2,039	-17,147	56,701	15,321	51,249	97,632	93,730	56,359	24,386	29,712	94,005	65,615	46,236	55,218	51,263	60,316	25,942	130,882	77,401	73,449
Retire TY GR CR and TC1	600	0	0	0	1	-1,267	57,947	13,631	66,761	121,145	51,114	26,375	23,202	15,750	81,712	113,861	102,139	43,941	46,752	41,353	25,519	104,712	141,005	70,007
Retire TY GR CR and GH4	626	0	0	0	0	-393	66,100	16,309	54,606	101,767	97,251	58,235	26,286	30,660	97,724	64,920	50,571	56,340	55,688	51,964	44,601	130,571	83,980	71,049
Retire TY GR CR and MC3	508	0	0	-2,275	-3,579	-6,884	45,538	11,992	56,581	99,828	41,681	19,703	16,266	7,583	73,771	111,694	88,477	35,447	39,331	36,475	16,796	98,044	131,588	65,647
Retire TY GR CR and GH2	664	0	-126	-1,495	-3,175	-14,673	62,675	20,495	60,896	92,476	104,291	62,550	37,353	36,757	107,458	69,455	51,458	64,006	64,371	69,316	49,743	143,340	89,940	75,062
Retire TY GR CR and MC1-2	896	0	0	-1	0	-14,193	115,978	46,850	93,909	145,517	67,786	49,831	43,048	41,562	105,344	141,524	122,722	75,452	74,513	79,487	52,485	135,868	165,393	195,538
Retire TY GR CR BR1-2 and MC1-2	1,217	0	0	-1	-3,224	-19,512	243,620	110,578	174,183	152,626	71,702	76,130	76,813	89,422	177,439	116,788	103,956	106,786	114,590	129,425	122,905	118,827	125,155	134,996
New Unit Capital																								
No Retirements	2,014	0	0	0	5,320	42,576	82,488	121,677	116,414	111,519	106,954	109,012	149,299	192,870	223,542	227,043	217,289	215,268	257,630	303,978	335,519	335,550	321,352	317,267
Retire TY	2,056	0	0	5,191	41,538	80,476	118,710	113,575	108,799	104,346	100,183	102,607	143,115	186,781	217,547	221,142	211,482	209,556	252,013	298,455	330,090	331,331	318,315	314,268
Retire TY and GR3	2,117	0	0	5,191	41,538	80,476	118,710	113,575	108,799	104,346	106,353	145,658	188,166	218,090	221,505	211,989	210,018	251,347	296,564	327,336	327,366	313,515	301,231	295,559
Retire TY GR3 and BR3	2,471	0	0	5,191	41,538	80,476	118,710	119,304	154,648	193,176	220,308	223,086	213,979	211,879	249,988	291,706	320,011	319,770	305,602	291,854	286,382	329,774	378,385	410,886
Retire TY GR3 and CR4	2,342	0	0	3,787	30,308	58,720	90,696	115,509	142,621	161,649	163,366	163,050	201,043	242,425	271,117	272,736	261,101	257,199	297,679	342,146	371,805	370,769	355,174	340,043
Retire TY GR3 CR4 and CR6	2,471	0	0	5,191	41,538	80,476	118,710	119,304	154,648	193,176	220,308	223,086	213,979	211,879	249,988	291,706	320,012	319,770	305,602	291,854	286,382	329,774	378,385	410,886
Retire TY GR3 CR4 CR6 and BR1-2	2,795	0	0	5,191	41,538	85,929	162,350	198,125	223,135	225,039	215,804	213,499	249,589	289,116	315,875	315,463	301,796	288,529	283,138	323,195	367,159	396,904	395,467	379,463
Retire TY GR3 and CR	2,658	0	0	5,191	41,538	80,476	124,299	158,306	195,463	221,541	223,894	214,793	212,652	249,739	290,348	317,871	317,543	303,629	295,610	320,884	349,228	367,656	363,633	356,620
Retire TY GR3 CR and GH3	3,117	0	0	8,978	71,846	139,196	198,116	203,126	234,947	270,191	294,254	294,157	282,268	277,385	312,710	351,646	377,168	374,144	357,193	340,662	332,407	373,842	421,323	452,693
Retire TY GR3 CR and GH1	3,111	0	0	10,381	83,075	160,952	227,537	228,452	218,848	215,914	249,697	287,014	312,301	311,727	298,537	292,708	329,122	369,330	395,446	391,569	373,061	357,242	350,123	379,703
Retire TY GR and CR	2,795	0	0	5,191	41,538	85,929	162,350	198,125	223,135	225,039	215,804	213,499	249,589	289,116	315,875	315,463	301,796	288,528	283,138	323,195	367,159	396,904	395,467	379,463
Retire TY GR CR and MC4	3,222	0	0	10,381	83,075	160,952	227,537	228,452	223,133	244,185	267,963	283,527	287,414	321,229	358,552	382,896	379,609	362,839	346,479	338,193	376,491	421,040	452,120	450,095
Retire TY GR CR and TC1	3,135	0	0	8,978	71,846	139,196	198,116	203,126	234,947	270,191	294,254	294,157	282,268	277,385	312,710	351,646	377,168	374,144	357,193	340,662	332,407	373,842	421,323	452,693
Retire TY GR CR and GH4	3,222	0	0	10,381	83,075	160,952	227,537	228,452	223,133	244,185	267,963	283,527	287,414	321,229	358,552	382,896	379,609	362,839	346,479	338,193	376,491	421,040	452,120	450,095
Retire TY GR CR and MC3	3,135	0	0	8,978	71,846	139,196	198,116	203,125	234,947	270,191	294,254	294,157	282,268	277,385	312,710	351,646	377,168	374,144	357,193	340,662	332,407	373,842	421,323	452,693

AESC Gas Prices (Nominal $) and Low CO2 Prices

Discount Rate: 6.71%

	$M NPVRR	$000 2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Retire TY GR CR and GH2	3,222	0	0	10,381	83,075	160,952	227,537	228,452	223,133	244,185	267,963	283,527	287,414	321,229	358,552	382,896	379,609	362,839	346,479	338,193	376,491	421,040	452,120	450,095
Retire TY GR CR and MC1-2	3,324	0	0	10,381	83,075	160,952	227,537	234,182	264,698	298,725	321,651	320,490	307,569	301,655	335,949	373,854	398,345	394,289	376,308	358,746	341,562	335,061	379,562	428,105
Retire TY GR CR BR1-2 and MC1-2	3,575	0	0	10,381	83,075	160,952	233,126	273,184	305,512	327,089	325,237	312,197	306,242	339,515	376,310	400,019	395,877	378,149	368,347	404,039	443,815	470,662	467,459	448,500
New Unit Capital Delta																								
No Retirements																								
Retire TY	42	0	0	5,191	36,217	37,900	36,222	-8,103	-7,615	-7,173	-6,771	-6,405	-6,184	-6,090	-5,995	-5,901	-5,806	-5,712	-5,617	-5,523	-5,429	-4,219	-3,037	-2,998
Retire TY and GR3	62	0	0	0	0	0	0	0	0	0	6,170	43,051	45,051	31,309	3,958	-9,153	-1,465	41,790	44,551	28,881	-2,725	-17,817	-17,085	-18,709
Retire TY GR3 and BR3	353	0	0	0	0	0	0	5,730	45,850	88,831	113,955	77,428	25,813	-6,211	28,482	79,718	109,994	68,423	9,039	-35,481	-40,983	16,259	77,154	115,327
Retire TY GR3 and CR4	224	0	0	-1,403	-11,229	-21,756	-28,014	1,935	33,822	57,303	57,013	17,392	12,877	24,335	49,612	60,747	51,083	5,852	1,116	14,810	44,439	57,254	53,943	44,483
Retire TY GR3 CR4 and CR6	129	0	0	1,403	11,229	21,756	28,014	3,795	12,028	31,528	56,942	60,036	12,936	-30,546	-21,130	18,970	58,911	62,571	7,923	-50,291	-85,423	-40,995	23,211	70,844
Retire TY GR3 CR4 CR6 and BR1-2	324	0	0	0	0	5,453	43,641	78,821	68,487	31,863	-4,504	-9,587	35,610	77,237	65,887	23,756	-18,216	-31,241	-22,464	31,341	80,777	67,130	17,082	-31,423
Retire TY GR3 and CR	187	0	0	0	0	0	5,590	39,002	40,814	28,364	3,586	-8,293	-1,327	37,860	40,361	26,165	-2,468	-16,141	-9,993	29,029	62,845	37,882	-14,752	-54,267
Retire TY GR3 CR and GH3	459	0	0	3,787	30,308	58,720	73,817	44,819	39,484	48,650	70,360	79,364	69,615	27,645	22,362	33,775	59,625	70,515	61,584	19,779	-16,820	6,186	57,689	96,074
Retire TY GR3 CR and GH1	454	0	0	5,191	41,538	80,476	103,238	70,146	23,385	-5,627	25,804	72,220	99,649	61,988	8,189	-25,163	11,579	65,702	99,836	70,686	23,834	-10,414	-13,511	23,083
Retire TY GR and CR	137	0	0	0	0	5,453	38,051	39,819	27,673	3,499	-8,090	-1,295	36,937	39,377	25,526	-2,408	-15,747	-15,101	-12,471	2,312	17,931	29,248	31,833	22,843
Retire TY GR CR and MC4	427	0	0	5,191	41,538	75,023	65,187	30,328	-2	19,146	52,159	70,028	37,825	32,114	42,677	67,433	77,813	74,311	63,341	14,998	9,332	24,136	56,653	70,632
Retire TY GR CR and TC1	340	0	0	3,787	30,308	53,267	35,766	5,001	11,811	45,152	78,450	80,658	32,679	-11,731	-3,165	36,183	75,372	85,615	74,055	17,467	-34,752	-23,062	25,856	73,230
Retire TY GR CR and GH4	427	0	0	5,191	41,538	75,023	65,187	30,328	-2	19,146	52,159	70,028	37,825	32,114	42,677	67,433	77,813	74,311	63,341	14,998	9,332	24,136	56,653	70,632
Retire TY GR CR and MC3	340	0	0	3,787	30,308	53,267	35,766	5,001	11,811	45,152	78,450	80,658	32,679	-11,731	-3,165	36,183	75,372	85,615	74,055	17,467	-34,752	-23,062	25,856	73,230
Retire TY GR CR and GH2	427	0	0	5,191	41,538	75,023	65,187	30,328	-2	19,146	52,159	70,028	37,825	32,114	42,677	67,433	77,813	74,311	63,341	14,998	9,332	24,136	56,654	70,632
Retire TY GR CR and MC1-2	529	0	0	5,191	41,538	75,023	65,187	36,057	41,563	73,686	105,848	106,991	57,980	12,539	20,074	58,391	96,549	105,761	93,170	35,551	-25,597	-61,843	-15,905	48,642
Retire TY GR CR BR1-2 and MC1-2	780	0	0	5,191	41,538	75,023	70,776	75,059	82,377	102,050	109,434	98,698	56,653	50,399	60,435	84,556	94,081	89,620	85,209	80,843	76,656	73,758	71,992	69,037
New Controls Capital																								
No Retirements	3,614	5,931	66,348	200,982	360,111	446,379	457,561	434,784	413,355	392,884	372,657	352,470	332,282	312,094	291,915	274,128	260,867	250,426	240,933	231,711	204,492	180,312	173,301	146,775
Retire TY	3,568	5,931	65,025	196,834	354,404	440,980	452,440	429,914	408,714	388,467	368,466	348,504	328,541	308,579	288,624	270,993	257,818	247,462	238,055	228,918	201,786	177,691	170,765	144,325
Retire TY and GR3	3,522	5,931	63,702	192,687	348,698	435,581	447,318	425,044	404,073	384,051	364,275	344,538	324,801	305,063	285,334	267,858	254,769	244,499	235,177	226,126	199,079	175,070	168,230	141,875
Retire TY GR3 and BR3	3,412	5,931	63,498	189,833	341,102	422,143	433,198	411,641	391,316	371,880	352,680	333,519	314,358	295,197	276,044	259,143	246,444	236,376	227,257	218,409	191,565	167,758	161,121	134,969
Retire TY GR3 and CR4	3,217	4,867	56,370	169,126	304,277	393,642	407,665	387,508	368,506	350,431	332,602	314,811	297,020	279,229	261,447	245,466	233,421	224,196	215,918	207,912	181,909	175,070	168,230	141,875
Retire TY GR3 CR4 and CR6	2,805	2,833	45,919	136,980	246,527	339,098	356,062	338,616	322,129	306,536	291,188	275,880	260,571	245,262	229,961	215,853	205,070	197,107	190,092	183,348	158,607	153,030	147,452	141,875
Retire TY GR3 CR4 CR6 and BR1-2	2,572	2,344	39,413	121,375	219,952	311,354	329,736	313,572	298,249	283,801	269,599	255,435	241,272	227,108	212,953	199,628	189,267	181,725	175,132	168,810	144,491	139,535	134,179	129,024
Retire TY GR3 and CR	2,484	1,786	38,065	111,787	198,784	294,032	313,468	298,316	283,969	270,491	257,258	244,064	230,871	217,677	204,491	192,024	182,408	175,611	169,763	164,185	158,607	153,030	147,452	141,875
Retire TY GR3 CR and GH3	2,301	1,671	37,500	106,638	188,044	273,909	289,887	275,771	262,450	249,916	237,588	225,298	213,009	200,719	188,437	176,850	168,092	161,891	156,372	151,118	145,864	140,610	135,356	130,102
Retire TY GR3 CR and GH1	2,312	1,600	33,171	100,624	179,084	272,757	293,301	279,160	265,739	253,174	240,854	228,573	216,291	204,010	191,737	179,921	170,696	164,290	158,833	153,646	148,460	143,273	138,086	132,900
Retire TY GR and CR	2,417	1,786	36,180	105,877	190,031	285,759	305,631	290,878	276,898	263,781	250,910	238,078	225,246	212,414	199,589	187,384	177,930	171,296	165,611	160,196	154,781	149,366	143,951	138,537
Retire TY GR CR and MC4	2,000	924	23,470	79,204	152,023	234,493	256,199	243,819	232,033	221,025	210,258	199,530	188,801	178,073	167,344	157,227	149,316	143,650	138,903	134,426	129,949	125,472	120,995	116,518
Retire TY GR CR and TC1	2,300	1,786	36,180	103,677	184,286	273,792	289,798	275,655	262,395	249,943	237,710	225,514	213,319	201,123	188,935	177,366	168,549	162,378	156,974	151,833	146,692	141,551	136,410	131,270
Retire TY GR CR and GH4	2,243	1,664	35,653	102,060	180,415	268,840	282,440	268,854	255,934	243,789	231,814	219,842	207,870	195,898	183,934	172,589	163,972	158,150	153,030	147,934	142,838	137,741	132,645	127,549
Retire TY GR CR and MC3	2,187	1,786	34,801	96,487	172,591	260,220	276,113	262,568	249,930	238,075	226,434	214,829	203,225	191,620	180,024	169,022	160,649	154,790	149,666	144,802	139,938	135,073	130,209	125,345
Retire TY GR CR and GH2	2,256	1,775	32,669	97,613	174,080	266,570	287,212	273,287	260,063	247,668	235,517	223,405	211,293	199,182	187,078	175,581	166,604	160,218	154,770	149,593	144,416	139,239	134,062	128,884
Retire TY GR CR and MC1-2	1,750	1,786	28,974	80,967	145,665	202,060	215,466	205,484	195,876	186,786	177,886	169,025	160,164	151,302	142,449	134,214	127,668	122,876	119,033	115,461	111,889	108,316	104,744	101,172
Retire TY GR CR BR1-2 and MC1-2	1,518	1,297	22,468	65,362	119,090	174,317	189,141	180,440	171,996	164,052	156,297	148,581	140,865	133,149	125,440	117,989	111,864	107,495	104,073	100,923	97,772	94,622	91,471	88,321
New Controls Capital Delta																								
No Retirements																								
Retire TY	-46	0	-1,323	-4,148	-5,707	-5,399	-5,121	-4,870	-4,641	-4,416	-4,191	-3,966	-3,741	-3,516	-3,290	-3,135	-3,049	-2,964	-2,878	-2,792	-2,707	-2,621	-2,536	-2,450
Retire TY and GR3	-46	0	-1,323	-4,148	-5,707	-5,399	-5,121	-4,870	-4,641	-4,416	-4,191	-3,966	-3,741	-3,516	-3,290	-3,135	-3,049	-2,964	-2,878	-2,792	-2,707	-2,621	-2,536	-2,450
Retire TY GR3 and BR3	-110	0	-204	-2,854	-7,595	-13,437	-14,120	-13,404	-12,757	-12,171	-11,595	-11,019	-10,443	-9,867	-9,290	-8,714	-8,325	-8,122	-7,920	-7,717	-7,514	-7,311	-7,109	-6,906
Retire TY GR3 and CR4	-304	-1,064	-7,332	-23,561	-44,421	-41,939	-39,653	-37,537	-35,567	-33,620	-31,674	-29,727	-27,780	-25,834	-23,887	-22,392	-21,347	-20,303	-19,258	-18,214	-17,169	0	0	0
Retire TY GR3 CR4 and CR6	-412	-2,034	-10,451	-32,146	-57,750	-54,544	-51,603	-48,892	-46,378	-43,896	-41,413	-38,931	-36,449	-33,967	-31,485	-29,613	-28,351	-27,089	-25,826	-24,564	-23,302	-22,040	-20,777	0
Retire TY GR3 CR4 CR6 and BR1-2	-232	-489	-6,506	-15,605	-26,575	-27,743	-26,326	-25,044	-23,880	-22,735	-21,590	-20,444	-19,299	-18,154	-17,009	-16,225	-15,803	-15,382	-14,960	-14,538	-14,116	-13,695	-13,273	-12,851
Retire TY GR3 and CR	-320	-1,047	-7,854	-25,193	-47,744	-45,066	-42,594	-40,300	-38,160	-36,045	-33,930	-31,815	-29,700	-27,585	-25,470	-23,829	-22,663	-21,496	-20,329	-19,163	0	0	0	0
Retire TY GR3 CR and GH3	-184	-115	-565	-5,149	-10,740	-20,123	-23,581	-22,544	-21,518	-20,575	-19,670	-18,766	-17,862	-16,958	-16,054	-15,173	-14,316	-13,720	-13,391	-13,067	-12,743	-12,420	-12,096	-11,772
Retire TY GR3 CR and GH1	-172	-186	-4,894	-11,163	-19,700	-21,275	-20,167	-19,156	-18,230	-17,317	-16,404	-15,492	-14,579	-13,667	-12,754	-12,103	-11,712	-11,321	-10,930	-10,539	-10,148	-9,757	-9,366	-8,975
Retire TY GR and CR	-68	0	-1,885	-5,910	-8,752	-8,273	-7,837	-7,438	-7,071	-6,709	-6,348	-5,986	-5,625	-5,264	-4,902	-4,640	-4,477	-4,315	-4,152	-3,989	-3,826	-3,664	-3,501	-3,338
Retire TY GR CR and MC4	-417	-862	-12,710	-26,673	-38,008	-51,266	-49,432	-47,059	-44,864	-42,756	-40,652	-38,548	-36,445	-34,341	-32,245	-30,157	-28,614	-27,646	-26,708	-25,770	-24,832	-23,894	-22,956	-22,018
Retire TY GR CR and TC1	-117	0	0	-2,200	-5,745	-11,967	-15,834	-15,223	-14,502	-13,838	-13,200	-12,564	-11,927	-11,291	-10,654	-10,018	-9,381	-8,918	-8,637	-8,363	-8,089	-7,815	-7,541	-7,267
Retire TY GR CR and GH4	-174	-122	-527	-3,817	-9,616	-16,919	-23,191	-22,024	-20,963	-19,992	-19,096	-18,236	-17,376	-16,516	-15,655	-14,795	-13,959	-13,146	-12,581	-12,262	-11,944	-11,625	-11,307	-10,988
Retire TY GR CR and MC3	-230	0	-1,379	-9,390	-17,441	-25,539	-29,519	-28,309	-26,968	-25,706	-24,477	-23,249	-22,021	-20,793	-19,566	-18,361	-17,281	-16,506	-15,945	-15,394	-14,844	-14,293	-13,742	-13,192
Retire TY GR CR and GH2	-160	-11	-3,511	-8,264	-15,951	-19,189	-18,419	-17,591	-16,835	-16,113	-15,393	-14,673	-13,952	-13,232	-12,512	-11,803	-11,326	-11,079	-10,841	-10,603	-10,365	-10,128	-9,890	-9,652
Retire TY GR CR and MC1-2	-666	0	-7,206	-24,910	-44,366	-83,699	-90,165	-85,393	-81,022	-76,995	-73,024	-69,053	-65,082	-61,111	-57,140	-53,169	-50,263	-48,420	-46,578	-44,735	-42,892	-41,050	-39,207	-37,365
Retire TY GR CR BR1-2 and MC1-2	-899	-489	-13,712	-40,515	-70,941	-111,442	-116,490	-110,438	-104,902	-99,730	-94,613	-89,497	-84,381	-79,265	-74,149	-69,394	-66,066	-63,802	-61,537	-59,273	-57,009	-54,745	-52,480	-50,216
MTP Capital																								
No Retirements	883	4,778	11,562	18,173	24,637	30,976	37,210	43,345	49,380	55,311	61,136	66,853	72,459	77,965	83,446	88,957	94,500	100,076	105,685	111,329	116,849	122,412	128,018	133,669
Retire TY	866	4,778	11,562	18,173	24,637	30,976	36,456	42,467	48,381	54,193	59,902	65,506	71,000	76,398	81,768	87,170	92,602	98,068	103,567	109,099	114,506	119,959	125,453	130,991
Retire TY and GR3	860	4,778	11,562	18,173	24,637	30,976	36,146	42,107	47,971	53,735	59,396	64,953	70,402	75,754	81,080	86,435	91,823	97,242	102,695	108,182	113,544	118,948	124,395	129,886
Retire TY GR3 and BR3	813	4,778	11,562	18,173	24,637	30,976	34,004	39,614	45,133	50,558	55,888	61,119	66,249	71,285	76,291	81,325	86,388	91,480	96,603	101,756	106,783	111,846	116,953	122,099
Retire TY GR3 and CR4	846	4,778	11,562	18,173	24,637	30,976	35,468	41,317	47,072	52,729	58,287	63,743	69,094	74,350	79,579	84,839	90,132	95,457	100,815	106,208	111,521	116,875	122,270	127,708
Retire TY GR3 CR4 and CR6	824	4,778	11,562	18,173	24,637	30,976	34,418	40,094	45,680	51,172	56,569	61,869	67,068	72,175	77,255	82,368	87,513	92,692	97,904	103,152	108,389	113,664	118,979	124,335
Retire TY GR3 CR4 CR6 and BR1-2	794	4,778	11,562	18,173	24,637	30,976	33,038	38,488	43,851	49,126	54,309	59,399	64,393	69,295	74,170	79,076	84,012	88,979	93,980	99,013	104,033	109,090	114,185	119,318
Retire TY GR3 and CR	809	4,778	11,562	18,173	24,637	30,976	33,683	39,238	44,705	50,082	55,367	60,557	65,650	70,652	75,629	80,638	85,680	90,756	95,867	101,013	106,196	111,417	116,676	121,974
Retire TY GR3 CR and GH3	724	4,778	11,562	18,173	24,637	30,976	29,800	34,714	39,550	44,305	48,978	53,566	58,067	62,487	66,885	71,310	75,763	80,245	84,756	89,297	93,869	98,473	103,109	107,778
Retire TY GR3 CR and GH1	725	4,778	11,562	18,173	24,637	30,976	29,840	34,761	39,604	44,366	49,044	53,639	58,146	62,572	66,976	71,407	75,867	80,354	84,872	89,419	93,995	98,608	103,250	107,926
Retire TY GR and CR	800	4,778	11,562	18,173	24,637	30,976	33,251	38,735	44,133	49,442	54,660	59,785	64,814	69,754	74,667	79,612	84,591	89,603	94,649	99,731	104,849	110,005	115,198	120,431
Retire TY GR CR and MC4	715	4,778	11,562	18,173	24,637	30,976	29,320	34,154	38,913	43,595	48,199	52,721	57,160	61,522	65,864	70,237	74,641	79,077	83,546	88,049	92,586	97,159	101,768	106,415
Retire TY GR CR and TC1	781	4,778	11,562	18,173	24,637	30,976	32,396	37,740	42,998	48,170	53,253	58,245	63,144	67,955	72,740	77,556	82,403	87,283	92,196	97,143	102,125	107,142	112,196	117,287

AESC Gas Prices (Nominal $) and Low CO2 Prices

Discount Rate: 6.71%

	$M NPVRR	$000 2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Retire TY GR CR and GH4	715	4,778	11,562	18,173	24,637	30,976	29,376	34,221	38,988	43,677	48,284	52,806	57,247	61,606	65,941	70,304	74,695	79,114	83,562	88,039	92,548	97,088	101,660	106,265
Retire TY GR CR and MC3	731	4,778	11,562	18,173	24,637	30,976	30,029	34,980	39,854	44,649	49,363	53,994	58,540	63,006	67,451	71,927	76,435	80,975	85,548	90,155	94,797	99,475	104,190	108,942
Retire TY GR CR and GH2	714	4,778	11,562	18,173	24,637	30,976	29,335	34,174	38,935	43,617	48,218	52,735	57,168	61,521	65,850	70,207	74,591	79,004	83,446	87,917	92,420	96,953	101,519	106,117
Retire TY GR CR and MC1-2	693	4,778	11,562	18,173	24,637	30,976	28,274	32,935	37,524	42,039	46,478	50,840	55,122	59,331	63,521	67,741	71,992	76,274	80,590	84,938	89,321	93,739	98,192	102,683
Retire TY GR CR BR1-2 and MC1-2	663	4,778	11,562	18,173	24,637	30,976	26,893	31,328	-35,695	39,992	44,218	48,370	52,447	56,451	60,436	64,448	68,490	72,562	76,665	80,799	84,965	89,165	93,398	97,666
MTP Capital Delta																								
No Retirements																								
Retire TY	-16	0	0	0	0	0	-754	-878	-999	-1,118	-1,234	-1,347	-1,458	-1,568	-1,677	-1,787	-1,898	-2,008	-2,119	-2,230	-2,341	-2,453	-2,565	-2,678
Retire TY and GR3	-7	0	0	0	0	0	-309	-360	-410	-458	-506	-553	-598	-643	-689	-734	-780	-825	-871	-918	-964	-1,011	-1,057	-1,104
Retire TY GR3 and BR3	-47	0	0	0	0	0	-2,143	-2,493	-2,838	-3,176	-3,508	-3,834	-4,153	-4,469	-4,789	-5,111	-5,435	-5,762	-6,092	-6,425	-6,761	-7,100	-7,442	-7,787
Retire TY GR3 and CR4	-14	0	0	0	0	0	-678	-790	-899	-1,006	-1,109	-1,210	-1,308	-1,405	-1,501	-1,596	-1,691	-1,786	-1,880	-1,974	-2,023	-2,073	-2,125	-2,178
Retire TY GR3 CR4 and CR6	-21	0	0	0	0	0	-1,050	-1,223	-1,392	-1,557	-1,718	-1,874	-2,026	-2,175	-2,324	-2,471	-2,619	-2,765	-2,911	-3,056	-3,132	-3,210	-3,291	-3,373
Retire TY GR3 CR4 CR6 and BR1-2	-30	0	0	0	0	0	-1,380	-1,606	-1,828	-2,046	-2,260	-2,470	-2,675	-2,879	-3,085	-3,292	-3,501	-3,712	-3,925	-4,139	-4,356	-4,574	-4,794	-5,017
Retire TY GR3 and CR	-15	0	0	0	0	0	-735	-856	-975	-1,090	-1,202	-1,312	-1,418	-1,522	-1,626	-1,730	-1,833	-1,936	-2,038	-2,139	-2,193	-2,247	-2,304	-2,361
Retire TY GR3 CR and GH3	-85	0	0	0	0	0	-3,883	-4,524	-5,155	-5,777	-6,389	-6,991	-7,583	-8,165	-8,744	-9,328	-9,917	-10,511	-11,111	-11,716	-12,327	-12,944	-13,567	-14,196
Retire TY GR3 CR and GH1	-84	0	0	0	0	0	-3,843	-4,477	-5,101	-5,717	-6,322	-6,918	-7,504	-8,080	-8,653	-9,231	-9,814	-10,402	-10,995	-11,594	-12,199	-12,809	-13,425	-14,048
Retire TY GR and CR	-9	0	0	0	0	0	-432	-503	-572	-640	-707	-772	-836	-899	-962	-1,026	-1,089	-1,153	-1,217	-1,282	-1,347	-1,412	-1,477	-1,543
Retire TY GR CR and MC4	-85	0	0	0	0	0	-3,931	-4,581	-5,219	-5,846	-6,461	-7,064	-7,654	-8,231	-8,803	-9,376	-9,950	-10,526	-11,103	-11,683	-12,263	-12,846	-13,430	-14,016
Retire TY GR CR and TC1	-19	0	0	0	0	0	-855	-996	-1,135	-1,272	-1,407	-1,539	-1,670	-1,799	-1,927	-2,057	-2,188	-2,320	-2,453	-2,588	-2,725	-2,863	-3,002	-3,144
Retire TY GR CR and GH4	-85	0	0	0	0	0	-3,875	-4,514	-5,144	-5,765	-6,376	-6,977	-7,567	-8,148	-8,726	-9,308	-9,896	-10,489	-11,088	-11,692	-12,302	-12,917	-13,538	-14,166
Retire TY GR CR and MC3	-69	0	0	0	0	0	-3,222	-3,755	-4,278	-4,792	-5,296	-5,790	-6,274	-6,747	-7,216	-7,685	-8,156	-8,628	-9,102	-9,576	-10,052	-10,530	-11,009	-11,489
Retire TY GR CR and GH2	-86	0	0	0	0	0	-3,916	-4,562	-5,198	-5,825	-6,442	-7,049	-7,646	-8,233	-8,817	-9,405	-9,999	-10,599	-11,204	-11,814	-12,430	-13,052	-13,680	-14,314
Retire TY GR CR and MC1-2	-107	0	0	0	0	0	-4,977	-5,800	-6,609	-7,403	-8,182	-8,945	-9,692	-10,423	-11,146	-11,872	-12,599	-13,328	-14,060	-14,793	-15,529	-16,266	-17,006	-17,748
Retire TY GR CR BR1-2 and MC1-2	-137	0	0	0	0	0	-6,358	-7,407	-8,437	-9,449	-10,442	-11,415	-12,367	-13,302	-14,231	-15,164	-16,101	-17,041	-17,985	-18,932	-19,884	-20,840	-21,800	-22,765
Landfill Capital																								
No Retirements	651	936	3,049	4,085	3,979	4,416	39,767	41,494	43,787	48,239	54,623	57,334	57,530	61,040	65,618	72,663	80,567	85,321	86,158	95,531	104,979	105,473	112,416	114,016
Retire TY	651	936	3,049	4,083	3,979	4,416	39,767	41,494	43,787	48,239	54,623	57,334	57,530	61,040	65,618	72,663	80,567	85,321	86,158	95,531	104,979	105,473	112,416	114,016
Retire TY and GR3	651	936	3,049	4,083	3,979	4,416	39,767	41,494	43,787	48,239	54,623	57,334	57,530	61,040	65,618	72,663	80,567	85,321	86,158	95,531	104,979	105,473	112,416	114,016
Retire TY GR3 and BR3	623	936	3,049	4,083	3,979	4,416	37,951	39,624	41,357	45,703	51,388	54,092	54,278	56,779	61,276	67,072	75,058	79,889	80,799	90,239	99,761	100,853	110,728	112,431
Retire TY GR3 and CR4	630	678	2,210	2,959	2,884	3,200	37,807	39,545	42,143	46,312	52,051	54,774	55,433	58,982	63,545	71,132	78,799	83,511	84,290	93,598	102,979	103,615	110,606	112,258
Retire TY GR3 CR4 and CR6	583	279	910	1,219	1,187	1,318	32,565	34,392	37,577	41,413	46,252	49,092	50,567	54,270	58,909	67,432	74,830	79,551	80,290	89,551	98,876	99,779	106,902	108,636
Retire TY GR3 CR4 CR6 and BR1-2	565	279	910	1,219	1,187	1,318	31,416	33,185	36,012	39,779	44,168	47,004	48,472	51,524	56,111	63,830	71,281	76,052	76,837	86,142	95,516	96,803	105,815	107,615
Retire TY GR3 and CR	560	0	0	0	0	0	30,461	32,280	35,795	39,324	43,464	46,318	48,295	52,038	56,662	65,772	72,914	77,589	78,264	87,457	96,710	97,763	104,940	106,709
Retire TY GR3 CR and GH3	457	0	0	0	0	0	24,782	26,229	29,160	31,876	35,294	37,464	38,979	42,229	45,758	53,132	58,483	61,987	62,495	71,013	79,672	80,248	86,896	87,966
Retire TY GR3 CR and GH1	458	0	0	0	0	0	24,841	26,292	29,229	31,953	35,379	37,557	39,076	42,331	45,872	53,264	58,633	62,150	62,660	71,184	79,849	80,431	87,084	88,161
Retire TY GR and CR	560	0	0	0	0	0	30,461	32,280	35,795	39,324	43,464	46,318	48,295	52,038	56,662	65,772	72,914	77,589	78,264	87,457	96,710	97,763	104,940	106,709
Retire TY GR CR and MC4	560	0	0	0	0	0	30,461	32,280	35,795	39,324	43,464	46,318	48,295	52,038	56,662	65,772	72,914	77,589	78,264	87,457	96,710	97,763	104,940	106,709
Retire TY GR CR and TC1	518	0	0	0	0	0	28,496	30,215	33,623	37,108	41,204	44,013	45,943	49,639	54,215	63,277	70,369	74,993	75,616	82,094	88,471	89,469	92,586	94,706
Retire TY GR CR and GH4	457	0	0	0	0	0	24,794	26,242	29,174	31,891	35,311	37,483	38,998	42,249	45,781	53,159	58,513	62,020	62,528	71,047	79,707	80,285	86,934	88,005
Retire TY GR CR and MC3	560	0	0	0	0	0	30,461	32,280	35,795	39,324	43,464	46,318	48,295	52,038	56,662	65,772	72,914	77,589	78,264	87,457	96,710	97,763	104,940	106,709
Retire TY GR CR and GH2	456	0	0	0	0	0	24,734	26,179	29,104	31,814	35,226	37,391	38,901	42,147	45,667	53,027	58,363	61,857	62,364	70,876	79,530	80,102	86,746	87,810
Retire TY GR CR and MC1-2	560	0	0	0	0	0	30,461	32,280	35,795	39,324	43,464	46,318	48,295	52,038	56,662	65,772	72,914	77,589	78,264	87,457	96,710	97,763	104,940	106,709
Retire TY GR CR BR1-2 and MC1-2	541	0	0	0	0	0	29,292	31,075	34,230	37,690	41,380	44,230	46,200	49,293	53,864	62,170	69,365	74,090	74,812	84,048	93,348	94,787	103,853	105,688
Landfill Capital Delta																								
No Retirements																								
Retire TY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and GR3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and BR3	-29	0	0	0	0	0	-1,816	-1,870	-2,430	-2,536	-3,235	-3,242	-3,252	-4,261	-4,342	-5,591	-5,508	-5,431	-5,359	-5,291	-5,219	-4,620	-1,688	-1,585
Retire TY GR3 and CR4	-22	-258	-840	-1,124	-1,095	-1,216	-1,960	-1,949	-1,644	-1,927	-2,572	-2,560	-2,096	-2,059	-2,073	-1,531	-1,768	-1,810	-1,869	-1,932	-2,000	-1,861	-1,810	-1,778
Retire TY GR3 CR4 and CR6	-46	-399	-1,300	-1,741	-1,696	-1,882	-5,221	-5,152	-4,566	-4,899	-5,799	-5,682	-4,867	-4,712	-4,637	-3,700	-3,969	-3,960	-4,000	-4,047	-4,101	-3,833	-3,704	-3,602
Retire TY GR3 CR4 CR6 and BR1-2	-18	0	0	0	0	0	-1,170	-1,205	-1,565	-1,634	-2,084	-2,089	-2,095	-2,745	-2,797	-3,602	-3,549	-3,499	-3,452	-3,409	-3,362	-2,976	-1,088	-1,021
Retire TY GR3 and CR	-24	-279	-910	-1,219	-1,187	-1,318	-2,124	-2,112	-1,782	-2,089	-2,788	-2,774	-2,272	-2,232	-2,247	-1,659	-1,916	-1,962	-2,025	-2,094	-2,168	-2,017	-1,962	-1,927
Retire TY GR3 CR and GH3	-103	0	0	0	0	0	-5,680	-6,051	-6,635	-7,448	-8,170	-8,854	-9,316	-9,809	-10,904	-12,640	-14,431	-15,602	-15,769	-16,444	-17,038	-17,514	-18,044	-18,743
Retire TY GR3 CR and GH1	-102	0	0	0	0	0	-5,620	-5,988	-6,566	-7,371	-8,085	-8,761	-9,219	-9,707	-10,790	-12,508	-14,281	-15,439	-15,604	-16,273	-16,860	-17,332	-17,856	-18,548
Retire TY GR and CR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and TC1	-42	0	0	0	0	0	-1,965	-2,066	-2,172	-2,216	-2,260	-2,305	-2,351	-2,398	-2,446	-2,495	-2,545	-2,596	-2,648	-5,363	-8,239	-8,294	-12,354	-12,003
Retire TY GR CR and GH4	-103	0	0	0	0	0	-5,668	-6,038	-6,622	-7,433	-8,153	-8,835	-9,297	-9,789	-10,881	-12,614	-14,401	-15,569	-15,736	-16,410	-17,002	-17,478	-18,007	-18,704
Retire TY GR CR and MC3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH2	-104	0	0	0	0	0	-5,727	-6,101	-6,691	-7,510	-8,238	-8,927	-9,394	-9,891	-10,994	-12,745	-14,551	-15,732	-15,900	-16,581	-17,180	-17,660	-18,195	-18,899
Retire TY GR CR and MC1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR BR1-2 and MC1-2	-18	0	0	0	0	0	-1,170	-1,205	-1,565	-1,634	-2,084	-2,089	-2,095	-2,745	-2,797	-3,602	-3,549	-3,499	-3,452	-3,409	-3,362	-2,976	-1,088	-1,021
Water Capital																								
No Retirements	235	0	0	0	22,976	32,582	30,878	29,324	27,901	26,592	25,321	24,050	22,779	21,508	20,237	18,966	17,849	17,096	16,551	16,007	15,462	14,918	14,373	11,813
Retire TY	229	0	0	0	22,390	31,745	30,086	28,573	27,188	25,913	24,676	23,439	22,201	20,964	19,727	18,490	17,397	16,658	16,128	15,598	15,067	14,537	14,007	11,461
Retire TY and GR3	223	0	0	0	21,804	30,908	29,294	27,823	26,475	25,234	24,031	22,827	21,624	20,420	19,217	18,014	16,945	16,221	15,705	15,189	14,673	14,157	13,641	11,110
Retire TY GR3 and BR3	200	0	0	0	19,525	27,848	26,398	25,073	23,858	22,739	21,654	20,569	19,484	18,399	17,315	16,230	15,242	14,561	14,088	13,615	13,142	12,669	12,196	9,707
Retire TY GR3 and CR4	213	0	0	0	20,824	29,326	27,800	26,409	25,136	23,965	22,830	21,695	20,560	19,425	18,290	17,155	16,139	15,450	14,970	14,490	14,010	13,530	13,050	11,110
Retire TY GR3 CR4 and CR6	197	0	0	0	19,306	26,877	25,487	24,221	23,063	21,999	20,970	19,941	18,912	17,884	16,855	15,826	14,890	14,257	13,833	13,408	12,984	12,560	12,135	11,110
Retire TY GR3 CR4 CR6 and BR1-2	182	0	0	0	17,838	24,906	23,621	22,450	21,377	20,391	19,439	18,486	17,534	16,582	15,629	14,677	13,793	13,188	12,791	12,394	11,998	11,601	11,204	10,206
Retire TY GR3 and CR	186	0	0	0	18,244	25,162	23,867	22,689	21,612	20,623	19,669	18,714	17,759	16,805	15,850	14,895	14,016	13,422	13,037	12,651	12,266	11,880	11,495	11,110
Retire TY GR3 CR and GH3	171	0	0	0	16,767	23,187	21,992	20,903	19,909	18,995	18,113	17,230	16,348	15,465	14,583	13,700	12,893	12,349	11,991	11,632	11,274	10,915	10,557	10,199
Retire TY GR3 CR and GH1	171	0	0	0	16,782	23,208	22,011	20,922	19,926	19,012	18,129	17,246	16,362	15,479	14,596	13,713	12,905	12,360	12,001	11,643	11,284	10,926	10,567	10,208
Retire TY GR and CR	177	0	0	0	17,425	23,993	22,761	21,640	20,616	19,675	18,768	17,860	16,953	16,045	15,138	14,230	13,385	12,811	12,445	12,080	11,715	11,349	10,984	10,618

AESC Gas Prices (Nominal $) and Low CO2 Prices

Discount Rate: 6.71%

	$M NPVRR	$000 2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Retire TY GR CR and MC4	157	0	0	0	15,512	21,201	20,113	19,124	18,221	17,394	16,595	15,796	14,998	14,199	13,401	12,602	11,866	11,371	11,056	10,741	10,426	10,111	9,796	9,481
Retire TY GR CR and TC1	170	0	0	0	16,655	22,985	21,804	20,728	19,745	18,842	17,971	17,100	16,228	15,357	14,486	13,615	12,806	12,256	11,903	11,550	11,198	10,845	10,492	10,140
Retire TY GR CR and GH4	163	0	0	0	15,951	22,022	20,889	19,858	18,916	18,050	17,215	16,380	15,544	14,709	13,873	13,038	12,264	11,740	11,401	11,063	10,725	10,386	10,048	9,709
Retire TY GR CR and MC3	161	0	0	0	15,857	21,704	20,590	19,578	18,653	17,805	16,987	16,169	15,350	14,532	13,714	12,896	12,140	11,631	11,307	10,983	10,659	10,334	10,010	9,686
Retire TY GR CR and GH2	162	0	0	0	15,936	22,002	20,870	19,840	18,898	18,034	17,199	16,364	15,529	14,695	13,860	13,025	12,253	11,729	11,391	11,052	10,714	10,376	10,038	9,700
Retire TY GR CR and MC1-2	152	0	0	0	15,003	20,457	19,408	18,454	17,584	16,786	16,017	15,247	14,477	13,708	12,938	12,168	11,461	10,988	10,686	10,385	10,083	9,782	9,480	9,179
Retire TY GR CR BR1-2 and MC1-2	137	0	0	0	13,535	18,486	17,542	16,683	15,898	15,178	14,485	13,792	13,099	12,406	11,713	11,019	10,364	9,918	9,645	9,371	9,097	8,823	8,549	8,275
Water Capital Delta																								
No Retirements																								
Retire TY	-6	0	0	0	-586	-837	-792	-751	-713	-679	-645	-611	-577	-544	-510	-476	-452	-438	-423	-409	-395	-380	-366	-352
Retire TY and GR3	-6	0	0	0	-586	-837	-792	-751	-713	-679	-645	-611	-577	-544	-510	-476	-452	-438	-423	-409	-395	-380	-366	-352
Retire TY GR3 and BR3	-23	0	0	0	-2,279	-3,060	-2,897	-2,749	-2,616	-2,496	-2,377	-2,258	-2,140	-2,021	-1,902	-1,784	-1,703	-1,660	-1,617	-1,574	-1,531	-1,488	-1,445	-1,402
Retire TY GR3 and CR4	-10	0	0	0	-980	-1,582	-1,494	-1,413	-1,339	-1,269	-1,201	-1,132	-1,064	-996	-927	-859	-806	-770	-735	-699	-663	-627	-591	0
Retire TY GR3 CR4 and CR6	-16	0	0	0	-1,518	-2,449	-2,313	-2,188	-2,073	-1,966	-1,860	-1,754	-1,647	-1,541	-1,435	-1,329	-1,249	-1,193	-1,137	-1,082	-1,026	-970	-915	0
Retire TY GR3 CR4 CR6 and BR1-2	-15	0	0	0	-1,468	-1,971	-1,866	-1,771	-1,686	-1,608	-1,531	-1,455	-1,378	-1,302	-1,226	-1,149	-1,097	-1,069	-1,042	-1,014	-986	-959	-931	-903
Retire TY GR3 and CR	-11	0	0	0	-1,062	-1,715	-1,619	-1,532	-1,451	-1,376	-1,302	-1,227	-1,153	-1,079	-1,005	-931	-874	-835	-796	-757	-718	-679	-640	0
Retire TY GR3 CR and GH3	-15	0	0	0	-1,477	-1,975	-1,876	-1,786	-1,703	-1,628	-1,556	-1,484	-1,411	-1,339	-1,267	-1,195	-1,123	-1,073	-1,046	-1,019	-992	-965	-938	-911
Retire TY GR3 CR and GH1	-15	0	0	0	-1,462	-1,954	-1,856	-1,767	-1,686	-1,611	-1,540	-1,468	-1,397	-1,325	-1,254	-1,183	-1,111	-1,062	-1,035	-1,008	-982	-955	-928	-901
Retire TY GR and CR	-8	0	0	0	-819	-1,169	-1,106	-1,049	-996	-948	-901	-854	-807	-759	-712	-665	-631	-611	-591	-571	-551	-531	-511	-491
Retire TY GR CR and MC4	-20	0	0	0	-1,913	-2,792	-2,648	-2,516	-2,394	-2,281	-2,172	-2,064	-1,955	-1,846	-1,737	-1,628	-1,519	-1,440	-1,389	-1,339	-1,288	-1,238	-1,187	-1,137
Retire TY GR CR and TC1	-8	0	0	0	-770	-1,008	-958	-912	-871	-833	-797	-760	-724	-688	-652	-616	-579	-555	-542	-529	-517	-504	-491	-479
Retire TY GR CR and GH4	-15	0	0	0	-1,474	-1,971	-1,872	-1,782	-1,700	-1,625	-1,553	-1,481	-1,409	-1,337	-1,265	-1,193	-1,121	-1,071	-1,044	-1,017	-990	-963	-936	-909
Retire TY GR CR and MC3	-16	0	0	0	-1,568	-2,289	-2,171	-2,063	-1,963	-1,870	-1,781	-1,692	-1,602	-1,513	-1,424	-1,335	-1,245	-1,180	-1,139	-1,097	-1,056	-1,015	-973	-932
Retire TY GR CR and GH2	-15	0	0	0	-1,489	-1,991	-1,891	-1,800	-1,718	-1,642	-1,569	-1,496	-1,423	-1,350	-1,278	-1,205	-1,132	-1,082	-1,055	-1,028	-1,000	-973	-946	-918
Retire TY GR CR and MC1-2	-25	0	0	0	-2,422	-3,536	-3,354	-3,186	-3,032	-2,889	-2,751	-2,613	-2,475	-2,337	-2,200	-2,062	-1,924	-1,823	-1,759	-1,695	-1,631	-1,567	-1,504	-1,440
Retire TY GR CR BR1-2 and MC1-2	-40	0	0	0	-3,890	-5,507	-5,220	-4,957	-4,717	-4,497	-4,282	-4,068	-3,854	-3,639	-3,425	-3,211	-3,021	-2,892	-2,801	-2,709	-2,618	-2,526	-2,434	-2,343
Total Capital																								
No Retirements	7,397	11,645	80,960	223,239	417,024	556,928	647,904	670,624	650,837	634,544	620,691	609,718	634,348	665,478	684,757	681,756	671,072	668,186	706,958	758,555	777,302	758,664	749,460	723,539
Retire TY	7,370	11,645	79,637	224,282	446,948	588,592	677,458	656,023	636,868	621,158	607,850	597,389	622,388	653,762	673,285	670,457	659,867	657,065	695,920	747,601	766,431	748,991	740,957	715,061
Retire TY and GR3	7,373	11,645	78,314	220,134	440,655	582,356	671,236	650,043	631,104	615,605	608,678	635,310	662,523	680,369	672,754	656,959	654,121	694,629	736,299	772,362	759,641	727,162	719,913	692,446
Retire TY GR3 and BR3	7,518	11,645	78,110	217,280	430,781	565,859	650,261	635,256	656,313	684,056	701,918	692,385	668,349	653,540	680,913	715,476	743,144	742,077	724,349	715,874	697,632	722,902	779,383	790,092
Retire TY GR3 and CR4	7,247	10,323	70,142	194,046	382,929	515,864	599,437	610,288	625,478	635,085	629,135	618,073	643,150	674,411	693,978	691,328	679,591	675,812	713,673	764,354	782,225	779,856	769,330	732,973
Retire TY GR3 CR4 and CR6	6,880	7,890	58,391	161,563	333,195	478,744	567,262	556,628	583,097	614,296	635,288	629,868	611,097	601,469	632,967	673,185	702,315	703,376	687,721	681,314	665,241	708,807	763,854	796,842
Retire TY GR3 CR4 CR6 and BR1-2	6,909	7,401	51,885	145,958	305,152	454,483	580,160	605,822	622,624	618,136	603,318	593,823	621,259	653,625	674,738	672,672	660,149	648,473	641,878	689,555	723,197	753,734	760,850	745,626
Retire TY GR3 and CR	6,697	6,564	49,627	135,151	283,202	430,646	525,779	550,829	581,543	602,060	599,652	584,447	575,227	606,911	642,980	671,200	672,561	661,007	652,540	686,190	723,007	741,746	744,197	738,287
Retire TY GR3 CR and GH3	6,769	6,449	49,062	133,790	301,294	467,268	564,576	560,744	586,015	615,283	634,227	627,716	608,669	598,285	628,373	666,639	692,400	690,616	672,807	663,723	663,086	704,089	757,241	788,739
Retire TY GR3 CR and GH1	6,777	6,377	44,734	129,178	303,578	487,893	597,530	589,588	573,346	564,419	593,104	624,027	642,176	636,120	617,718	611,013	647,223	688,485	713,811	717,461	706,652	690,479	689,110	718,898
Retire TY GR and CR	6,749	6,564	47,742	129,241	273,631	426,657	554,455	581,658	600,576	597,261	583,605	575,540	604,896	639,366	661,930	662,462	650,616	639,827	634,108	682,659	735,214	765,387	770,541	755,758
Retire TY GR CR and MC4	6,653	5,702	35,032	107,759	275,247	447,621	563,631	557,830	548,096	565,523	586,478	597,892	596,668	627,061	661,823	688,734	688,346	674,526	658,248	658,866	706,162	751,545	789,620	789,218
Retire TY GR CR and TC1	6,904	6,564	47,742	130,829	297,424	466,949	570,610	567,463	593,708	624,254	644,392	639,029	620,902	611,459	643,086	683,459	711,295	711,053	693,882	683,283	680,893	722,850	773,008	806,096
Retire TY GR CR and GH4	6,799	6,442	47,215	130,615	304,078	482,790	585,035	577,627	566,145	581,593	600,587	610,039	607,072	635,691	668,081	691,985	689,053	673,863	657,001	656,277	702,308	746,540	783,406	781,623
Retire TY GR CR and MC3	6,773	6,564	46,363	123,639	284,931	452,096	555,309	552,532	579,179	610,044	630,502	625,467	607,677	598,581	630,560	671,264	699,305	699,128	681,978	674,058	674,510	716,488	770,672	803,375
Retire TY GR CR and GH2	6,810	6,552	44,231	126,167	297,728	480,499	589,688	581,931	570,133	585,317	604,123	613,422	610,305	638,773	671,007	694,736	691,420	675,647	658,449	657,632	703,570	747,710	784,484	782,606
Retire TY GR CR and MC1-2	6,479	6,564	40,536	109,522	268,381	414,445	521,146	523,335	551,476	583,660	605,497	601,920	585,627	578,034	611,518	653,750	682,380	682,017	664,881	656,987	649,565	644,661	696,919	747,847
Retire TY GR CR BR1-2 and MC1-2	6,434	6,074	34,030	93,917	240,337	384,731	495,994	532,711	563,331	584,002	581,617	567,169	558,852	590,813	627,763	655,646	655,961	642,214	633,542	679,179	728,997	758,058	764,730	748,450
Total Capital Delta																								
No Retirements																								
Retire TY	-27	0	-1,323	1,043	29,924	31,664	29,554	-14,601	-13,969	-13,386	-12,841	-12,330	-11,960	-11,716	-11,473	-11,299	-11,205	-11,121	-11,038	-10,954	-10,871	-9,673	-8,504	-8,478
Retire TY and GR3	3	0	-1,323	-4,148	-6,293	-6,236	-6,222	-5,981	-5,764	-5,553	828	37,921	40,135	26,607	-531	-13,498	-5,746	37,564	40,378	24,762	-6,790	-21,829	-21,044	-22,615
Retire TY GR3 and BR3	145	0	-204	-2,854	-9,874	-16,498	-20,975	-14,787	25,208	68,451	93,239	57,075	5,826	-26,829	8,159	58,518	89,023	47,448	-11,949	-56,488	-62,009	-4,260	59,470	97,646
Retire TY GR3 and CR4	-126	-1,322	-8,171	-26,088	-57,726	-66,493	-71,799	-39,755	-5,627	19,481	20,457	-17,237	-19,372	-5,958	21,224	34,370	25,470	-18,817	-22,626	-8,008	22,584	52,693	49,417	40,527
Retire TY GR3 CR4 and CR6	-367	-2,432	-11,751	-32,483	-49,734	-37,120	-32,175	-53,661	-42,381	-20,789	6,153	11,795	-32,053	-72,942	-61,010	-18,144	22,724	27,564	-25,951	-83,040	-116,984	-71,048	-5,476	63,868
Retire TY GR3 CR4 CR6 and BR1-2	29	-489	-6,506	-15,605	-28,043	-24,261	12,899	49,194	39,528	3,840	-31,970	-36,045	10,162	52,156	41,771	-512	-42,166	-54,904	-45,843	8,241	57,956	44,927	-3,004	-51,216
Retire TY GR3 and CR	-183	-1,326	-8,764	-26,412	-49,993	-48,098	-41,483	-5,799	-1,554	-12,236	-35,636	-45,421	-35,870	5,442	10,013	-1,984	-29,754	-42,369	-35,181	4,876	57,766	32,939	-19,657	-58,555
Retire TY GR3 CR and GH3	72	-115	-565	-1,362	18,092	36,622	38,797	9,915	4,472	13,222	34,576	43,269	33,442	-8,626	-14,607	-4,561	19,839	29,609	20,267	-22,467	-59,921	-37,657	13,044	50,452
Retire TY GR3 CR and GH1	80	-186	-4,894	-5,973	20,376	57,247	71,751	38,759	-8,197	-37,642	-6,548	39,580	66,949	29,209	-25,263	-60,187	-25,338	27,478	61,271	31,271	-16,355	-51,267	-55,087	-19,389
Retire TY GR and CR	52	0	-1,885	-5,910	-9,571	-3,989	28,676	30,830	19,033	-4,800	-16,046	-8,907	29,669	32,455	18,950	-8,739	-21,945	-21,180	-18,432	-3,531	12,207	23,641	26,344	17,471
Retire TY GR CR and MC4	-95	-862	-12,710	-21,482	1,617	20,964	9,176	-23,829	-52,480	-31,737	2,873	22,352	-8,229	-12,304	-108	26,272	37,729	34,699	24,140	-23,794	-29,052	-13,842	19,080	33,460
Retire TY GR CR and TC1	155	0	0	1,588	23,793	40,292	16,155	-14,196	-6,869	26,994	60,787	63,490	16,006	-27,907	-18,844	20,998	60,679	71,226	59,775	623	-54,321	-42,537	2,467	50,338
Retire TY GR CR and GH4	50	-122	-527	1,374	30,448	56,133	30,581	-4,031	-34,431	-15,668	16,982	34,500	2,176	-3,675	6,151	29,523	38,437	34,036	22,893	-26,382	-32,906	-18,847	12,866	25,865
Retire TY GR CR and MC3	24	0	-1,379	-5,602	11,300	25,439	855	-29,126	-21,397	12,783	46,896	49,927	2,781	-40,785	-31,370	8,802	48,689	59,301	47,870	-8,601	-60,704	-48,899	132	47,618
Retire TY GR CR and GH2	61	-11	-3,511	-3,074	24,097	53,842	35,233	273	-30,443	-11,944	20,517	37,883	5,409	-593	9,076	32,274	40,804	35,820	24,342	-25,027	-31,644	-17,677	13,944	26,848
Retire TY GR CR and MC1-2	-270	0	-7,206	-19,719	-5,250	-12,212	-33,309	-58,323	-49,100	-13,600	21,891	26,380	-19,269	-61,332	-50,412	-8,712	31,764	42,189	30,773	-25,673	-85,649	-120,726	-73,621	-7,910
Retire TY GR CR BR1-2 and MC1-2	-315	-489	-13,712	-35,324	-33,293	-41,926	-58,461	-48,948	-37,245	-13,259	-1,988	-8,370	-46,044	-48,552	-34,167	-6,816	5,345	2,386	-566	-3,480	-6,217	-7,329	-5,811	-7,308
Retirement O&M Cost																								
No Retirements	0																							
Retire TY	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and GR3	3	0	0	0	0	0	4,200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and BR3	5	0	0	0	0	0	6,300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR4	5	0	0	0	0	0	6,300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 and CR6	6	0	0	0	0	0	8,400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 CR6 and BR1-2	9	0	0	0	0	0	12,600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR	8	0	0	0	0	0	10,500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH3	9	0	0	0	0	0	12,600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

10/17/2011

AESC Gas Prices (Nominal $) and Low CO2 Prices

Discount Rate: 6.71%

	$M NPVRR	$000 2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Retire TY GR3 CR and GH1	9	0	0	0	0	0	12,600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR	9	0	0	0	0	0	12,600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC4	11	0	0	0	0	0	14,700	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and TC1	11	0	0	0	0	0	14,700	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH4	11	0	0	0	0	0	14,700	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC3	11	0	0	0	0	0	14,700	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH2	11	0	0	0	0	0	14,700	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC1-2	12	0	0	0	0	0	16,800	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR BR1-2 and MC1-2	15	0	0	0	0	0	21,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retirement O&M Cost Delta																								
No Retirements																								
Retire TY	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and GR3	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and BR3	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR4	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 and CR6	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 CR6 and BR1-2	3	0	0	0	0	0	4,200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH3	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH1	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC4	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and TC1	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH4	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC3	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH2	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC1-2	3	0	0	0	0	0	4,200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR BR1-2 and MC1-2	6	0	0	0	0	0	8,400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Existing Unit Fixed O&M																								
No Retirements	3,421	214,901	219,007	210,243	214,448	218,737	223,112	227,574	232,125	236,768	241,503	246,333	251,260	256,285	261,411	266,639	271,972	277,411	282,959	288,619	294,391	300,279	306,284	312,410
Retire TY	3,416	214,901	219,007	210,243	214,448	218,737	222,666	227,121	231,663	236,297	241,023	245,843	250,760	255,775	260,891	266,108	271,431	276,859	282,396	288,044	293,805	299,681	305,675	311,788
Retire TY and GR3	3,365	214,901	219,007	210,243	214,448	218,737	218,041	222,402	226,850	231,387	236,015	240,735	245,550	250,461	255,470	260,579	265,791	271,107	276,529	282,059	287,701	293,455	299,324	305,310
Retire TY GR3 and BR3	3,190	214,901	219,007	210,243	214,448	218,737	202,225	206,270	210,395	214,603	218,895	223,273	227,738	232,293	236,939	241,678	246,511	251,442	256,470	261,600	266,832	272,169	277,612	283,164
Retire TY GR3 and CR4	3,224	214,901	219,007	210,243	214,448	218,737	205,276	209,382	213,569	217,841	222,197	226,641	231,174	235,798	240,514	245,324	250,230	255,235	260,340	265,547	270,857	276,275	281,800	287,436
Retire TY GR3 CR4 and CR6	3,104	214,901	219,007	210,243	214,448	218,737	194,481	198,370	202,338	206,385	210,512	214,722	219,017	223,397	227,865	232,423	237,071	241,812	246,649	251,582	256,613	261,745	266,980	272,320
Retire TY GR3 CR4 CR6 and BR1-2	2,972	214,901	219,007	210,243	214,448	218,737	182,572	186,223	189,948	193,747	197,621	201,574	205,605	209,717	213,912	218,190	222,554	227,005	231,545	236,176	240,899	245,717	250,632	255,644
Retire TY GR3 and CR	2,954	214,901	219,007	210,243	214,448	218,737	180,907	184,525	188,216	191,980	195,819	199,736	203,731	207,805	211,961	216,200	220,524	224,935	229,434	234,022	238,703	243,477	248,346	253,313
Retire TY GR3 CR and GH3	2,807	214,901	219,007	210,243	214,448	218,737	167,668	171,022	174,442	177,931	181,490	185,119	188,822	192,598	196,450	200,379	204,387	208,475	212,644	216,897	221,235	225,660	230,173	234,776
Retire TY GR3 CR and GH1	2,743	214,901	219,007	210,243	214,448	218,737	161,842	165,078	168,380	171,748	175,183	178,686	182,260	185,905	189,623	193,416	197,284	201,230	205,254	209,359	213,547	217,818	222,174	226,617
Retire TY GR and CR	2,852	214,901	219,007	210,243	214,448	218,737	171,746	175,181	178,684	182,258	185,903	189,621	193,414	197,282	201,227	205,252	209,357	213,544	217,815	222,171	226,615	231,147	235,770	240,485
Retire TY GR CR and MC4	2,650	214,901	219,007	210,243	214,448	218,737	153,445	156,514	159,644	162,837	166,094	169,416	172,804	176,260	179,786	183,381	187,049	190,790	194,606	198,498	202,468	206,517	210,647	214,860
Retire TY GR CR and TC1	2,648	214,901	219,007	210,243	214,448	218,737	153,278	156,343	159,470	162,660	165,913	169,231	172,616	176,068	179,589	183,181	186,845	190,582	194,393	198,281	202,247	206,292	210,418	214,626
Retire TY GR CR and GH4	2,710	214,901	219,007	210,243	214,448	218,737	158,900	162,078	165,319	168,625	171,998	175,438	178,947	182,526	186,176	189,900	193,698	197,572	201,523	205,554	209,665	213,858	218,135	222,498
Retire TY GR CR and MC3	2,650	214,901	219,007	210,243	214,448	218,737	153,470	156,540	159,671	162,864	166,121	169,444	172,833	176,289	179,815	183,411	187,079	190,821	194,637	198,530	202,501	206,551	210,682	214,896
Retire TY GR CR and GH2	2,695	214,901	219,007	210,243	214,448	218,737	157,494	160,644	163,857	167,134	170,477	173,886	177,364	180,911	184,530	188,220	191,985	195,824	199,741	203,736	207,810	211,966	216,206	220,530
Retire TY GR CR and MC1-2	2,525	214,901	219,007	210,243	214,448	218,737	142,170	145,013	147,914	150,872	153,889	156,967	160,106	163,308	166,575	169,906	173,304	176,770	180,306	183,912	187,590	191,342	195,169	199,072
Retire TY GR CR BR1-2 and MC1-2	2,393	214,901	219,007	210,243	214,448	218,737	130,261	132,866	135,523	138,234	140,998	143,818	146,695	149,629	152,621	155,674	158,787	161,963	165,202	168,506	171,876	175,314	178,820	182,397
Existing Unit Fixed O&M Delta																								
No Retirements																								
Retire TY	-5	0	0	0	0	0	-444	-453	-462	-471	-480	-490	-500	-510	-520	-530	-541	-552	-563	-574	-586	-597	-609	-622
Retire TY and GR3	-51	0	0	0	0	0	-4,627	-4,719	-4,813	-4,910	-5,008	-5,108	-5,210	-5,314	-5,421	-5,529	-5,640	-5,753	-5,868	-5,985	-6,105	-6,227	-6,351	-6,478
Retire TY GR3 and BR3	-175	0	0	0	0	0	-15,816	-16,132	-16,455	-16,784	-17,120	-17,462	-17,811	-18,167	-18,531	-18,901	-19,279	-19,665	-20,058	-20,460	-20,869	-21,286	-21,712	-22,146
Retire TY GR3 and CR4	-141	0	0	0	0	0	-12,765	-13,020	-13,281	-13,546	-13,817	-14,094	-14,375	-14,663	-14,956	-15,255	-15,560	-15,872	-16,189	-16,513	-16,843	-17,180	-17,524	-17,874
Retire TY GR3 CR4 and CR6	-120	0	0	0	0	0	-10,795	-11,011	-11,231	-11,456	-11,685	-11,919	-12,157	-12,400	-12,648	-12,901	-13,159	-13,423	-13,691	-13,965	-14,244	-14,529	-14,820	-15,116
Retire TY GR3 CR4 CR6 and BR1-2	-132	0	0	0	0	0	-11,909	-12,147	-12,390	-12,638	-12,891	-13,149	-13,412	-13,680	-13,953	-14,232	-14,517	-14,807	-15,104	-15,406	-15,714	-16,028	-16,349	-16,676
Retire TY GR3 and CR	-150	0	0	0	0	0	-13,574	-13,845	-14,122	-14,405	-14,693	-14,987	-15,286	-15,592	-15,904	-16,222	-16,546	-16,877	-17,215	-17,559	-17,910	-18,269	-18,634	-19,007
Retire TY GR3 CR and GH3	-147	0	0	0	0	0	-13,238	-13,503	-13,773	-14,049	-14,330	-14,616	-14,909	-15,207	-15,511	-15,821	-16,138	-16,460	-16,790	-17,125	-17,468	-17,817	-18,174	-18,537
Retire TY GR3 CR and GH1	-211	0	0	0	0	0	-19,065	-19,447	-19,835	-20,232	-20,637	-21,050	-21,471	-21,900	-22,338	-22,785	-23,240	-23,705	-24,179	-24,663	-25,156	-25,659	-26,172	-26,696
Retire TY GR and CR	-101	0	0	0	0	0	-9,161	-9,344	-9,531	-9,722	-9,916	-10,115	-10,317	-10,523	-10,734	-10,949	-11,167	-11,391	-11,619	-11,851	-12,088	-12,330	-12,576	-12,828
Retire TY GR CR and MC4	-203	0	0	0	0	0	-18,300	-18,666	-19,040	-19,421	-19,809	-20,205	-20,609	-21,021	-21,442	-21,871	-22,308	-22,754	-23,209	-23,674	-24,147	-24,630	-25,123	-25,625
Retire TY GR CR and TC1	-205	0	0	0	0	0	-18,468	-18,837	-19,214	-19,598	-19,990	-20,390	-20,798	-21,214	-21,638	-22,071	-22,512	-22,962	-23,422	-23,890	-24,368	-24,855	-25,352	-25,859
Retire TY GR CR and GH4	-142	0	0	0	0	0	-12,846	-13,103	-13,365	-13,632	-13,905	-14,183	-14,467	-14,756	-15,051	-15,352	-15,659	-15,973	-16,292	-16,618	-16,950	-17,289	-17,635	-17,988
Retire TY GR CR and MC3	-202	0	0	0	0	0	-18,275	-18,641	-19,014	-19,394	-19,782	-20,177	-20,581	-20,993	-21,412	-21,841	-22,278	-22,723	-23,178	-23,641	-24,114	-24,596	-25,088	-25,590
Retire TY GR CR and GH2	-158	0	0	0	0	0	-14,251	-14,536	-14,827	-15,124	-15,426	-15,735	-16,049	-16,370	-16,698	-17,032	-17,372	-17,720	-18,074	-18,436	-18,804	-19,181	-19,564	-19,955
Retire TY GR CR and MC1-2	-328	0	0	0	0	0	-29,576	-30,167	-30,771	-31,386	-32,014	-32,654	-33,307	-33,973	-34,653	-35,346	-36,053	-36,774	-37,509	-38,259	-39,025	-39,805	-40,601	-41,413
Retire TY GR CR BR1-2 and MC1-2	-460	0	0	0	0	0	-41,485	-42,315	-43,161	-44,024	-44,905	-45,803	-46,719	-47,653	-48,606	-49,578	-50,570	-51,581	-52,613	-53,665	-54,738	-55,833	-56,950	-58,089
New Controls Fixed O&M																								
No Retirements	426	0	8	123	4,486	12,567	37,131	37,913	38,710	39,524	40,353	41,199	42,023	42,864	43,721	44,595	45,487	46,397	47,325	48,271	49,237	50,222	51,226	52,251
Retire TY	383	0	8	123	4,486	12,567	33,231	33,935	34,653	35,385	36,132	36,893	37,631	38,384	39,152	39,935	40,733	41,548	42,379	43,227	44,091	44,973	45,872	46,790
Retire TY and GR3	340	0	8	123	4,486	12,567	29,332	29,957	30,595	31,246	31,910	32,588	33,239	33,904	34,582	35,274	35,979	36,699	37,433	38,182	38,945	39,724	40,519	41,329
Retire TY GR3 and BR3	327	0	8	123	4,486	11,499	28,243	28,847	29,462	30,091	30,732	31,385	32,013	32,653	33,306	33,973	34,652	35,345	36,052	36,773	37,508	38,259	39,024	39,804
Retire TY GR3 and CR4	298	0	8	123	4,486	12,567	25,497	26,046	26,606	27,177	27,760	28,354	28,921	29,499	30,089	30,691	31,305	31,931	32,570	33,221	33,886	34,563	35,255	35,960
Retire TY GR3 CR4 and CR6	243	0	8	123	4,486	12,567	20,527	20,977	21,435	21,903	22,380	22,867	23,324	23,791	24,267	24,752	25,247	25,752	26,267	26,792	27,328	27,875	28,432	29,001
Retire TY GR3 CR4 CR6 and BR1-2	222	0	8	123	2,960	10,953	18,881	19,298	19,723	20,156	20,598	21,049	21,470	21,900	22,338	22,784	23,240	23,705	24,179	24,665	25,156	25,659	26,172	26,696

10/17/2011

AESC Gas Prices (Nominal $) and Low CO2 Prices

Discount Rate: 6.71%

	$M	$000																						
	NPVRR	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Retire TY GR3 and CR	198	0	8	123	4,486	12,567	16,481	16,850	17,226	17,609	18,000	18,399	18,767	19,143	19,526	19,916	20,314	20,721	21,135	21,558	21,989	22,429	22,877	23,335
Retire TY GR3 CR and GH3	182	0	8	123	4,486	11,914	15,150	15,492	15,841	16,197	16,560	16,930	17,269	17,614	17,966	18,326	18,692	19,066	19,447	19,836	20,233	20,638	21,050	21,471
Retire TY GR3 CR and GH1	181	0	8	123	3,188	11,248	15,136	15,477	15,826	16,181	16,544	16,914	17,252	17,597	17,949	18,308	18,675	19,048	19,429	19,818	20,214	20,618	21,031	21,451
Retire TY GR and CR	142	0	8	123	4,486	12,567	11,459	11,728	12,001	12,280	12,565	12,855	13,112	13,375	13,642	13,915	14,193	14,477	14,767	15,062	15,363	15,670	15,984	16,304
Retire TY GR CR and MC4	123	0	8	123	3,739	11,012	9,874	10,110	10,352	10,598	10,849	11,105	11,327	11,553	11,784	12,020	12,261	12,506	12,756	13,011	13,271	13,537	13,807	14,084
Retire TY GR CR and TC1	131	0	8	123	4,486	12,073	10,452	10,700	10,953	11,211	11,475	11,743	11,978	12,218	12,462	12,711	12,965	13,225	13,489	13,759	14,034	14,315	14,601	14,893
Retire TY GR CR and GH4	127	0	8	123	4,486	11,935	10,170	10,413	10,660	10,912	11,170	11,432	11,661	11,894	12,132	12,374	12,622	12,874	13,132	13,395	13,662	13,936	14,214	14,499
Retire TY GR CR and MC3	126	0	8	99	4,449	11,882	10,102	10,343	10,589	10,839	11,095	11,356	11,583	11,815	12,051	12,292	12,538	12,789	13,045	13,306	13,572	13,843	14,120	14,402
Retire TY GR CR and GH2	121	0	0	24	3,608	10,878	9,737	9,970	10,209	10,452	10,700	10,953	11,172	11,396	11,624	11,856	12,093	12,335	12,582	12,833	13,090	13,352	13,619	13,891
Retire TY GR CR and MC1-2	105	0	8	123	4,486	9,706	8,474	8,643	8,816	8,992	9,172	9,356	9,543	9,734	9,928	10,127	10,329	10,536	10,747	10,962	11,181	11,405	11,633	11,865
Retire TY GR CR BR1-2 and MC1-2	84	0	8	123	2,960	8,092	6,828	6,964	7,103	7,245	7,390	7,538	7,689	7,843	8,000	8,160	8,323	8,489	8,659	8,832	9,009	9,189	9,373	9,560
New Controls Fixed O&M Delta																								
No Retirements																								
Retire TY	-43	0	0	0	0	0	-3,900	-3,978	-4,057	-4,139	-4,221	-4,306	-4,392	-4,480	-4,569	-4,661	-4,754	-4,849	-4,946	-5,045	-5,146	-5,249	-5,354	-5,461
Retire TY and GR3	-43	0	0	0	0	0	-3,900	-3,978	-4,057	-4,139	-4,221	-4,306	-4,392	-4,480	-4,569	-4,661	-4,754	-4,849	-4,946	-5,045	-5,146	-5,249	-5,354	-5,461
Retire TY GR3 and BR3	-13	0	0	0	0	-1,068	-1,089	-1,111	-1,133	-1,156	-1,179	-1,202	-1,226	-1,251	-1,276	-1,301	-1,327	-1,354	-1,381	-1,409	-1,437	-1,466	-1,495	-1,525
Retire TY GR3 and CR4	-42	0	0	0	0	0	-3,835	-3,911	-3,990	-4,069	-4,151	-4,234	-4,318	-4,405	-4,493	-4,583	-4,674	-4,768	-4,863	-4,960	-5,060	-5,161	-5,264	-5,369
Retire TY GR3 CR4 and CR6	-55	0	0	0	0	0	-4,970	-5,069	-5,171	-5,274	-5,379	-5,487	-5,597	-5,709	-5,823	-5,939	-6,058	-6,179	-6,303	-6,429	-6,557	-6,689	-6,822	-6,959
Retire TY GR3 CR4 CR6 and BR1-2	-21	0	0	0	-1,526	-1,614	-1,646	-1,679	-1,713	-1,747	-1,782	-1,818	-1,854	-1,891	-1,929	-1,967	-2,007	-2,047	-2,088	-2,130	-2,172	-2,216	-2,260	-2,305
Retire TY GR3 and CR	-45	0	0	0	0	0	-4,046	-4,127	-4,210	-4,294	-4,380	-4,467	-4,557	-4,648	-4,741	-4,836	-4,932	-5,031	-5,132	-5,234	-5,339	-5,446	-5,555	-5,666
Retire TY GR3 CR and GH3	-15	0	0	0	0	-652	-1,331	-1,358	-1,385	-1,412	-1,441	-1,469	-1,499	-1,529	-1,559	-1,591	-1,622	-1,655	-1,688	-1,722	-1,756	-1,791	-1,827	-1,864
Retire TY GR3 CR and GH1	-17	0	0	0	-1,298	-1,319	-1,345	-1,372	-1,400	-1,428	-1,456	-1,485	-1,515	-1,545	-1,576	-1,608	-1,640	-1,673	-1,706	-1,740	-1,775	-1,811	-1,847	-1,884
Retire TY GR and CR	-56	0	0	0	0	0	-5,022	-5,122	-5,224	-5,329	-5,435	-5,544	-5,655	-5,768	-5,884	-6,001	-6,121	-6,244	-6,369	-6,496	-6,626	-6,758	-6,894	-7,031
Retire TY GR CR and MC4	-19	0	0	0	-746	-1,554	-1,585	-1,617	-1,650	-1,683	-1,716	-1,750	-1,785	-1,821	-1,858	-1,895	-1,933	-1,971	-2,011	-2,051	-2,092	-2,134	-2,176	-2,220
Retire TY GR CR and TC1	-12	0	0	0	0	-494	-1,007	-1,027	-1,048	-1,069	-1,090	-1,112	-1,134	-1,157	-1,180	-1,204	-1,228	-1,252	-1,277	-1,303	-1,329	-1,356	-1,383	-1,410
Retire TY GR CR and GH4	-15	0	0	0	0	-632	-1,289	-1,315	-1,341	-1,368	-1,395	-1,423	-1,452	-1,481	-1,510	-1,540	-1,571	-1,603	-1,635	-1,667	-1,701	-1,735	-1,770	-1,805
Retire TY GR CR and MC3	-16	0	0	-24	-37	-684	-1,358	-1,385	-1,413	-1,441	-1,470	-1,499	-1,529	-1,560	-1,591	-1,623	-1,655	-1,688	-1,722	-1,756	-1,791	-1,827	-1,864	-1,901
Retire TY GR CR and GH2	-21	0	-8	-99	-878	-1,689	-1,723	-1,757	-1,792	-1,828	-1,865	-1,902	-1,940	-1,979	-2,019	-2,059	-2,100	-2,142	-2,185	-2,229	-2,273	-2,319	-2,365	-2,412
Retire TY GR CR and MC1-2	-37	0	0	0	0	-2,860	-2,986	-3,084	-3,185	-3,288	-3,393	-3,500	-3,570	-3,641	-3,714	-3,788	-3,864	-3,941	-4,020	-4,100	-4,182	-4,266	-4,351	-4,438
Retire TY GR CR BR1-2 and MC1-2	-58	0	0	0	-1,526	-4,474	-4,632	-4,764	-4,898	-5,035	-5,175	-5,317	-5,423	-5,532	-5,643	-5,755	-5,871	-5,988	-6,108	-6,230	-6,354	-6,482	-6,611	-6,743
Total Revenue Requirements																								
No Retirements	44,617	1,140,009	1,293,389	1,480,192	1,769,931	2,013,107	2,246,017	2,255,315	2,315,504	2,393,788	3,171,491	3,348,490	3,594,477	3,795,612	3,917,886	4,093,104	4,320,623	4,486,856	4,766,972	5,046,303	5,279,979	5,452,199	5,698,495	5,954,957
Retire TY	44,564	1,140,009	1,292,066	1,481,235	1,796,678	2,042,305	2,234,104	2,237,695	2,298,758	2,379,007	3,157,899	3,338,941	3,587,708	3,793,965	3,907,849	4,079,941	4,312,312	4,477,970	4,761,397	5,043,086	5,270,894	5,440,116	5,688,425	5,946,578
Retire TY and GR3	44,472	1,140,009	1,290,743	1,477,087	1,787,534	2,033,542	2,222,909	2,224,841	2,286,569	2,368,826	3,154,956	3,377,182	3,630,865	3,761,995	3,872,169	4,060,940	4,306,453	4,514,178	4,803,726	5,011,349	5,224,588	5,410,958	5,660,938	5,919,111
Retire TY GR3 and BR3	44,714	1,140,009	1,290,539	1,474,233	1,777,660	2,011,743	2,215,305	2,231,614	2,339,519	2,487,410	3,241,492	3,394,458	3,580,865	3,727,475	3,912,955	4,170,999	4,391,367	4,538,658	4,752,654	4,968,640	5,202,636	5,459,443	5,787,350	6,025,081
Retire TY GR3 and CR4	44,202	1,138,687	1,282,572	1,451,000	1,729,473	1,966,664	2,155,419	2,191,950	2,294,587	2,391,225	3,148,736	3,321,105	3,563,483	3,762,477	3,892,441	4,072,507	4,295,002	4,460,485	4,736,887	5,013,910	5,247,429	5,441,416	5,684,877	5,929,842
Retire TY GR3 CR4 and CR6	43,941	1,136,255	1,270,821	1,418,516	1,681,324	1,931,791	2,130,469	2,144,901	2,262,367	2,417,551	3,164,525	3,318,145	3,510,510	3,659,949	3,846,546	4,112,466	4,362,246	4,481,004	4,694,504	4,913,349	5,144,793	5,413,896	5,743,041	6,004,796
Retire TY GR3 CR4 CR6 and BR1-2	43,954	1,135,766	1,264,315	1,402,911	1,648,316	1,900,419	2,175,699	2,234,506	2,300,637	2,371,425	3,117,942	3,290,792	3,537,250	3,740,852	3,866,999	4,054,501	4,273,582	4,437,586	4,668,048	4,950,034	5,252,357	5,426,603	5,682,422	5,950,597
Retire TY GR3 and CR	43,684	1,134,929	1,262,057	1,392,104	1,631,097	1,883,431	2,102,817	2,155,755	2,286,138	2,376,966	3,106,666	3,269,178	3,472,693	3,672,808	3,874,698	4,059,743	4,272,042	4,436,549	4,661,012	4,921,451	5,220,534	5,404,120	5,660,196	5,939,493
Retire TY GR3 CR and GH3	43,980	1,134,814	1,261,491	1,390,742	1,649,188	1,916,657	2,187,663	2,172,578	2,300,160	2,455,243	3,161,113	3,312,245	3,499,627	3,655,932	3,848,518	4,116,964	4,359,563	4,477,451	4,690,359	4,910,914	5,155,032	5,418,090	5,752,670	6,009,566
Retire TY GR3 CR and GH1	43,891	1,134,742	1,257,163	1,380,107	1,639,585	1,920,215	2,198,145	2,187,903	2,256,772	2,361,989	3,139,088	3,369,309	3,539,309	3,673,982	3,811,272	4,015,994	4,311,134	4,528,359	4,722,028	4,948,872	5,167,999	5,372,467	5,635,298	5,964,101
Retire TY GR and CR	43,577	1,134,929	1,260,172	1,386,194	1,616,218	1,873,177	2,133,478	2,190,667	2,262,259	2,332,127	3,080,113	3,252,934	3,497,272	3,704,789	3,830,871	4,023,538	4,239,413	4,405,020	4,635,656	4,913,023	5,237,017	5,410,329	5,664,292	5,930,291
Retire TY GR CR and MC4	43,842	1,134,067	1,247,461	1,364,712	1,615,049	1,875,440	2,181,569	2,161,876	2,240,339	2,376,918	3,155,191	3,309,690	3,491,035	3,699,353	3,901,469	4,091,659	4,299,138	4,470,212	4,685,839	4,923,821	5,207,668	5,500,605	5,733,473	6,009,355
Retire TY GR CR and TC1	44,118	1,134,929	1,260,172	1,387,781	1,640,011	1,911,708	2,190,205	2,170,238	2,301,890	2,459,598	3,170,934	3,321,296	3,514,548	3,670,261	3,870,920	4,135,122	4,378,491	4,495,972	4,717,484	4,929,806	5,182,518	5,446,292	5,781,029	6,023,365
Retire TY GR CR and GH4	44,098	1,134,806	1,259,644	1,387,568	1,646,666	1,928,285	2,218,123	2,188,527	2,267,728	2,403,226	3,179,046	3,330,062	3,509,816	3,715,536	3,918,184	4,101,088	4,311,191	4,477,821	4,696,310	4,920,320	5,230,062	5,503,029	5,741,733	6,007,412
Retire TY GR CR and MC3	43,893	1,134,929	1,258,792	1,378,292	1,623,902	1,891,048	2,162,337	2,153,507	2,277,017	2,423,903	3,147,439	3,300,888	3,494,210	3,649,035	3,850,269	4,120,570	4,352,647	4,475,356	4,697,958	4,915,500	5,167,204	5,433,050	5,769,059	6,016,064
Retire TY GR CR and GH2	44,125	1,134,917	1,256,526	1,381,527	1,636,262	1,910,658	2,217,512	2,195,141	2,276,093	2,395,707	3,187,631	3,335,730	3,522,045	3,722,603	3,928,689	4,106,176	4,312,203	4,484,984	4,704,110	4,936,647	5,234,039	5,514,493	5,746,245	6,009,833
Retire TY GR CR and MC1-2	43,843	1,134,929	1,252,965	1,366,474	1,610,968	1,843,912	2,187,786	2,145,942	2,273,112	2,429,370	3,134,385	3,292,992	3,484,174	3,647,404	3,847,436	4,117,216	4,353,982	4,481,947	4,699,414	4,924,478	5,160,646	5,381,399	5,711,110	6,072,067
Retire TY GR CR BR1-2 and MC1-2	43,968	1,134,439	1,246,459	1,350,869	1,578,175	1,807,265	2,280,920	2,205,219	2,351,139	2,422,435	3,099,749	3,269,574	3,475,899	3,692,473	3,919,894	4,078,177	4,292,274	4,456,623	4,690,960	4,979,073	5,292,612	5,459,512	5,720,075	5,993,147
Total Revenue Requirements Delta																								
No Retirements																								
Retire TY	-53	0	-1,323	1,043	26,747	29,198	-11,914	-17,620	-16,746	-14,780	-13,593	-9,549	-6,769	-1,646	-10,037	-13,163	-8,311	-8,885	-5,575	-3,218	-9,085	-12,083	-10,070	-8,379
Retire TY and GR3	-93	0	-1,323	-4,148	-9,144	-8,763	-11,195	-12,853	-12,189	-10,182	-2,942	38,241	43,158	-31,971	-35,680	-19,001	-5,860	36,208	42,329	-31,737	-46,306	-29,159	-27,488	-27,467
Retire TY GR3 and BR3	242	0	-204	-2,854	-9,874	-21,799	-7,604	6,773	52,950	118,584	86,536	17,276	-50,000	-34,519	40,786	110,060	84,914	24,480	-51,072	-42,709	-21,952	48,486	126,412	105,969
Retire TY GR3 and CR4	-269	-1,322	-8,171	-26,088	-58,061	-66,878	-67,490	-32,892	8,018	22,399	-6,220	-56,077	-67,383	482	20,272	11,567	-11,450	-53,693	-66,839	2,561	22,841	30,458	23,939	10,731
Retire TY GR3 CR4 and CR6	-262	-2,432	-11,751	-32,484	-48,149	-34,873	-24,950	-47,049	-32,221	26,326	15,789	-2,961	-52,973	-102,528	-45,895	39,959	67,244	20,519	-42,382	-100,562	-102,636	-27,520	58,164	74,954
Retire TY GR3 CR4 CR6 and BR1-2	14	-489	-6,506	-15,605	-33,009	-31,372	45,230	89,605	38,271	-46,126	-46,583	-27,353	26,740	80,903	20,453	-57,965	-88,664	-43,419	-26,456	36,686	107,564	12,707	-60,618	-54,199
Retire TY GR3 and CR	-256	-1,326	-8,764	-26,412	-50,227	-48,360	-27,652	10,855	23,771	-40,585	-57,859	-48,967	-37,817	12,859	28,152	-52,724	-90,204	-44,456	-33,492	8,102	75,742	-9,777	-82,845	-65,304
Retire TY GR3 CR and GH3	295	-114	-565	-1,362	18,091	33,225	84,846	16,823	14,022	78,277	54,446	43,068	26,934	-16,876	-26,180	57,221	87,521	40,902	29,347	-10,536	-65,503	13,970	92,474	70,073
Retire TY GR3 CR and GH1	206	-187	-4,894	-11,997	8,488	36,784	95,328	32,148	-29,366	-14,977	32,422	100,131	66,616	1,175	-63,425	-43,749	39,092	91,811	61,016	27,422	-52,535	-31,653	-24,898	24,608
Retire TY GR and CR	-107	0	-1,885	-5,910	-14,879	-10,254	30,661	34,911	-23,878	-44,839	-26,553	-16,243	24,579	31,981	-43,827	-36,205	-32,629	-31,529	-25,356	-8,427	16,483	6,209	4,096	-9,202
Retire TY GR CR and MC4	265	-862	-12,710	-21,483	-1,168	2,263	48,091	-28,791	-21,920	44,791	75,078	56,755	-6,237	-5,436	70,598	68,122	59,725	65,191	50,183	10,798	-29,349	90,276	69,181	79,064
Retire TY GR CR and TC1	541	0	0	1,587	23,794	38,531	56,727	-20,429	39,630	127,471	90,820	68,362	17,276	-34,528	40,049	111,584	139,078	90,952	81,827	16,783	-54,499	35,963	116,737	93,075
Retire TY GR CR and GH4	521	-122	-527	1,374	30,448	55,108	84,646	-2,140	5,469	71,099	98,932	77,128	12,544	10,747	87,313	77,551	71,777	72,800	60,654	7,296	-6,955	92,700	77,441	77,121
Retire TY GR CR and MC3	316	0	-1,380	-7,902	7,684	17,871	28,859	-37,160	14,757	91,776	67,326	47,954	-3,063	-55,754	19,398	97,033	113,233	70,336	62,301	2,477	-69,813	22,721	104,768	85,773
Retire TY GR CR and GH2	548	-11	-3,645	-4,667	20,044	37,481	84,034	4,475	13,833	63,580	107,517	82,796	24,773	17,814	97,818	82,639	72,790	79,964	68,453	23,624	-2,978	104,164	81,954	79,543
Retire TY GR CR and MC1-2	265	0	-7,206	-19,720	-5,250	-29,265	54,308	-44,725	10,853	97,243	54,271	40,058	-13,098	-57,385	16,565	93,678	114,569	76,927	63,757	11,455	-76,371	-28,929	46,819	141,776
Retire TY GR CR BR1-2 and MC1-2	391	-489	-13,712	-35,325	-38,043	-65,912	147,442	14,552	88,880	90,308	19,635	16,640	-21,373	-12,316	89,023	54,639	52,860	51,603	55,303	66,050	55,595	49,183	55,783	62,856
Total Revenue Requirements Cumulative Delta																								
No Retirements																								
Retire TY		0	-1,323	-280	26,467	55,665	43,751	26,131	9,386	-5,395	-18,987	-28,537	-35,306	-36,952	-46,989	-60,152	-68,463	-77,348	-82,924	-86,141	-95,227	-107,310	-117,379	-125,758
Retire TY and GR3		0	-1,323	-5,471	-14,615	-23,378	-34,573	-47,426	-59,615	-69,797	-72,739	-34,497	8,660	-23,311	-58,990	-77,991	-83,851	-47,643	-5,315	-37,052	-83,358	-112,516	-140,004	-167,471
Retire TY GR3 and BR3		0	-204	-3,058	-12,933	-34,732	-42,335	-35,562	17,387	135,971	222,507	239,783	189,783	155,263	196,049	306,109	391,023	415,503	364,431	321,722	299,770	348,256	474,668	580,638
Retire TY GR3 and CR4		-1,322	-9,493	-35,581	-93,642	-160,520	-228,010	-260,901	-252,883	-230,484	-236,704	-292,781	-360,164	-359,681	-339,410	-327,842	-339,293	-392,985	-459,824	-457,263	-434,422	-403,963	-380,024	-369,293

AESC Gas Prices (Nominal $) and Low CO2 Prices

Discount Rate: 6.71%

	$M NPVRR	$000 2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Retire TY GR3 CR4 and CR6		-2,432	-14,184	-46,667	-94,816	-129,689	-154,638	-201,687	-233,908	-207,582	-191,793	-194,754	-247,726
Retire TY GR3 CR4 CR6 and BR1-2		-489	-6,995	-22,601	-55,609	-86,982	-41,752	47,853	86,124	39,998	-6,585	-33,938	-7,198
Retire TY GR3 and CR		-1,326	-10,090	-36,502	-86,729	-135,089	-162,741	-151,887	-128,115	-168,700	-226,559	-275,526	-313,343
Retire TY GR3 CR and GH3		-114	-680	-2,042	16,050	49,275	134,121	150,944	164,965	243,243	297,689	340,756	367,691
Retire TY GR3 CR and GH1		-187	-5,080	-17,078	-8,590	28,193	123,521	155,669	126,303	111,326	143,748	243,879	310,495
Retire TY GR and CR		0	-1,885	-7,795	-22,675	-32,929	-2,268	32,643	8,765	-36,074	-62,627	-78,871	-54,291
Retire TY GR CR and MC4		-862	-13,572	-35,054	-36,223	-33,960	14,131	-14,660	-36,580	8,211	83,289	140,045	133,807
Retire TY GR CR and TC1		0	0	1,587	25,381	63,912	120,639	100,210	139,840	267,311	358,132	426,494	443,770
Retire TY GR CR and GH4		-122	-649	725	31,172	86,281	170,926	168,787	174,256	245,354	344,287	421,415	433,959
Retire TY GR CR and MC3		0	-1,380	-9,281	-1,598	16,273	45,133	7,973	22,730	114,506	181,832	229,786	226,723
Retire TY GR CR and GH2		-11	-3,657	-8,324	11,720	49,201	133,235	137,710	151,543	215,123	322,640	405,436	430,209
Retire TY GR CR and MC1-2		0	-7,206	-26,926	-32,176	-61,441	-7,133	-51,857	-41,004	56,238	110,510	150,567	137,469
Retire TY GR CR BR1-2 and MC1-2		-489	-14,202	-49,527	-87,570	-153,482	-6,040	8,512	97,392	187,699	207,335	223,974	202,601

	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Retire TY GR3 CR4 and CR6	-350,254	-396,149	-356,190	-288,946	-268,427	-310,809	-411,371	-514,007	-541,527	-483,362	-408,409
Retire TY GR3 CR4 CR6 and BR1-2	73,705	94,158	36,193	-52,472	-95,890	-122,346	-85,661	21,904	34,610	-26,008	-80,207
Retire TY GR3 and CR	-300,484	-272,332	-325,056	-415,260	-459,716	-493,208	-485,106	-409,364	-419,141	-501,986	-567,289
Retire TY GR3 CR and GH3	350,815	324,635	381,856	469,377	510,279	539,626	529,090	463,587	477,557	570,032	640,105
Retire TY GR3 CR and GH1	311,670	248,244	204,496	243,587	335,398	396,414	423,836	371,300	339,647	314,749	339,358
Retire TY GR and CR	-22,311	-66,137	-102,342	-134,971	-166,499	-191,855	-200,283	-183,800	-177,591	-173,496	-182,697
Retire TY GR CR and MC4	128,372	198,970	267,091	326,816	392,008	442,190	452,988	423,639	513,915	583,096	662,161
Retire TY GR CR and TC1	409,242	449,291	560,875	699,953	790,905	872,732	889,516	835,016	870,980	987,717	1,080,792
Retire TY GR CR and GH4	444,706	532,019	609,570	681,347	754,147	814,802	822,098	815,142	907,842	985,283	1,062,405
Retire TY GR CR and MC3	170,969	190,367	287,399	400,633	470,969	533,270	535,747	465,933	488,654	593,422	679,195
Retire TY GR CR and GH2	448,023	545,841	628,480	701,270	781,233	849,687	873,311	870,333	974,497	1,056,451	1,135,993
Retire TY GR CR and MC1-2	80,085	96,650	190,328	304,897	381,824	445,581	457,036	380,665	351,735	398,554	540,330
Retire TY GR CR BR1-2 and MC1-2	190,286	279,308	333,947	386,807	438,411	493,714	559,763	615,359	664,542	720,325	783,181

10/17/2011

Discount Rate:

	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058
New Unit Capital and Production Cost																									
No Retirements	5,498,658	5,839,599	6,133,750	6,422,808	6,747,126	7,035,325	7,408,494																		
Retire TY	5,504,323	5,847,684	6,135,337	6,422,895	6,748,761	7,037,489	7,412,772																		
Retire TY and GR3	5,480,160	5,809,143	6,084,794	6,378,939	6,768,155	7,114,213	7,498,223																		
Retire TY GR3 and BR3	5,568,348	5,836,905	6,124,750	6,428,059	6,828,759	7,181,073	7,527,623																		
Retire TY GR3 and CR4	5,472,970	5,809,568	6,178,215	6,460,897	6,797,874	7,083,690	7,455,842																		
Retire TY GR3 CR4 and CR6	5,560,196	5,825,535	6,114,031	6,413,203	6,803,986	7,163,573	7,534,175																		
Retire TY GR3 CR4 CR6 and BR1-2	5,560,393	5,897,375	6,270,064	6,550,743	6,887,950	7,180,180	7,545,678																		
Retire TY GR3 and CR	5,597,128	5,941,614	6,226,960	6,518,664	6,840,392	7,135,658	7,509,813																		
Retire TY GR3 CR and GH3	5,657,401	5,926,127	6,217,282	6,517,680	6,905,603	7,275,738	7,642,754																		
Retire TY GR3 CR and GH1	5,686,968	5,934,445	6,232,771	6,536,417	6,950,188	7,330,357	7,701,195																		
Retire TY GR and CR	5,554,894	5,891,151	6,260,596	6,545,279	6,878,176	7,171,229	7,539,739																		
Retire TY GR CR and MC4	5,678,696	5,955,935	6,255,370	6,610,010	6,989,435	7,286,093	7,671,765																		
Retire TY GR CR and TC1	5,691,913	5,957,731	6,257,690	6,558,868	6,978,090	7,356,361	7,733,081																		
Retire TY GR CR and GH4	5,682,949	5,956,551	6,252,628	6,614,169	7,013,245	7,291,959	7,669,082																		
Retire TY GR CR and MC3	5,682,394	5,945,201	6,246,780	6,552,260	6,966,856	7,346,730	7,721,802																		
Retire TY GR CR and GH2	5,693,963	5,967,913	6,275,008	6,622,376	7,027,406	7,300,252	7,670,854																		
Retire TY GR CR and MC1-2	5,758,845	6,021,997	6,312,943	6,621,064	7,013,353	7,376,667	7,750,546																		
Retire TY GR CR BR1-2 and MC1-2	5,744,601	6,033,657	6,406,424	6,789,115	7,106,853	7,404,598	7,777,420																		
Production Cost																									
No Retirements	5,134,007	5,422,941	5,682,256	5,973,021	6,316,872	6,622,687	7,011,609																		
Retire TY	5,142,631	5,433,947	5,686,726	5,975,952	6,321,312	6,627,617	7,018,614																		
Retire TY and GR3	5,152,654	5,446,419	5,699,510	5,990,908	6,347,919	6,656,615	7,016,882																		
Retire TY GR3 and BR3	5,158,894	5,444,186	5,747,018	6,058,015	6,424,879	6,739,746	7,062,822																		
Retire TY GR3 and CR4	5,138,034	5,426,144	5,741,772	5,989,218	6,328,414	6,633,342	7,022,676																		
Retire TY GR3 CR4 and CR6	5,150,742	5,432,816	5,736,299	6,043,159	6,400,106	6,722,247	7,069,374																		
Retire TY GR3 CR4 CR6 and BR1-2	5,186,551	5,476,397	5,797,213	6,043,619	6,384,008	6,696,313	7,079,956																		
Retire TY GR3 and CR	5,194,903	5,488,006	5,739,036	6,032,834	6,374,483	6,689,132	7,080,772																		
Retire TY GR3 CR and GH3	5,207,270	5,493,862	5,801,134	6,110,350	6,465,569	6,799,387	7,144,060																		
Retire TY GR3 CR and GH1	5,274,493	5,501,547	5,805,464	6,116,689	6,479,989	6,804,657	7,138,833																		
Retire TY GR and CR	5,181,052	5,470,173	5,787,745	6,038,155	6,374,234	6,687,362	7,074,017																		
Retire TY GR CR and MC4	5,246,776	5,541,704	5,850,771	6,173,599	6,517,688	6,792,642	7,183,909																		
Retire TY GR CR and TC1	5,241,782	5,525,466	5,841,542	6,149,000	6,517,745	6,840,659	7,181,173																		
Retire TY GR CR and GH4	5,251,029	5,542,320	5,848,029	6,177,758	6,541,498	6,798,508	7,181,226																		
Retire TY GR CR and MC3	5,232,263	5,512,936	5,830,632	6,142,392	6,506,511	6,831,028	7,169,894																		
Retire TY GR CR and GH2	5,262,043	5,553,682	5,870,409	6,185,965	6,555,659	6,806,801	7,182,998																		
Retire TY GR CR and MC1-2	5,298,710	5,563,363	5,871,528	6,189,506	6,550,073	6,877,831	7,229,930																		
Retire TY GR CR BR1-2 and MC1-2	5,313,366	5,609,104	5,934,530	6,265,237	6,549,218	6,851,597	7,246,369																		
Production Cost Delta																									
No Retirements																									
Retire TY	8,625	11,006	4,469	2,931	4,440	4,930	7,006																		
Retire TY and GR3	10,023	12,472	12,784	14,956	26,608	28,998	-1,732																		
Retire TY GR3 and BR3	6,240	-2,232	47,508	67,107	76,960	83,131	45,940																		
Retire TY GR3 and CR4	-14,620	-20,275	42,262	-1,690	-19,506	-23,273	5,793																		
Retire TY GR3 CR4 and CR6	12,708	6,673	-5,473	53,941	71,692	88,905	46,699																		
Retire TY GR3 CR4 CR6 and BR1-2	35,810	43,581	60,914	460	-16,098	-25,933	10,582																		
Retire TY GR3 and CR	44,161	55,189	2,737	-10,324	-25,623	-33,115	11,398																		
Retire TY GR3 CR and GH3	12,367	5,856	62,098	77,516	91,086	110,256	63,287																		
Retire TY GR3 CR and GH1	79,590	13,542	66,427	83,854	105,507	115,525	58,060																		
Retire TY GR and CR	-13,851	-17,833	48,708	5,320	-249	-1,770	-6,756																		
Retire TY GR CR and MC4	65,724	71,531	63,027	135,444	143,454	105,280	109,892																		
Retire TY GR CR and TC1	60,730	55,293	53,798	110,846	143,511	153,297	107,156																		
Retire TY GR CR and GH4	69,977	72,147	60,285	139,603	167,264	111,146	107,209																		
Retire TY GR CR and MC3	51,211	42,763	42,888	104,238	132,277	143,666	95,877																		
Retire TY GR CR and GH2	80,991	83,509	82,665	147,810	181,425	119,439	108,981																		
Retire TY GR CR and MC1-2	117,658	93,190	83,783	151,351	175,839	190,469	155,913																		
Retire TY GR CR BR1-2 and MC1-2	132,314	138,931	146,786	227,082	174,984	164,235	172,352																		
New Unit Capital																									
No Retirements	364,652	416,658	451,494	449,787	430,254	412,638	396,885																		
Retire TY	361,692	413,737	448,611	446,943	427,449	409,872	394,158																		
Retire TY and GR3	327,506	362,724	385,284	388,031	420,236	457,598	481,341																		
Retire TY GR3 and BR3	409,454	392,719	377,732	370,044	403,880	441,327	464,801																		
Retire TY GR3 and CR4	334,936	383,425	436,443	471,679	469,460	450,348	433,167																		
Retire TY GR3 CR4 and CR6	409,454	392,719	377,732	370,044	403,880	441,327	464,801																		
Retire TY GR3 CR4 CR6 and BR1-2	373,842	420,978	472,851	507,124	503,942	483,867	465,722																		
Retire TY GR3 and CR	402,225	453,608	487,924	485,830	465,909	446,526	429,041																		
Retire TY GR3 CR and GH3	450,131	432,265	416,148	407,330	440,035	476,351	498,695																		
Retire TY GR3 CR and GH1	412,475	432,898	427,307	419,729	470,199	525,700	562,362																		
Retire TY GR and CR	373,842	420,978	472,851	507,124	503,942	483,867	465,722																		
Retire TY GR CR and MC4	431,920	414,231	404,599	436,411	471,747	493,451	487,856																		
Retire TY GR CR and TC1	450,131	432,265	416,148	409,868	460,345	515,702	551,908																		
Retire TY GR CR and GH4	431,920	414,231	404,599	436,411	471,747	493,451	487,856																		
Retire TY GR CR and MC3	450,131	432,265	416,148	409,868	460,345	515,702	551,908																		

10/17/2011

Discount Rate:

	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058
Retire TY GR CR and GH2	431,920	414,231	404,599	436,411	471,747	493,451	487,856																		
Retire TY GR CR and MC1-2	460,135	458,634	441,415	431,558	463,280	498,836	520,616																		
Retire TY GR CR BR1-2 and MC1-2	431,235	424,553	471,894	523,878	557,635	553,001	531,051																		
New Unit Capital Delta																									
No Retirements																									
Retire TY	-2,960	-2,921	-2,882	-2,844	-2,805	-2,766	-2,728																		
Retire TY and GR3	-34,186	-51,013	-63,327	-58,912	-7,214	47,726	87,183																		
Retire TY GR3 and BR3	81,948	29,994	-7,552	-17,987	-16,356	-16,271	-16,540																		
Retire TY GR3 and CR4	7,430	20,700	51,159	83,648	49,225	-7,250	-48,174																		
Retire TY GR3 CR4 and CR6	74,518	9,294	-58,711	-101,635	-65,580	-9,022	31,634																		
Retire TY GR3 CR4 CR6 and BR1-2	-35,613	28,259	95,120	137,080	100,062	42,540	921																		
Retire TY GR3 and CR	-7,229	60,890	110,192	115,785	62,029	5,200	-35,760																		
Retire TY GR3 CR and GH3	47,906	-21,343	-71,776	-78,500	-25,875	29,824	69,654																		
Retire TY GR3 CR and GH1	10,250	-20,711	-60,616	-66,101	4,290	79,174	133,322																		
Retire TY GR and CR	-28,383	-32,630	-15,072	21,295	38,033	37,341	36,682																		
Retire TY GR CR and MC4	58,078	-6,747	-68,253	-70,713	-32,195	9,584	22,134																		
Retire TY GR CR and TC1	76,289	11,287	-56,704	-97,257	-43,597	31,835	86,186																		
Retire TY GR CR and GH4	58,078	-6,747	-68,253	-70,713	-32,195	9,584	22,134																		
Retire TY GR CR and MC3	76,289	11,287	-56,704	-97,257	-43,597	31,835	86,186																		
Retire TY GR CR and GH2	58,078	-6,747	-68,253	-70,713	-32,195	9,584	22,134																		
Retire TY GR CR and MC1-2	86,294	37,656	-31,436	-75,566	-40,662	14,970	54,894																		
Retire TY GR CR BR1-2 and MC1-2	57,393	3,575	-958	16,754	53,693	69,134	65,329																		
New Controls Capital																									
No Retirements	141,026	135,277	119,424	109,283	101,867	88,953	74,209	52,894	45,452	42,906	37,390	35,540	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY	138,662	132,998	117,231	107,176	99,846	87,017	72,358	51,130	43,773	41,312	35,882	34,117	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY and GR3	136,297	130,720	115,038	105,069	97,824	85,081	70,508	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 and BR3	129,594	124,219	108,740	98,973	91,931	79,391	65,021	44,080	37,012	34,840	29,698	28,222	28,342	24,730	20,598	18,334	17,123	16,121	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 and CR4	136,297	130,720	115,038	105,069	97,824	85,081	70,508	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 CR4 and CR6	136,297	130,720	115,038	105,069	97,824	85,081	70,508	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 CR4 CR6 and BR1-2	123,868	118,712	103,452	93,904	87,082	74,760	60,609	39,888	33,038	31,085	26,162	24,905	25,245	24,162	23,079	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 and CR	136,297	130,720	115,038	105,069	97,824	85,081	70,508	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 CR and GH3	124,848	119,595	104,237	94,591	87,670	75,250	61,001	40,181	33,234	31,183	26,162	24,807	25,048	21,556	17,546	15,405	14,313	11,613	5,135	4,897	4,659	4,421	4,000	3,489	253
Retire TY GR3 CR and GH1	127,713	122,527	107,236	97,657	90,804	78,451	67,816	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR and CR	133,122	127,707	112,188	102,381	97,824	85,081	70,508	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and MC4	112,041	107,564	92,984	84,115	80,616	68,889	56,377	48,351	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and TC1	126,129	120,988	105,743	96,210	91,927	79,458	65,159	44,290	37,293	35,533	34,114	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and GH4	122,452	117,356	102,155	92,667	88,428	76,004	61,749	40,925	33,972	31,916	26,890	25,529	25,766	22,269	18,253	16,105	15,341	12,691	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and MC3	120,481	115,617	100,648	91,392	87,386	75,594	61,960	44,459	41,752	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and GH2	123,707	118,530	103,249	93,680	89,361	76,855	62,520	41,615	34,581	32,444	27,338	25,896	26,052	22,474	18,376	16,149	14,973	12,154	5,232	4,152	214	0	0	0	0
Retire TY GR CR and MC1-2	97,600	94,027	90,455	86,883	83,190	79,138	70,508	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR BR1-2 and MC1-2	85,170	82,020	78,869	75,718	72,447	68,818	60,609	39,888	33,038	31,085	26,162	24,905	25,245	24,162	23,079	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
New Controls Capital Delta																									
No Retirements																									
Retire TY	-2,364	-2,279	-2,193	-2,107	-2,022	-1,936	-1,850	-1,765	-1,679	-1,594	-1,508	-1,422	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and GR3	-2,364	-2,279	-2,193	-2,107	-2,022	-1,936	-1,850	-1,765	-1,679	-1,594	-1,508	-1,422	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and BR3	-6,703	-6,501	-6,298	-6,095	-5,893	-5,690	-5,487	-5,284	-5,082	-4,879	-4,676	-4,474	-4,271	-4,068	-3,865	-3,663	-3,460	-1,405	0	0	0	0	0	0	0
Retire TY GR3 and CR4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 and CR6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 CR6 and BR1-2	-12,429	-12,008	-11,586	-11,164	-10,742	-10,321	-9,899	-9,477	-9,055	-8,634	-8,212	-7,790	-7,369	-4,636	-1,384	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH3	-11,449	-11,125	-10,802	-10,478	-10,154	-9,831	-9,507	-9,183	-8,860	-8,536	-8,212	-7,889	-7,565	-7,241	-6,918	-6,594	-6,270	-5,913	-5,232	-4,152	-214	0	0	0	0
Retire TY GR3 CR and GH1	-8,584	-8,193	-7,802	-7,411	-7,020	-6,629	-2,692	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR	-3,176	-3,013	-2,850	-2,687	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC4	-21,080	-20,142	-19,204	-18,266	-17,208	-16,191	-14,131	-1,014	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and TC1	-6,993	-6,719	-6,445	-6,171	-5,897	-5,623	-5,349	-5,075	-4,801	-4,186	-261	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH4	-10,670	-10,351	-10,033	-9,714	-9,395	-9,077	-8,758	-8,440	-8,121	-7,803	-7,484	-7,166	-6,847	-6,529	-6,210	-5,892	-5,243	-4,835	0	0	0	0	0	0	0
Retire TY GR CR and MC3	-12,641	-12,090	-11,540	-10,989	-10,438	-9,487	-8,547	-4,906	-341	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH2	-9,414	-9,177	-8,939	-8,701	-8,463	-8,226	-7,988	-7,750	-7,512	-7,274	-7,037	-6,799	-6,561	-6,323	-6,086	-5,848	-5,610	-5,372	-5,135	-4,897	-4,659	-4,421	-4,000	-3,489	-253
Retire TY GR CR and MC1-2	-35,522	-33,680	-21,733	-15,499	-14,634	-5,943	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR BR1-2 and MC1-2	-47,952	-45,687	-33,319	-26,663	-25,377	-16,263	-9,899	-9,477	-9,055	-8,634	-8,212	-7,790	-7,369	-4,636	-1,384	0	0	0	0	0	0	0	0	0	0
MTP Capital																									
No Retirements	139,365	145,108	150,899	156,087	161,351	166,658	172,046																		
Retire TY	136,574	142,204	147,882	152,995	158,182	163,409	168,716																		
Retire TY and GR3	135,423	141,005	146,635	151,700	156,839	162,032	167,305																		
Retire TY GR3 and BR3	127,287	132,518	137,793	142,498	147,275	152,102	157,005																		
Retire TY GR3 and CR4	133,190	138,717	144,290	149,295	154,374	159,506	164,715																		
Retire TY GR3 CR4 and CR6	129,732	135,173	140,657	145,572	150,558	155,594	160,706																		
Retire TY GR3 CR4 CR6 and BR1-2	124,491	129,705	134,960	139,644	144,396	149,197	154,070																		
Retire TY GR3 and CR	127,312	132,692	138,115	142,966	147,886	152,856	157,899																		
Retire TY GR3 CR and GH3	112,482	117,220	121,994	126,191	130,449	134,750	139,117																		
Retire TY GR3 CR and GH1	112,636	117,381	122,162	126,365	130,631	134,939	139,312																		
Retire TY GR and CR	125,703	131,017	136,373	141,157	146,010	150,933	155,928																		
Retire TY GR CR and MC4	111,099	115,823	120,587	124,977	129,425	133,934	138,504																		
Retire TY GR CR and TC1	122,417	127,586	132,796	137,432	142,136	146,907	151,749																		

Discount Rate:

	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058
Retire TY GR CR and GH4	110,903	115,577	120,286	124,417	128,609	132,865	137,185																		
Retire TY GR CR and MC3	113,732	118,562	123,433	127,894	132,416	136,999	141,645																		
Retire TY GR CR and GH2	110,749	115,416	120,116	124,242	128,428	132,676	136,989																		
Retire TY GR CR and MC1-2	107,211	111,778	116,384	120,669	125,010	129,408	133,865																		
Retire TY GR CR BR1-2 and MC1-2	101,970	106,310	110,687	114,741	118,848	123,011	127,229																		
MTP Capital Delta																									
No Retirements																									
Retire TY	-2,790	-2,904	-3,017	-3,092	-3,170	-3,249	-3,330																		
Retire TY and GR3	-1,152	-1,199	-1,247	-1,295	-1,343	-1,377	-1,411																		
Retire TY GR3 and BR3	-8,136	-8,488	-8,843	-9,202	-9,564	-9,930	-10,300																		
Retire TY GR3 and CR4	-2,233	-2,289	-2,346	-2,405	-2,465	-2,526	-2,589																		
Retire TY GR3 CR4 and CR6	-3,457	-3,544	-3,632	-3,723	-3,816	-3,912	-4,009																		
Retire TY GR3 CR4 CR6 and BR1-2	-5,241	-5,468	-5,697	-5,928	-6,161	-6,397	-6,635																		
Retire TY GR3 and CR	-2,420	-2,481	-2,543	-2,606	-2,671	-2,738	-2,807																		
Retire TY GR3 CR and GH3	-14,831	-15,472	-16,121	-16,775	-17,437	-18,106	-18,782																		
Retire TY GR3 CR and GH1	-14,676	-15,311	-15,953	-16,601	-17,256	-17,918	-18,587																		
Retire TY GR and CR	-1,609	-1,675	-1,742	-1,809	-1,876	-1,923	-1,971																		
Retire TY GR CR and MC4	-14,604	-15,194	-15,786	-16,180	-16,585	-16,999	-17,424																		
Retire TY GR CR and TC1	-3,286	-3,431	-3,577	-3,725	-3,875	-4,026	-4,180																		
Retire TY GR CR and GH4	-14,800	-15,440	-16,087	-16,741	-17,401	-18,069	-18,743																		
Retire TY GR CR and MC3	-11,971	-12,455	-12,940	-13,263	-13,595	-13,934	-14,283																		
Retire TY GR CR and GH2	-14,954	-15,601	-16,255	-16,915	-17,583	-18,257	-18,939																		
Retire TY GR CR and MC1-2	-18,492	-19,239	-19,988	-20,488	-21,000	-21,525	-22,063																		
Retire TY GR CR BR1-2 and MC1-2	-23,734	-24,707	-25,685	-26,416	-27,162	-27,923	-28,699																		
Landfill Capital																									
No Retirements	115,469	117,869	118,900	120,220	42,001	38,766	37,512																		
Retire TY	115,469	117,869	118,900	120,220	42,001	38,766	37,512																		
Retire TY and GR3	115,469	117,869	118,900	120,220	42,001	38,766	37,512																		
Retire TY GR3 and BR3	113,987	116,506	118,678	120,031	41,844	38,642	37,415																		
Retire TY GR3 and CR4	113,721	116,150	117,208	118,512	40,273	37,019	35,741																		
Retire TY GR3 CR4 and CR6	110,944	113,487	114,588	115,867	37,599	34,314	33,000																		
Retire TY GR3 CR4 CR6 and BR1-2	109,989	112,609	114,445	115,745	37,498	34,234	32,937																		
Retire TY GR3 and CR	109,049	111,624	112,754	114,016	35,727	32,420	31,081																		
Retire TY GR3 CR and GH3	89,473	91,157	91,345	92,095	33,209	30,546	29,362																		
Retire TY GR3 CR and GH1	89,677	91,370	91,568	92,323	33,235	30,566	29,380																		
Retire TY GR and CR	109,049	111,624	112,754	114,016	35,727	32,420	31,081																		
Retire TY GR CR and MC4	109,049	111,624	112,754	114,016	35,727	32,420	31,081																		
Retire TY GR CR and TC1	97,383	100,281	101,723	103,285	25,285	22,258	21,195																		
Retire TY GR CR and GH4	89,514	91,199	91,390	92,141	33,214	30,550	29,366																		
Retire TY GR CR and MC3	109,049	111,624	112,754	114,016	35,727	32,420	31,081																		
Retire TY GR CR and GH2	89,310	90,986	91,167	91,912	33,188	30,531	29,348																		
Retire TY GR CR and MC1-2	109,049	111,624	112,754	114,016	35,727	32,420	31,081																		
Retire TY GR CR BR1-2 and MC1-2	108,094	110,746	112,611	113,894	35,626	32,340	31,018																		
Landfill Capital Delta																									
No Retirements																									
Retire TY	0	0	0	0	0	0	0																		
Retire TY and GR3	0	0	0	0	0	0	0																		
Retire TY GR3 and BR3	-1,482	-1,363	-222	-189	-157	-124	-97																		
Retire TY GR3 and CR4	-1,748	-1,719	-1,692	-1,708	-1,727	-1,747	-1,771																		
Retire TY GR3 CR4 and CR6	-2,777	-2,662	-2,620	-2,645	-2,674	-2,705	-2,742																		
Retire TY GR3 CR4 CR6 and BR1-2	-955	-878	-143	-122	-101	-80	-62																		
Retire TY GR3 and CR	-1,895	-1,864	-1,834	-1,851	-1,872	-1,894	-1,919																		
Retire TY GR3 CR and GH3	-19,576	-20,467	-21,409	-21,921	-2,518	-1,874	-1,718																		
Retire TY GR3 CR and GH1	-19,372	-20,254	-21,186	-21,692	-2,492	-1,854	-1,700																		
Retire TY GR and CR	0	0	0	0	0	0	0																		
Retire TY GR CR and MC4	0	0	0	0	0	0	0																		
Retire TY GR CR and TC1	-11,666	-11,343	-11,031	-10,731	-10,442	-10,162	-9,886																		
Retire TY GR CR and GH4	-19,535	-20,424	-21,364	-21,875	-2,513	-1,870	-1,715																		
Retire TY GR CR and MC3	0	0	0	0	0	0	0																		
Retire TY GR CR and GH2	-19,739	-20,637	-21,587	-22,103	-2,539	-1,889	-1,733																		
Retire TY GR CR and MC1-2	0	0	0	0	0	0	0																		
Retire TY GR CR BR1-2 and MC1-2	-955	-878	-143	-122	-101	-80	-62																		
Water Capital																									
No Retirements	11,399	10,985	10,571	10,157	9,743	9,329	6,496																		
Retire TY	11,062	10,662	10,262	9,862	9,463	9,063	6,245																		
Retire TY and GR3	10,724	10,339	9,953	9,568	9,183	8,797	5,993																		
Retire TY GR3 and BR3	9,365	9,023	8,680	8,338	7,995	7,653	4,892																		
Retire TY GR3 and CR4	10,724	10,339	9,953	9,568	9,183	8,797	5,993																		
Retire TY GR3 CR4 and CR6	10,724	10,339	9,953	9,568	9,183	8,797	5,993																		
Retire TY GR3 CR4 CR6 and BR1-2	9,849	9,491	9,133	8,775	8,418	8,060	5,284																		
Retire TY GR3 and CR	10,724	10,339	9,953	9,568	9,183	8,797	5,993																		
Retire TY GR3 CR and GH3	9,840	9,482	9,124	8,765	8,407	8,049	5,272																		
Retire TY GR3 CR and GH1	9,850	9,491	9,132	8,774	8,415	8,056	5,279																		
Retire TY GR and CR	10,253	9,888	9,522	9,157	8,791	8,426	5,642																		

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Discount Rate:

	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058
Retire TY GR CR and MC4	9,166	8,852	8,537	8,222	7,907	7,592	5,642																		
Retire TY GR CR and TC1	9,787	9,434	9,082	8,729	8,376	8,023	5,252																		
Retire TY GR CR and GH4	9,371	9,033	8,694	8,356	8,017	7,679	4,922																		
Retire TY GR CR and MC3	9,362	9,038	8,714	8,390	8,066	7,742	5,642																		
Retire TY GR CR and GH2	9,362	9,024	8,686	8,347	8,009	7,671	4,915																		
Retire TY GR CR and MC1-2	8,877	8,576	8,274	7,973	7,671	7,370	5,642																		
Retire TY GR CR BR1-2 and MC1-2	8,002	7,728	7,454	7,180	6,906	6,632	4,933																		
Water Capital Delta																									
No Retirements																									
Retire TY	-337	-323	-309	-294	-280	-266	-251																		
Retire TY and GR3	-337	-323	-309	-294	-280	-266	-251																		
Retire TY GR3 and BR3	-1,359	-1,316	-1,273	-1,230	-1,187	-1,144	-1,101																		
Retire TY GR3 and CR4	0	0	0	0	0	0	0																		
Retire TY GR3 CR4 and CR6	0	0	0	0	0	0	0																		
Retire TY GR3 CR4 CR6 and BR1-2	-876	-848	-820	-793	-765	-737	-710																		
Retire TY GR3 and CR	0	0	0	0	0	0	0																		
Retire TY GR3 CR and GH3	-884	-857	-830	-803	-776	-748	-721																		
Retire TY GR3 CR and GH1	-875	-848	-821	-794	-767	-741	-714																		
Retire TY GR and CR	-471	-451	-431	-411	-391	-371	-351																		
Retire TY GR CR and MC4	-1,086	-1,036	-986	-935	-885	-834	0																		
Retire TY GR CR and TC1	-466	-453	-441	-428	-415	-403	-390																		
Retire TY GR CR and GH4	-882	-855	-828	-801	-774	-747	-720																		
Retire TY GR CR and MC3	-891	-849	-808	-766	-725	-684	0																		
Retire TY GR CR and GH2	-891	-864	-837	-809	-782	-755	-727																		
Retire TY GR CR and MC1-2	-1,376	-1,312	-1,248	-1,184	-1,120	-1,056	0																		
Retire TY GR CR BR1-2 and MC1-2	-2,251	-2,160	-2,068	-1,977	-1,885	-1,793	-710																		
Total Capital																									
No Retirements	771,910	825,897	851,288	845,535	745,216	716,343	687,148	52,894	45,452	42,906	37,390	35,540	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY	763,459	817,471	842,887	837,197	736,940	708,126	678,988	51,130	43,773	41,312	35,882	34,117	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY and GR3	725,419	762,657	775,811	774,588	726,081	752,274	762,659	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 and BR3	789,687	774,985	751,623	739,885	692,925	719,115	729,134	44,080	37,012	34,840	29,698	28,222	28,342	24,730	20,598	18,334	17,123	16,121	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 and CR4	728,869	779,349	822,932	854,123	771,114	740,751	710,124	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 CR4 and CR6	797,153	782,437	757,969	746,120	699,043	725,112	735,008	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 CR4 CR6 and BR1-2	742,039	791,495	834,842	865,194	781,335	750,118	718,623	39,888	33,038	31,085	26,162	24,905	25,245	24,162	23,079	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 and CR	785,608	838,983	863,784	857,448	756,529	725,680	694,522	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 CR and GH3	786,775	769,718	742,847	728,971	699,769	724,946	733,447	40,181	33,234	31,183	26,162	24,807	25,048	21,556	17,546	15,403	14,313	11,613	5,135	4,897	4,659	4,421	4,000	3,489	253
Retire TY GR3 CR and GH1	752,351	773,666	757,406	744,848	733,283	777,713	804,151	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR and CR	751,969	801,213	843,688	873,835	792,294	760,727	728,881	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and MC4	773,276	758,094	739,460	767,740	725,423	736,286	719,460	48,351	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and TC1	805,847	790,554	765,491	755,524	728,070	772,348	795,263	44,290	37,293	35,533	34,114	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and GH4	764,160	747,396	727,124	753,991	730,017	740,549	721,078	40,925	33,972	31,916	26,890	25,529	25,766	22,269	18,253	16,105	15,341	12,691	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and MC3	802,756	787,106	761,698	751,560	723,940	768,456	792,237	44,459	41,752	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and GH2	765,048	748,187	727,818	754,593	730,733	741,184	721,628	41,615	34,581	32,444	27,338	25,896	26,052	22,474	18,378	16,149	14,973	12,154	5,232	4,152	214	0	0	0	0
Retire TY GR CR and MC1-2	782,872	784,638	769,283	761,098	714,878	747,172	761,711	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR BR1-2 and MC1-2	734,471	731,356	781,515	835,411	791,463	783,802	754,840	39,888	33,038	31,085	26,162	24,905	25,245	24,162	23,079	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Total Capital Delta																									
No Retirements																									
Retire TY	-8,452	-8,426	-8,401	-8,338	-8,277	-8,217	-8,160	-1,765	-1,679	-1,594	-1,508	-1,422	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and GR3	-38,039	-54,813	-67,076	-62,609	-10,858	44,148	83,670	-1,765	-1,679	-1,594	-1,508	-1,422	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and BR3	64,268	12,327	-24,188	-34,703	-33,156	-33,159	-33,525	-5,284	-5,082	-4,879	-4,676	-4,474	-4,271	-4,068	-3,865	-3,663	-3,460	-1,405	0	0	0	0	0	0	0
Retire TY GR3 and CR4	3,449	16,692	47,121	79,535	45,033	-11,523	-52,534	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 and CR6	68,284	3,088	-64,964	-108,003	-72,071	-15,638	24,883	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 CR6 and BR1-2	-55,114	9,058	76,873	119,073	82,292	25,005	-16,385	-9,477	-9,055	-8,634	-8,212	-7,790	-7,369	-4,636	-1,384	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR	-11,544	56,545	105,815	111,328	57,486	568	-40,486	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH3	1,166	-69,264	-120,936	-128,477	-56,760	-735	38,925	-9,183	-8,860	-8,536	-8,212	-7,889	-7,565	-7,241	-6,918	-6,594	-6,270	-5,913	-5,232	-4,152	-214	0	0	0	0
Retire TY GR3 CR and GH1	-33,257	-65,316	-106,378	-112,600	-23,246	52,032	109,629	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR	-33,639	-37,770	-20,096	16,387	35,765	35,046	34,359	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC4	21,307	-43,119	-104,228	-106,095	-66,872	-24,440	-9,421	-1,014	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and TC1	53,878	-10,658	-78,197	-118,311	-64,225	11,621	66,382	-5,075	-4,801	-4,186	-261	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH4	12,191	-53,817	-116,564	-119,844	-62,278	-20,178	-7,803	-8,440	-8,121	-7,803	-7,484	-7,166	-6,847	-6,529	-6,210	-5,892	-5,243	-4,835	0	0	0	0	0	0	0
Retire TY GR CR and MC3	50,787	-14,107	-81,991	-122,275	-68,355	7,730	63,356	-4,906	-341	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH2	13,079	-53,026	-115,870	-119,242	-61,562	-19,543	-7,253	-7,750	-7,512	-7,274	-7,037	-6,799	-6,561	-6,323	-6,086	-5,848	-5,610	-5,372	-5,135	-4,897	-4,659	-4,421	-4,000	-3,489	-253
Retire TY GR CR and MC1-2	30,903	-16,574	-74,405	-112,737	-77,417	-13,555	32,830	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR BR1-2 and MC1-2	-17,498	-69,857	-62,173	-38,424	-831	23,075	25,959	-9,477	-9,055	-8,634	-8,212	-7,790	-7,369	-4,636	-1,384	0	0	0	0	0	0	0	0	0	0
Retirement O&M Cost																									
No Retirements																									
Retire TY	0	0	0	0	0	0	0																		
Retire TY and GR3	0	0	0	0	0	0	0																		
Retire TY GR3 and BR3	0	0	0	0	0	0	0																		
Retire TY GR3 and CR4	0	0	0	0	0	0	0																		
Retire TY GR3 CR4 and CR6	0	0	0	0	0	0	0																		
Retire TY GR3 CR4 CR6 and BR1-2	0	0	0	0	0	0	0																		
Retire TY GR3 and CR	0	0	0	0	0	0	0																		
Retire TY GR3 CR and GH3	0	0	0	0	0	0	0																		

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Discount Rate:

	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058
Retire TY GR3 CR and GH1	0	0	0	0	0	0	0																		
Retire TY GR and CR	0	0	0	0	0	0	0																		
Retire TY GR CR and MC4	0	0	0	0	0	0	0																		
Retire TY GR CR and TC1	0	0	0	0	0	0	0																		
Retire TY GR CR and GH4	0	0	0	0	0	0	0																		
Retire TY GR CR and MC3	0	0	0	0	0	0	0																		
Retire TY GR CR and GH2	0	0	0	0	0	0	0																		
Retire TY GR CR and MC1-2	0	0	0	0	0	0	0																		
Retire TY GR CR BR1-2 and MC1-2	0	0	0	0	0	0	0																		
Retirement O&M Cost Delta																									
No Retirements																									
Retire TY	0	0	0	0	0	0	0																		
Retire TY and GR3	0	0	0	0	0	0	0																		
Retire TY GR3 and BR3	0	0	0	0	0	0	0																		
Retire TY GR3 and CR4	0	0	0	0	0	0	0																		
Retire TY GR3 CR4 and CR6	0	0	0	0	0	0	0																		
Retire TY GR3 CR4 CR6 and BR1-2	0	0	0	0	0	0	0																		
Retire TY GR3 and CR	0	0	0	0	0	0	0																		
Retire TY GR3 CR and GH3	0	0	0	0	0	0	0																		
Retire TY GR3 CR and GH1	0	0	0	0	0	0	0																		
Retire TY GR and CR	0	0	0	0	0	0	0																		
Retire TY GR CR and MC4	0	0	0	0	0	0	0																		
Retire TY GR CR and TC1	0	0	0	0	0	0	0																		
Retire TY GR CR and GH4	0	0	0	0	0	0	0																		
Retire TY GR CR and MC3	0	0	0	0	0	0	0																		
Retire TY GR CR and GH2	0	0	0	0	0	0	0																		
Retire TY GR CR and MC1-2	0	0	0	0	0	0	0																		
Retire TY GR CR BR1-2 and MC1-2	0	0	0	0	0	0	0																		
Existing Unit Fixed O&M																									
No Retirements	318,658	325,031	331,532	338,163	344,926	351,824	358,861																		
Retire TY	318,024	324,385	330,872	337,490	344,240	351,124	358,147																		
Retire TY and GR3	311,416	317,645	323,998	330,478	337,087	343,829	350,705																		
Retire TY GR3 and BR3	288,827	294,604	300,496	306,506	312,636	318,889	325,267																		
Retire TY GR3 and CR4	293,185	299,049	305,030	311,130	317,353	323,700	330,174																		
Retire TY GR3 CR4 and CR6	277,766	283,322	288,988	294,768	300,663	306,677	312,810																		
Retire TY GR3 CR4 CR6 and BR1-2	260,757	265,972	271,292	276,718	282,252	287,897	293,655																		
Retire TY GR3 and CR	258,380	263,547	268,818	274,194	279,678	285,272	290,977																		
Retire TY GR3 CR and GH3	239,472	244,261	249,146	254,129	259,212	264,396	269,684																		
Retire TY GR3 CR and GH1	231,150	235,773	240,488	245,298	250,204	255,208	260,312																		
Retire TY GR and CR	245,295	250,201	255,205	260,309	265,515	270,826	276,242																		
Retire TY GR CR and MC4	219,158	223,541	228,012	232,572	237,223	241,968	246,807																		
Retire TY GR CR and TC1	218,919	223,297	227,763	232,318	236,964	241,704	246,538																		
Retire TY GR CR and GH4	226,948	231,487	236,116	240,839	245,655	250,569	255,580																		
Retire TY GR CR and MC3	219,193	223,577	228,049	232,610	237,262	242,007	246,847																		
Retire TY GR CR and GH2	224,941	229,439	234,028	238,709	243,483	248,353	253,320																		
Retire TY GR CR and MC1-2	203,054	207,115	211,257	215,482	219,792	224,188	228,671																		
Retire TY GR CR BR1-2 and MC1-2	186,045	189,765	193,561	197,432	201,381	205,408	209,516																		
Existing Unit Fixed O&M Delta																									
No Retirements																									
Retire TY	-634	-647	-660	-673	-686	-700	-714																		
Retire TY and GR3	-6,608	-6,740	-6,875	-7,012	-7,153	-7,296	-7,442																		
Retire TY GR3 and BR3	-22,589	-23,041	-23,502	-23,972	-24,451	-24,940	-25,439																		
Retire TY GR3 and CR4	-18,232	-18,596	-18,968	-19,347	-19,734	-20,129	-20,532																		
Retire TY GR3 CR4 and CR6	-15,418	-15,727	-16,041	-16,362	-16,689	-17,023	-17,364																		
Retire TY GR3 CR4 CR6 and BR1-2	-17,009	-17,349	-17,696	-18,050	-18,411	-18,779	-19,155																		
Retire TY GR3 and CR	-19,387	-19,775	-20,170	-20,573	-20,985	-21,405	-21,833																		
Retire TY GR3 CR and GH3	-18,908	-19,286	-19,672	-20,065	-20,466	-20,876	-21,293																		
Retire TY GR3 CR and GH1	-27,230	-27,774	-28,330	-28,897	-29,474	-30,064	-30,665																		
Retire TY GR and CR	-13,084	-13,346	-13,613	-13,885	-14,163	-14,446	-14,735																		
Retire TY GR CR and MC4	-26,138	-26,660	-27,194	-27,737	-28,292	-28,858	-29,435																		
Retire TY GR CR and TC1	-26,377	-26,904	-27,442	-27,991	-28,551	-29,122	-29,704																		
Retire TY GR CR and GH4	-18,347	-18,714	-19,089	-19,470	-19,860	-20,257	-20,662																		
Retire TY GR CR and MC3	-26,102	-26,624	-27,156	-27,699	-28,253	-28,818	-29,395																		
Retire TY GR CR and GH2	-20,355	-20,762	-21,177	-21,600	-22,032	-22,473	-22,923																		
Retire TY GR CR and MC1-2	-42,242	-43,086	-43,948	-44,827	-45,724	-46,638	-47,571																		
Retire TY GR CR BR1-2 and MC1-2	-59,251	-60,436	-61,644	-62,877	-64,135	-65,417	-66,726																		
New Controls Fixed O&M																									
No Retirements	53,296	54,361	55,449	56,558	57,689	58,843	60,019																		
Retire TY	47,726	48,680	49,654	50,647	51,660	52,693	53,747																		
Retire TY and GR3	42,156	42,999	43,859	44,736	45,631	46,543	47,474																		
Retire TY GR3 and BR3	40,600	41,412	42,241	43,085	43,947	44,826	45,723																		
Retire TY GR3 and CR4	36,679	37,412	38,161	38,924	39,702	40,496	41,306																		
Retire TY GR3 CR4 and CR6	29,581	30,172	30,776	31,391	32,019	32,660	33,313																		
Retire TY GR3 CR4 CR6 and BR1-2	27,230	27,774	28,330	28,896	29,474	30,064	30,665																		

Discount Rate:

	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058
Retire TY GR3 and CR	23,802	24,278	24,763	25,259	25,764	26,279	26,805																		
Retire TY GR3 CR and GH3	21,901	22,339	22,786	23,241	23,706	24,180	24,664																		
Retire TY GR3 CR and GH1	21,880	22,318	22,764	23,219	23,684	24,158	24,641																		
Retire TY GR and CR	16,630	16,962	17,301	17,648	18,000	18,360	18,728																		
Retire TY GR CR and MC4	14,365	14,653	14,946	15,244	15,549	15,860	16,178																		
Retire TY GR CR and TC1	15,191	15,495	15,805	16,121	16,443	16,772	17,108																		
Retire TY GR CR and GH4	14,789	15,084	15,386	15,694	16,008	16,328	16,654																		
Retire TY GR CR and MC3	14,691	14,984	15,284	15,590	15,902	16,220	16,544																		
Retire TY GR CR and GH2	14,169	14,452	14,742	15,036	15,337	15,644	15,957																		
Retire TY GR CR and MC1-2	12,103	12,345	12,592	12,843	13,100	13,362	13,630																		
Retire TY GR CR BR1-2 and MC1-2	9,751	9,946	10,145	10,348	10,555	10,766	10,982																		
New Controls Fixed O&M Delta																									
No Retirements																									
Retire TY	-5,570	-5,681	-5,795	-5,911	-6,029	-6,150	-6,273																		
Retire TY and GR3	-5,570	-5,681	-5,795	-5,911	-6,029	-6,150	-6,273																		
Retire TY GR3 and BR3	-1,555	-1,586	-1,618	-1,650	-1,683	-1,717	-1,751																		
Retire TY GR3 and CR4	-5,477	-5,586	-5,698	-5,812	-5,928	-6,047	-6,168																		
Retire TY GR3 CR4 and CR6	-7,098	-7,240	-7,385	-7,532	-7,683	-7,837	-7,994																		
Retire TY GR3 CR4 CR6 and BR1-2	-2,351	-2,398	-2,446	-2,495	-2,545	-2,596	-2,648																		
Retire TY GR3 and CR	-5,779	-5,895	-6,013	-6,133	-6,255	-6,381	-6,508																		
Retire TY GR3 CR and GH3	-1,901	-1,939	-1,978	-2,017	-2,058	-2,099	-2,141																		
Retire TY GR3 CR and GH1	-1,921	-1,960	-1,999	-2,039	-2,080	-2,121	-2,164																		
Retire TY GR and CR	-7,172	-7,315	-7,462	-7,611	-7,763	-7,918	-8,077																		
Retire TY GR CR and MC4	-2,264	-2,310	-2,356	-2,403	-2,451	-2,500	-2,550																		
Retire TY GR CR and TC1	-1,439	-1,467	-1,497	-1,527	-1,557	-1,588	-1,620																		
Retire TY GR CR and GH4	-1,841	-1,878	-1,915	-1,954	-1,993	-2,033	-2,073																		
Retire TY GR CR and MC3	-1,939	-1,978	-2,017	-2,058	-2,099	-2,141	-2,184																		
Retire TY GR CR and GH2	-2,461	-2,510	-2,560	-2,611	-2,663	-2,717	-2,771																		
Retire TY GR CR and MC1-2	-4,527	-4,618	-4,710	-4,804	-4,900	-4,998	-5,098																		
Retire TY GR CR BR1-2 and MC1-2	-6,878	-7,016	-7,156	-7,299	-7,445	-7,594	-7,746																		
Total Revenue Requirements																									
No Retirements	6,277,871	6,628,231	6,920,525	7,213,276	7,464,703	7,749,697	8,117,637	52,894	45,452	42,906	37,390	35,540	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY	6,271,840	6,624,482	6,910,139	7,201,285	7,454,151	7,739,561	8,109,496	51,130	43,773	41,312	35,882	34,117	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY and GR3	6,231,645	6,569,719	6,843,177	7,140,709	7,456,718	7,799,261	8,177,720	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 and BR3	6,278,009	6,555,187	6,841,378	7,147,491	7,474,388	7,822,576	8,162,945	44,080	37,012	34,840	29,698	28,222	28,342	24,730	20,598	18,334	17,123	16,121	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 and CR4	6,196,766	6,541,954	6,907,894	7,193,395	7,456,583	7,738,289	8,104,280	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 CR4 and CR6	6,255,241	6,528,748	6,814,032	7,115,438	7,431,832	7,786,695	8,150,505	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 CR4 CR6 and BR1-2	6,216,577	6,561,639	6,931,676	7,214,426	7,477,070	7,764,392	8,122,899	39,888	33,038	31,085	26,162	24,905	25,245	24,162	23,079	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 and CR	6,262,693	6,614,813	6,896,402	7,189,735	7,436,454	7,726,363	8,093,076	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 CR and GH3	6,255,417	6,530,180	6,815,914	7,116,692	7,448,256	7,812,909	8,171,854	40,181	33,234	31,183	26,162	24,807	25,048	21,556	17,546	15,403	14,313	11,613	5,135	4,897	4,659	4,421	4,000	3,489	253
Retire TY GR3 CR and GH1	6,279,874	6,533,304	6,826,122	7,130,054	7,487,161	7,861,735	8,227,936	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR and CR	6,194,946	6,538,549	6,903,940	7,189,946	7,450,044	7,737,275	8,097,868	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and MC4	6,253,575	6,537,991	6,833,189	7,189,155	7,495,883	7,786,756	8,166,353	48,351	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and TC1	6,281,738	6,554,812	6,850,601	7,152,963	7,499,222	7,871,483	8,240,081	44,290	37,293	35,533	34,114	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and GH4	6,256,926	6,536,287	6,826,656	7,188,282	7,533,178	7,805,953	8,174,539	40,925	33,972	31,916	26,890	25,529	25,766	22,269	18,253	16,105	15,341	12,691	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and MC3	6,268,903	6,538,603	6,835,663	7,142,152	7,483,614	7,857,711	8,225,522	44,459	41,752	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and GH2	6,266,201	6,545,761	6,846,997	7,194,303	7,545,212	7,811,981	8,173,902	41,615	34,581	32,444	27,338	25,896	26,052	22,474	18,378	16,149	14,973	12,154	5,232	4,152	214	0	0	0	0
Retire TY GR CR and MC1-2	6,296,738	6,567,461	6,864,659	7,178,929	7,497,843	7,862,553	8,233,942	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR BR1-2 and MC1-2	6,243,633	6,540,172	6,919,752	7,308,428	7,552,617	7,851,573	8,221,707	39,888	33,038	31,085	26,162	24,905	25,245	24,162	23,079	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Total Revenue Requirements Delta																									
No Retirements																									
Retire TY	-6,031	-3,748	-10,386	-11,991	-10,552	-10,136	-8,141	-1,765	-1,679	-1,594	-1,508	-1,422	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and GR3	-40,194	-54,763	-66,961	-60,576	2,568	59,700	68,224	-1,765	-1,679	-1,594	-1,508	-1,422	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and BR3	46,363	-14,532	-1,800	6,782	17,669	23,315	-14,775	-5,284	-5,082	-4,879	-4,676	-4,474	-4,271	-4,068	-3,865	-3,663	-3,460	-1,405	0	0	0	0	0	0	0
Retire TY GR3 and CR4	-34,879	-27,766	64,717	52,686	-136	-60,972	-73,440	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 and CR6	58,475	-13,206	-93,862	-77,957	-24,751	48,406	46,225	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 CR6 and BR1-2	-38,665	32,891	117,644	98,988	45,238	-22,303	-27,606	-9,477	-9,055	-8,634	-8,212	-7,790	-7,369	-4,636	-1,384	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR	7,451	86,065	82,370	74,297	4,622	-60,332	-57,429	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH3	-7,275	-84,633	-80,488	-73,043	11,802	86,546	78,778	-9,183	-8,860	-8,536	-8,212	-7,889	-7,565	-7,241	-6,918	-6,594	-6,270	-5,913	-5,232	-4,152	-214	0	0	0	0
Retire TY GR3 CR and GH1	17,181	-81,509	-70,280	-59,681	50,707	135,372	134,860	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR	-67,746	-76,264	7,538	211	13,590	10,912	4,792	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC4	58,629	-558	-70,751	-791	45,839	49,481	68,486	-1,014	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and TC1	86,792	16,263	-53,338	-36,983	49,178	134,208	142,214	-5,075	-4,801	-4,186	-261	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH4	61,980	-2,262	-77,284	-1,665	83,133	68,678	76,671	-8,440	-8,121	-7,803	-7,484	-7,166	-6,847	-6,529	-6,210	-5,892	-5,243	-4,835	0	0	0	0	0	0	0
Retire TY GR CR and MC3	73,957	54	-68,277	-47,795	33,570	120,436	127,654	-4,906	-341	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH2	71,255	7,211	-56,942	4,356	95,167	74,706	76,035	-7,750	-7,512	-7,274	-7,037	-6,799	-6,561	-6,323	-6,086	-5,848	-5,610	-5,372	-5,135	-4,897	-4,659	-4,421	-4,000	-3,489	-253
Retire TY GR CR and MC1-2	101,792	28,911	-39,280	-11,017	47,798	125,278	136,075	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR BR1-2 and MC1-2	48,686	1,622	15,812	118,482	102,572	114,298	123,839	-9,477	-9,055	-8,634	-8,212	-7,790	-7,369	-4,636	-1,384	0	0	0	0	0	0	0	0	0	0
Total Revenue Requirements Cumulative D																									
No Retirements																									
Retire TY	-131,789	-135,537	-145,924	-157,915	-168,467	-178,603	-186,744																		
Retire TY and GR3	-207,665	-262,428	-329,390	-389,966	-387,398	-327,698	-259,474																		
Retire TY GR3 and BR3	627,001	612,469	610,669	617,451	635,120	658,434	643,659																		
Retire TY GR3 and CR4	-404,172	-431,938	-367,221	-314,535	-314,670	-375,643	-449,083																		

Discount Rate:

	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058
Retire TY GR3 CR4 and CR6	-349,934	-363,140	-457,002	-534,959	-559,710	-511,304	-465,079																		
Retire TY GR3 CR4 CR6 and BR1-2	-118,872	-85,981	31,663	130,651	175,890	153,586	125,980																		
Retire TY GR3 and CR	-559,838	-473,773	-391,403	-317,106	-312,484	-372,816	-430,244																		
Retire TY GR3 CR and GH3	632,830	548,197	467,709	394,666	406,468	493,014	571,792																		
Retire TY GR3 CR and GH1	356,539	275,030	204,750	145,069	195,776	331,148	466,007																		
Retire TY GR and CR	-250,444	-326,708	-319,170	-318,959	-305,368	-294,457	-289,665																		
Retire TY GR CR and MC4	720,790	720,232	649,481	648,689	694,528	744,009	812,495																		
Retire TY GR CR and TC1	1,167,584	1,183,847	1,130,508	1,093,525	1,142,703	1,276,911	1,419,124																		
Retire TY GR CR and GH4	1,124,385	1,122,122	1,044,838	1,043,174	1,126,307	1,194,985	1,271,656																		
Retire TY GR CR and MC3	753,152	753,206	684,929	637,135	670,704	791,140	918,795																		
Retire TY GR CR and GH2	1,207,248	1,214,459	1,157,517	1,161,873	1,257,041	1,331,747	1,407,782																		
Retire TY GR CR and MC1-2	*642,122*	*671,034*	*631,753*	*620,736*	*668,535*	*793,812*	*929,887*																		
Retire TY GR CR BR1-2 and MC1-2	831,867	833,490	849,302	967,784	1,070,356	1,184,655	1,308,494																		

Discount Rate:

	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078
New Unit Capital and Production Cost																				
No Retirements																				
Retire TY																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
Production Cost																				
No Retirements																				
Retire TY																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
Production Cost Delta																				
No Retirements																				
Retire TY																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
New Unit Capital																				
No Retirements																				
Retire TY																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				

Discount Rate:

	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
New Unit Capital Delta																				
No Retirements																				
Retire TY																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
New Controls Capital																				
No Retirements	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and GR3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and BR3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 and CR6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 CR6 and BR1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and TC1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR BR1-2 and MC1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
New Controls Capital Delta																				
No Retirements																				
Retire TY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and GR3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and BR3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 and CR6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 CR6 and BR1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and TC1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR BR1-2 and MC1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTP Capital																				
No Retirements																				
Retire TY																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				

Discount Rate:

	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
MTP Capital Delta																				
No Retirements																				
Retire TY																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
Landfill Capital																				
No Retirements																				
Retire TY																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
Landfill Capital Delta																				
No Retirements																				
Retire TY																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
Water Capital																				
No Retirements																				
Retire TY																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				

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Discount Rate:

	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
Water Capital Delta																				
No Retirements																				
Retire TY																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
Total Capital																				
No Retirements	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and GR3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and BR3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 and CR6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 CR6 and BR1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and TC1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR BR1-2 and MC1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Capital Delta																				
No Retirements																				
Retire TY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and GR3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and BR3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 and CR6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 CR6 and BR1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and TC1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR BR1-2 and MC1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retirement O&M Cost																				
No Retirements																				
Retire TY																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				

Discount Rate:

	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
Retirement O&M Cost Delta																				
No Retirements																				
Retire TY																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
Existing Unit Fixed O&M																				
No Retirements																				
Retire TY																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
Existing Unit Fixed O&M Delta																				
No Retirements																				
Retire TY																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
New Controls Fixed O&M																				
No Retirements																				
Retire TY																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				

Discount Rate:

	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
New Controls Fixed O&M Delta																				
No Retirements																				
Retire TY																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
Total Revenue Requirements																				
No Retirements	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and GR3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and BR3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 and CR6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 CR6 and BR1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and TC1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR BR1-2 and MC1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Revenue Requirements Delta																				
No Retirements																				
Retire TY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and GR3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and BR3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 and CR6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 CR6 and BR1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and TC1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR BR1-2 and MC1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Revenue Requirements Cumulative D																				
No Retirements																				
Retire TY																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				

Discount Rate:

	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
Retire TY GR CR BR1-2 and MC1-2																				

Station	Unit		2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
BR	BR1	BR1FFP 0	0	238	3,127	7,278	12,105	12,775	12,123	11,534	10,999	10,472	9,946	9,420	8,894	8,368	7,842	7,483	7,291	7,099
BR	BR1	BR1SAM 0	0	0	0	231	521	550	522	497	474	452	429	407	384	362	339	324	315	307
BR	BR2	BR2FFP 0	0	252	3,379	7,865	13,414	13,865	13,156	12,514	11,931	11,357	10,783	10,210	9,636	9,062	8,488	8,095	7,881	7,668
BR	BR2	BR2SAM 0	0	0	0	231	534	553	525	499	476	453	431	408	385	362	340	324	315	307
BR	BR3	BR3FFP 0	0	0	204	2,854	7,595	13,437	14,120	13,404	12,757	12,171	11,595	11,019	10,443	9,867	9,290	8,714	8,325	8,122
GH	GH1	GH1FFP 0	0	64	4,332	10,157	17,736	19,154	18,156	17,246	16,412	15,591	14,769	13,948	13,127	12,305	11,484	10,897	10,545	10,193
GH	GH1	GH1SAM 0	0	122	562	1,006	1,964	2,121	2,010	1,909	1,817	1,726	1,635	1,544	1,453	1,362	1,271	1,206	1,167	1,128
GH	GH2	GH2FFP 0	0	0	2,787	7,280	15,016	18,298	17,569	16,777	16,056	15,369	14,684	13,998	13,313	12,627	11,942	11,257	10,791	10,556
GH	GH2	GH2SAM 0	0	11	724	984	935	891	851	814	779	744	709	674	639	605	570	546	535	523
GH	GH3	GH3FFP 0	0	0	0	3,571	8,804	18,270	21,813	20,853	19,901	19,030	18,199	17,369	16,538	15,708	14,877	14,047	13,216	12,647
GH	GH3	GH3SAM 0	0	115	565	1,578	1,935	1,853	1,769	1,691	1,618	1,544	1,471	1,397	1,324	1,250	1,177	1,126	1,099	1,073
GH	GH4	GH4FFP 0	0	0	0	2,843	7,668	14,952	21,319	20,238	19,257	18,361	17,541	16,757	15,973	15,188	14,404	13,619	12,835	12,050
GH	GH4	GH4SAM 0	0	122	527	974	1,948	1,967	1,872	1,786	1,707	1,631	1,555	1,479	1,403	1,328	1,252	1,176	1,124	1,096
MC	MC1	MC1FGD 0	0	0	2,360	7,268	12,372	21,934	23,856	22,601	21,453	20,399	19,360	18,320	17,281	16,242	15,203	14,164	13,412	12,949
MC	MC1	MC1FFP 0	0	0	1,271	5,238	9,364	17,796	19,361	18,343	17,414	16,559	15,717	14,875	14,032	13,190	12,348	11,506	10,896	10,520
MC	MC1	MC1SAM 0	0	0	0	42	560	1,131	1,232	1,168	1,109	1,055	1,001	948	895	841	788	735	696	672
MC	MC2	MC2FGD 0	0	0	2,361	7,270	12,377	23,214	24,770	23,450	22,238	21,119	20,015	18,911	17,806	16,702	15,598	14,494	13,677	13,148
MC	MC2	MC2FFP 0	0	0	1,215	5,051	9,134	18,426	19,666	18,620	17,659	16,772	15,896	15,021	14,145	13,270	12,395	11,519	10,871	10,450
MC	MC2	MC2SAM 0	0	0	0	42	560	1,197	1,279	1,211	1,149	1,092	1,035	978	922	865	808	752	710	682
MC	MC3	MC3FGDU 0	0	0	646	3,668	6,975	9,472	9,135	8,699	8,295	7,908	7,522	7,135	6,748	6,362	5,975	5,589	5,303	5,124
MC	MC3	MC3FGDR 0	0	0	0	0	39	175	207	197	187	179	170	162	154	145	137	128	121	115
MC	MC3	MC3FFP 0	0	0	0	3,730	8,326	13,896	18,276	17,601	16,757	15,977	15,228	14,480	13,732	12,985	12,237	11,489	10,742	10,190
MC	MC3	MC3SAM 0	0	0	734	1,992	2,100	1,997	1,901	1,813	1,728	1,642	1,557	1,472	1,387	1,302	1,217	1,155	1,116	1,077
MC	MC4	MC4FGD 0	0	379	6,987	15,193	21,072	28,573	27,555	26,231	25,008	23,834	22,662	21,491	20,319	19,147	17,976	16,804	15,940	15,402
MC	MC4	MC4SCR 0	0	105	667	724	688	655	625	596	566	537	508	479	449	420	399	386	372	359
MC	MC4	MC4FFP 0	0	377	5,055	10,178	14,629	19,836	19,129	18,210	17,361	16,546	15,733	14,919	14,106	13,293	12,479	11,666	11,066	10,692
MC	MC4	MC4SAM 0	0	0	0	578	1,620	2,201	2,123	2,022	1,929	1,839	1,749	1,660	1,570	1,480	1,391	1,301	1,235	1,193
TC	TC1	TC1FFP 0	0	0	0	2,200	5,745	11,967	15,834	15,223	14,502	13,838	13,200	12,564	11,927	11,291	10,654	10,018	9,381	8,918
CR	CR4	CR4FGD 0	0	394	3,222	13,574	27,295	25,773	24,370	23,071	21,861	20,666	19,471	18,276	17,081	15,886	14,691	13,773	13,130	12,488
CR	CR4	CR4SCR 0	64	390	2,395	6,163	10,786	10,183	9,627	9,112	8,633	8,160	7,687	7,214	6,740	6,267	5,794	5,431	5,177	4,924
CR	CR4	CR4FF 0	0	280	1,715	3,329	5,526	5,216	4,930	4,666	4,421	4,178	3,935	3,692	3,450	3,207	2,964	2,778	2,648	2,519
CR	CR4	CR4PAC 0	0	0	0	235	386	365	345	327	310	293	276	259	242	225	208	195	186	177
CR	CR4	CR4LIME 0	0	0	0	259	427	403	381	361	342	323	305	286	267	249	230	216	206	195
CR	CR5	CR5FGD 0	0	359	3,311	14,658	29,304	27,663	26,148	24,742	23,429	22,132	20,835	19,538	18,241	16,944	15,647	14,641	13,924	13,207
CR	CR5	CR5SCR 0	63	388	2,719	6,475	11,557	10,908	10,308	9,752	9,234	8,721	8,208	7,696	7,183	6,670	6,158	5,760	5,478	5,196
CR	CR5	CR5FF 0	0	300	1,823	3,531	5,992	5,654	5,343	5,054	4,785	4,519	4,253	3,987	3,721	3,455	3,189	2,983	2,837	2,691
CR	CR5	CR5PAC 0	0	0	0	251	423	399	378	357	338	320	301	282	263	245	226	212	201	191
CR	CR5	CR5LIME 0	0	0	0	278	468	441	417	395	374	353	333	312	291	271	250	234	222	211
CR	CR6	CR6FGD 0	0	346	3,887	18,407	35,115	33,170	31,385	29,739	28,213	26,706	25,199	23,692	22,185	20,678	19,171	18,033	17,265	16,496
CR	CR6	CR6SCR 0	79	1,294	4,201	8,457	14,206	13,414	12,689	12,019	11,399	10,787	10,175	9,563	8,951	8,339	7,727	7,266	6,956	6,646
CR	CR6	CR6FF 0	0	394	2,364	4,540	7,252	6,848	6,477	6,136	5,819	5,507	5,194	4,882	4,569	4,257	3,944	3,709	3,551	3,393
CR	CR6	CR6PAC 0	0	0	0	352	558	527	499	473	448	424	401	377	353	329	305	287	275	262
CR	CR6	CR6LIME 0	0	0	0	391	619	585	553	525	498	471	445	418	391	365	338	318	305	291
GR	GR3	GR3SFF 0	0	0	1,323	4,035	5,553	5,254	4,983	4,739	4,516	4,297	4,078	3,859	3,640	3,421	3,202	3,050	2,967	2,884
GR	GR3	GR3PAC 0	0	0	0	112	154	145	138	131	125	119	113	107	101	95	89	85	82	80
GR	GR4	GR4SFF 0	0	0	1,885	5,750	8,517	8,050	7,626	7,237	6,881	6,529	6,177	5,825	5,473	5,122	4,770	4,515	4,356	4,198
GR	GR4	GR4PAC 0	0	0	0	160	235	223	211	200	190	181	171	161	152	142	132	125	121	116

Station	Unit		2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045
BR	BR1	BR1FFP 0	6,908	6,716	6,525	6,333	6,141	5,950	5,758	5,566	5,375	5,183	4,991	4,800	4,608	4,417	4,225	4,033	3,842	3,650
BR	BR1	BR1SAM 0	299	291	282	274	266	257	249	241	232	224	216	208	199	191	183	174	166	158
BR	BR2	BR2FFP 0	7,455	7,242	7,028	6,815	6,602	6,388	6,175	5,962	5,749	5,535	5,322	5,109	4,895	4,682	4,469	4,256	4,042	3,829
BR	BR2	BR2SAM 0	298	290	281	273	264	256	247	239	230	222	213	205	196	187	179	170	162	153
BR	BR3	BR3FFP 0	7,920	7,717	7,514	7,311	7,109	6,906	6,703	6,501	6,298	6,095	5,893	5,690	5,487	5,284	5,082	4,879	4,676	4,474
GH	GH1	GH1FFP 0	9,841	9,489	9,137	8,785	8,433	8,081	7,729	7,377	7,025	6,673	6,321	5,969	2,424	0	0	0	0	0
GH	GH1	GH1SAM 0	1,089	1,050	1,011	972	933	894	855	816	777	738	699	661	268	0	0	0	0	0
GH	GH2	GH2FFP 0	10,330	10,104	9,878	9,652	9,425	9,199	8,973	8,747	8,521	8,295	8,069	7,843	7,617	7,391	7,165	6,939	6,713	6,486
GH	GH2	GH2SAM 0	511	500	488	476	464	453	441	429	418	406	394	383	371	359	348	336	324	312
GH	GH3	GH3FFP 0	12,344	12,047	11,750	11,452	11,155	10,858	10,561	10,263	9,966	9,669	9,372	9,075	8,777	8,480	8,183	7,886	7,588	7,291
GH	GH3	GH3SAM 0	1,047	1,020	994	967	941	915	888	862	835	809	782	756	730	703	677	650	624	598
GH	GH4	GH4FFP 0	11,513	11,223	10,932	10,642	10,352	10,061	9,771	9,481	9,190	8,900	8,610	8,319	8,029	7,739	7,448	7,158	6,867	6,577
GH	GH4	GH4SAM 0	1,068	1,039	1,011	983	955	927	899	870	842	814	786	758	730	701	673	645	617	589
MC	MC1	MC1FGD 0	12,485	12,022	11,558	11,095	10,631	10,167	9,704	9,240	8,777	8,313	7,850	3,188	0	0	0	0	0	0
MC	MC1	MC1FFP 0	10,143	9,767	9,390	9,013	8,637	8,260	7,884	7,507	7,130	6,754	6,377	2,590	0	0	0	0	0	0
MC	MC1	MC1SAM 0	648	624	600	576	552	528	504	480	455	431	407	165	0	0	0	0	0	0
MC	MC2	MC2FGD 0	12,618	12,088	11,558	11,028	10,499	9,969	9,439	8,909	2,908	0	0	0	0	0	0	0	0	0
MC	MC2	MC2FFP 0	10,029	9,608	9,187	8,766	8,344	7,923	7,502	7,081	2,311	0	0	0	0	0	0	0	0	0
MC	MC2	MC2SAM 0	655	627	600	572	545	517	490	462	151	0	0	0	0	0	0	0	0	0
MC	MC3	MC3FGDU 0	4,950	4,777	4,603	4,429	4,256	4,082	3,909	3,735	3,561	3,388	3,214	3,040	2,653	188	0	0	0	0
MC	MC3	MC3FGDR 0	111	107	104	100	96	92	88	85	81	77	73	69	64	44	0	0	0	0
MC	MC3	MC3FFP 0	9,844	9,510	9,175	8,841	8,506	8,172	7,837	7,503	7,168	6,834	6,499	6,165	5,830	4,673	341	0	0	0
MC	MC3	MC3SAM 0	1,039	1,000	961	923	884	846	807	768	730	691	652	213	0	0	0	0	0	0
MC	MC4	MC4FGD 0	14,880	14,358	13,836	13,314	12,792	12,270	11,748	11,226	10,705	10,183	9,661	9,139	7,976	573	0	0	0	0
MC	MC4	MC4SCR 0	346	332	319	306	292	279	266	252	239	226	92	0	0	0	0	0	0	0
MC	MC4	MC4FFP 0	10,330	9,968	9,605	9,243	8,881	8,518	8,156	7,794	7,431	7,069	6,707	6,344	5,537	398	0	0	0	0
MC	MC4	MC4SAM 0	1,153	1,112	1,072	1,031	991	951	910	870	829	789	748	708	618	44	0	0	0	0
TC	TC1	TC1FFP 0	8,637	8,363	8,089	7,815	7,541	7,267	6,993	6,719	6,445	6,171	5,897	5,623	5,349	5,075	4,801	4,186	261	0
CR	CR4	CR4FGD 0	11,845	11,203	10,560	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR4	CR4SCR 0	4,671	4,417	4,164	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR4	CR4FF 0	2,389	2,260	2,130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR4	CR4PAC 0	168	159	150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR4	CR4LIME 0	185	175	165	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR5	CR5FGD 0	12,490	11,774	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR5	CR5SCR 0	4,914	4,632	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR5	CR5FF 0	2,545	2,399	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR5	CR5PAC 0	180	170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR5	CR5LIME 0	199	188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR6	CR6FGD 0	15,727	14,959	14,190	13,421	12,653	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR6	CR6SCR 0	6,337	6,027	5,717	5,408	5,098	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR6	CR6FF 0	3,235	3,077	2,919	2,761	2,602	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR6	CR6PAC 0	250	238	226	213	201	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR6	CR6LIME 0	278	264	250	237	223	0	0	0	0	0	0	0	0	0	0	0	0	0
GR	GR3	GR3SFF 0	2,800	2,717	2,634	2,550	2,467	2,384	2,300	2,217	2,134	2,050	1,967	1,884	1,800	1,717	1,634	1,550	1,467	1,384
GR	GR3	GR3PAC 0	78	75	73	71	68	66	64	62	59	57	55	52	50	48	45	43	41	38
GR	GR4	GR4SFF 0	4,040	3,881	3,723	3,565	3,407	3,248	3,090	2,932	2,773	2,615	0	0	0	0	0	0	0	0
GR	GR4	GR4PAC 0	112	108	103	99	94	90	86	81	77	73	0	0	0	0	0	0	0	0

Station	Unit		2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059
BR	BR1	BR1FFP 0	3,458	3,267	1,327	0	0	0	0	0	0	0	0	0	0	0
BR	BR1	BR1SAM 0	150	141	57	0	0	0	0	0	0	0	0	0	0	0
BR	BR2	BR2FFP 0	3,616	1,180	0	0	0	0	0	0	0	0	0	0	0	0
BR	BR2	BR2SAM 0	145	47	0	0	0	0	0	0	0	0	0	0	0	0
BR	BR3	BR3FFP 0	4,271	4,068	3,865	3,663	3,460	1,405	0	0	0	0	0	0	0	0
GH	GH1	GH1FFP 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GH	GH1	GH1SAM 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GH	GH2	GH2FFP 0	6,260	6,034	5,808	5,582	5,356	5,130	4,904	4,678	4,452	4,226	4,000	3,489	253	0
GH	GH2	GH2SAM 0	301	289	277	266	254	242	231	219	207	196	0	0	0	0
GH	GH3	GH3FFP 0	6,994	6,697	6,400	6,102	5,805	5,508	5,211	4,152	214	0	0	0	0	0
GH	GH3	GH3SAM 0	571	545	518	492	465	405	21	0	0	0	0	0	0	0
GH	GH4	GH4FFP 0	6,287	5,996	5,706	5,416	5,125	4,835	0	0	0	0	0	0	0	0
GH	GH4	GH4SAM 0	561	532	504	476	117	0	0	0	0	0	0	0	0	0
MC	MC1	MC1FGD 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC1	MC1FFP 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC1	MC1SAM 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC2	MC2FGD 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC2	MC2FFP 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC2	MC2SAM 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC3	MC3FGDU 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC3	MC3FGDR 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC3	MC3FFP 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC3	MC3SAM 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC4	MC4FGD 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC4	MC4SCR 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC4	MC4FFP 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC4	MC4SAM 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TC	TC1	TC1FFP 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR4	CR4FGD 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR4	CR4SCR 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR4	CR4FF 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR4	CR4PAC 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR4	CR4LIME 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR5	CR5FGD 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR5	CR5SCR 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR5	CR5FF 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR5	CR5PAC 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR5	CR5LIME 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR6	CR6FGD 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR6	CR6SCR 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR6	CR6FF 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR6	CR6PAC 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR6	CR6LIME 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GR	GR3	GR3SFF 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GR	GR3	GR3PAC 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GR	GR4	GR4SFF 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GR	GR4	GR4PAC 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

		2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
	Retirement Cost																	
	All Units	0	0	0	0	0	0	2100	0	0	0	0	0	0	0	0	0	0
	2% Escalation Rate																	
	Unit Costs ($000)																	
BR	BR1		3,816	4,811	3,969	4,049	4,130	4,212	4,296	4,382	4,470	4,559	4,651	4,744	4,838	4,935	5,034	5,135
BR	BR2		6,633	7,160	7,253	7,398	7,546	7,697	7,851	8,008	8,168	8,331	8,498	8,668	8,841	9,018	9,199	9,383
BR	BR3		15,885	20,876	14,904	15,202	15,506	15,816	16,132	16,455	16,784	17,120	17,462	17,811	18,167	18,531	18,901	19,279
CR	CR4		14,372	9,218	12,029	12,269	12,515	12,765	13,020	13,281	13,546	13,817	14,094	14,375	14,663	14,956	15,255	15,560
CR	CR5		11,842	9,889	12,791	13,047	13,308	13,574	13,845	14,122	14,405	14,693	14,987	15,286	15,592	15,904	16,222	16,546
CR	CR6		10,666	11,619	10,173	10,376	10,584	10,795	11,011	11,231	11,456	11,685	11,919	12,157	12,400	12,648	12,901	13,159
GH	GH1		17,829	19,141	17,966	18,325	18,691	19,065	19,447	19,835	20,232	20,637	21,050	21,471	21,900	22,338	22,785	23,240
GH	GH2		12,225	18,498	13,429	13,698	13,972	14,251	14,536	14,827	15,124	15,426	15,735	16,049	16,370	16,698	17,032	17,372
GH	GH3		17,961	13,501	12,475	12,724	12,979	13,238	13,503	13,773	14,049	14,330	14,616	14,909	15,207	15,511	15,821	16,138
GH	GH4		11,533	13,496	12,105	12,347	12,594	12,846	13,103	13,365	13,632	13,905	14,183	14,467	14,756	15,051	15,352	15,659
GR	GR3		4,270	5,792	4,360	4,447	4,536	4,627	4,719	4,813	4,910	5,008	5,108	5,210	5,314	5,421	5,529	5,640
GR	GR4		7,338	6,924	8,633	8,805	8,982	9,161	9,344	9,531	9,722	9,916	10,115	10,317	10,523	10,734	10,949	11,167
MC	MC1		11,892	17,333	12,669	12,923	13,181	13,445	13,714	13,988	14,268	14,553	14,844	15,141	15,444	15,753	16,068	16,389
MC	MC2		16,179	11,941	15,201	15,505	15,815	16,131	16,454	16,783	17,118	17,461	17,810	18,166	18,530	18,900	19,278	19,664
MC	MC3		18,313	14,238	17,221	17,566	17,917	18,275	18,641	19,014	19,394	19,782	20,177	20,581	20,993	21,412	21,841	22,278
MC	MC4		16,531	18,981	17,245	17,590	17,942	18,300	18,666	19,040	19,421	19,809	20,205	20,609	21,021	21,442	21,871	22,308
TC	TC1		17,205	15,170	17,403	17,751	18,106	18,468	18,837	19,214	19,598	19,990	20,390	20,798	21,214	21,638	22,071	22,512
TY	TY3		410	416	418	427	435	444	453	462	471	480	490	500	510	520	530	541

		2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
	Retirement Cost														
	All Units	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2% Escalation Rate														
	Unit Costs ($000)														
BR	BR1	5,237	5,342	5,449	5,558	5,669	5,782	5,898	6,016	6,136	6,259	6,384	6,512	6,642	6,775
BR	BR2	9,570	9,762	9,957	10,156	10,359	10,566	10,778	10,993	11,213	11,437	11,666	11,899	12,137	12,380
BR	BR3	19,665	20,058	20,460	20,869	21,286	21,712	22,146	22,589	23,041	23,502	23,972	24,451	24,940	25,439
CR	CR4	15,872	16,189	16,513	16,843	17,180	17,524	17,874	18,232	18,596	18,968	19,347	19,734	20,129	20,532
CR	CR5	16,877	17,215	17,559	17,910	18,269	18,634	19,007	19,387	19,775	20,170	20,573	20,985	21,405	21,833
CR	CR6	13,423	13,691	13,965	14,244	14,529	14,820	15,116	15,418	15,727	16,041	16,362	16,689	17,023	17,364
GH	GH1	23,705	24,179	24,663	25,156	25,659	26,172	26,696	27,230	27,774	28,330	28,897	29,474	30,064	30,665
GH	GH2	17,720	18,074	18,436	18,804	19,181	19,564	19,955	20,355	20,762	21,177	21,600	22,032	22,473	22,923
GH	GH3	16,460	16,790	17,125	17,468	17,817	18,174	18,537	18,908	19,286	19,672	20,065	20,466	20,876	21,293
GH	GH4	15,973	16,292	16,618	16,950	17,289	17,635	17,988	18,347	18,714	19,089	19,470	19,860	20,257	20,662
GR	GR3	5,753	5,868	5,985	6,105	6,227	6,351	6,478	6,608	6,740	6,875	7,012	7,153	7,296	7,442
GR	GR4	11,391	11,619	11,851	12,088	12,330	12,576	12,828	13,084	13,346	13,613	13,885	14,163	14,446	14,735
MC	MC1	16,717	17,051	17,392	17,740	18,095	18,457	18,826	19,202	19,586	19,978	20,378	20,785	21,201	21,625
MC	MC2	20,057	20,458	20,867	21,285	21,710	22,145	22,587	23,039	23,500	23,970	24,449	24,938	25,437	25,946
MC	MC3	22,723	23,178	23,641	24,114	24,596	25,088	25,590	26,102	26,624	27,156	27,699	28,253	28,818	29,395
MC	MC4	22,754	23,209	23,674	24,147	24,630	25,123	25,625	26,138	26,660	27,194	27,737	28,292	28,858	29,435
TC	TC1	22,962	23,422	23,890	24,368	24,855	25,352	25,859	26,377	26,904	27,442	27,991	28,551	29,122	29,704
TY	TY3	552	563	574	586	597	609	622	634	647	660	673	686	700	714

Escalation Rate: 2% Year $: 2010

		Month	Year	Equipment	Fixed O&M $/yr	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
BR	BR1	5	2014	PJFF/PAC		0	0	0	598,882	610,860	623,077	635,538	648,249	661,214	674,439	687,927	701,686	715,720	730,034	744,635	759,527	774,718
BR	BR1	5	2014	SAM Mitigation		0	0	0	78,540	137,333	140,079	142,881	145,739	148,653	151,627	154,659	157,752	160,907	164,125	167,408	170,756	174,171
BR	BR2	4	2014	PJFF/PAC		0	0	0	714,168	728,451	743,020	757,880	773,038	788,499	804,269	820,354	836,761	853,496	870,566	887,978	905,737	923,852
BR	BR2	4	2014	SAM Mitigation		0	0	0	134,640	137,333	140,079	142,881	145,739	148,653	151,627	154,659	157,752	160,907	164,125	167,408	170,756	174,171
BR	BR3	5	2015	PJFF/PAC		0	0	0	0	1,067,560	1,088,911	1,110,689	1,132,903	1,155,561	1,178,672	1,202,245	1,226,290	1,250,816	1,275,832	1,301,349	1,327,376	1,353,924
GH	GH1	5	2014	PJFF/PAC		0	0	0	1,293,082	1,318,944	1,345,322	1,372,229	1,399,673	1,427,667	1,456,220	1,485,345	1,515,052	1,545,353	1,576,260	1,607,785	1,639,941	1,672,739
GH	GH1	5	2014	SCR Turn-Down		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GH	GH1	2	2013	SAM Mitigation		0	0	0	4,899	0	0	0	0	0	0	0	0	0	0	0	0	0
GH	GH2	11	2014	PJFF/PAC		0	0	0	777,600	1,586,304	1,618,030	1,650,391	1,683,399	1,717,067	1,751,408	1,786,436	1,822,165	1,858,608	1,895,781	1,933,696	1,972,370	2,011,817
GH	GH2	12	2012	Sorbent Injection		0	8,064	98,700	100,674	102,687	104,741	106,836	108,973	111,152	113,375	115,643	117,956	120,315	122,721	125,175	127,679	130,232
GH	GH3	10	2015	PJFF/PAC		0	0	0	0	652,436	1,330,969	1,357,589	1,384,741	1,412,435	1,440,684	1,469,498	1,498,888	1,528,865	1,559,443	1,590,632	1,622,444	1,654,893
GH	GH3	11	2013	SCR Turn-Down		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GH	GH3	2	2013	SAM Mitigation		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GH	GH4	12	2015	PJFF/PAC		0	0	0	0	631,870	1,289,014	1,314,795	1,341,091	1,367,912	1,395,271	1,423,176	1,451,640	1,480,672	1,510,286	1,540,491	1,571,301	1,602,727
GH	GH4	3	2014	SCR Turn-Down		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GH	GH4	2	2013	SAM Mitigation		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC1	5	2015	Combined 1&2 FGD		0	0	0	0	-238,642	-219,636	-200,250	-180,476	-160,306	-139,733	-118,749	-121,124	-123,546	-126,017	-128,537	-131,108	-133,730
MC	MC1	5	2015	PJFF/PAC		0	0	0	0	1,446,222	1,475,147	1,504,650	1,534,743	1,565,438	1,596,746	1,628,681	1,661,255	1,694,480	1,728,370	1,762,937	1,798,196	1,834,160
MC	MC1	5	2015	SAM Mitigation		0	0	0	0	22,100	38,643	39,416	40,204	41,008	41,828	42,665	43,518	44,388	45,276	46,182	47,105	48,047
MC	MC2	4	2015	Combined 1&2 FGD		0	0	0	0	186,506	205,512	224,899	244,673	264,842	285,415	306,400	312,528	318,778	325,154	331,657	338,290	345,056
MC	MC2	4	2015	PJFF/PAC		0	0	0	0	1,418,867	1,447,245	1,476,189	1,505,713	1,535,828	1,566,544	1,597,875	1,629,832	1,662,429	1,695,678	1,729,591	1,764,183	1,799,467
MC	MC2	4	2015	SAM Mitigation		0	0	0	0	25,257	38,643	39,416	40,204	41,008	41,828	42,665	43,518	44,388	45,276	46,182	47,105	48,047
MC	MC3	11	2014	FGD		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC3	10	2015	PJFF/PAC		0	0	0	0	646,753	1,319,377	1,345,764	1,372,679	1,400,133	1,428,136	1,456,698	1,485,832	1,515,549	1,545,860	1,576,777	1,608,313	1,640,479
MC	MC3	4	2013	SAM Mitigation		0	0	24,068	36,824	37,560	38,312	39,078	39,859	40,657	41,470	42,299	43,145	44,008	44,888	45,786	46,702	47,636
MC	MC3	4	2013	SCR Turn-Down		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC4	11	2014	FGD		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC4	11	2014	PJFF/PAC		0	0	0	743,376	1,516,487	1,546,817	1,577,754	1,609,309	1,641,495	1,674,325	1,707,811	1,741,967	1,776,807	1,812,343	1,848,590	1,885,562	1,923,273
MC	MC4	11	2014	SAM Mitigation		0	0	0	3,095	37,885	38,643	39,416	40,204	41,008	41,828	42,665	43,518	44,388	45,276	46,182	47,105	48,047
MC	MC4	11	2014	SCR Turn-Down		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TC	TC1	11	2015	PJFF/PAC		0	0	0	0	493,761	1,007,273	1,027,418	1,047,966	1,068,926	1,090,304	1,112,110	1,134,353	1,157,040	1,180,180	1,203,784	1,227,860	1,252,417
CR	CR4	1	2016	SCR	1,871,000	0	0	0	0	0	2,107,050	2,149,191	2,192,175	2,236,018	2,280,739	2,326,353	2,372,880	2,420,338	2,468,745	2,518,120	2,568,482	2,619,852
CR	CR4	1	2016	WFGD		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR4	1	2016	PJFF	1,191,000	0	0	0	0	0	1,341,259	1,368,085	1,395,446	1,423,355	1,451,822	1,480,859	1,510,476	1,540,685	1,571,499	1,602,929	1,634,988	1,667,688
CR	CR4	1	2016	SAM Mitigation	174,000	0	0	0	0	0	195,952	199,871	203,869	207,946	212,105	216,347	220,674	225,088	229,589	234,181	238,865	243,642
CR	CR4	1	2016	PAC Injection	169,000	0	0	0	0	0	190,321	194,128	198,010	201,971	206,010	210,130	214,333	218,620	222,992	227,452	232,001	236,641
CR	CR5	1	2016	SCR	1,993,000	0	0	0	0	0	2,244,442	2,289,331	2,335,117	2,381,819	2,429,456	2,478,045	2,527,606	2,578,158	2,629,721	2,682,316	2,735,962	2,790,681
CR	CR5	1	2016	WFGD		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR5	1	2016	PJFF	1,251,000	0	0	0	0	0	1,408,829	1,437,006	1,465,746	1,495,061	1,524,962	1,555,461	1,586,570	1,618,302	1,650,668	1,683,681	1,717,355	1,751,702
CR	CR5	1	2016	SAM Mitigation	177,000	0	0	0	0	0	199,331	203,317	207,384	211,531	215,762	220,077	224,479	228,968	233,548	238,219	242,983	247,843
CR	CR5	1	2016	PAC Injection	172,000	0	0	0	0	0	193,700	197,574	201,525	205,556	209,667	213,860	218,138	222,500	226,950	231,489	236,119	240,842
CR	CR6	1	2016	SCR	2,392,000	0	0	0	0	0	2,693,781	2,747,656	2,802,609	2,858,661	2,915,835	2,974,151	3,033,634	3,094,307	3,156,193	3,219,317	3,283,703	3,349,377
CR	CR6	1	2016	WFGD		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR6	1	2016	PJFF	1,632,000	0	0	0	0	0	1,837,897	1,874,655	1,912,148	1,950,391	1,989,399	2,029,187	2,069,771	2,111,166	2,153,389	2,196,457	2,240,386	2,285,194
CR	CR6	1	2016	SAM Mitigation	198,000	0	0	0	0	0	222,980	227,440	231,989	236,628	241,361	246,188	251,112	256,134	261,257	266,482	271,812	277,248
CR	CR6	1	2016	PAC Injection	191,000	0	0	0	0	0	215,097	219,399	223,787	228,263	232,828	237,484	242,234	247,079	252,020	257,061	262,202	267,446
GR	GR3	1	2016	SCR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GR	GR3	1	2016	CDS-FF	3,322,000	0	0	0	0	0	3,741,112	3,815,934	3,892,252	3,970,098	4,049,499	4,130,489	4,213,099	4,297,361	4,383,308	4,470,975	4,560,394	4,651,602
GR	GR3	1	2016	PAC Injection	141,000	0	0	0	0	0	158,789	161,965	165,204	168,508	171,878	175,316	178,822	182,399	186,047	189,767	193,563	197,434
GR	GR4	1	2016	SCR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GR	GR4	1	2016	CDS-FF	4,309,000	0	0	0	0	0	4,852,634	4,949,687	5,048,680	5,149,654	5,252,647	5,357,700	5,464,854	5,574,151	5,685,634	5,799,347	5,915,334	6,033,640
GR	GR4	1	2016	PAC Injection	150,000	0	0	0	0	0	168,924	172,303	175,749	179,264	182,849	186,506	190,236	194,041	197,922	201,880	205,918	210,036

Escalation Rate: 2% Year $:

		Month	Year	Equipment	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
BR	BR1	5	2014	PJFF/PAC	790,212	806,016	822,137	838,580	855,351	872,458	889,907	907,705	925,860	944,377	963,264	982,530	1,002,180
BR	BR1	5	2014	SAM Mitigation	177,655	181,208	184,832	188,529	192,299	196,145	200,068	204,069	208,151	212,314	216,560	220,891	225,309
BR	BR2	4	2014	PJFF/PAC	942,329	961,175	980,399	1,000,007	1,020,007	1,040,407	1,061,215	1,082,440	1,104,088	1,126,170	1,148,694	1,171,668	1,195,101
BR	BR2	4	2014	SAM Mitigation	177,655	181,208	184,832	188,529	192,299	196,145	200,068	204,069	208,151	212,314	216,560	220,891	225,309
BR	BR3	5	2015	PJFF/PAC	1,381,002	1,408,622	1,436,795	1,465,530	1,494,841	1,524,738	1,555,233	1,586,337	1,618,064	1,650,425	1,683,434	1,717,103	1,751,445
GH	GH1	5	2014	PJFF/PAC	1,706,194	1,740,318	1,775,124	1,810,627	1,846,839	1,883,776	1,921,452	1,959,881	1,999,078	2,039,060	2,079,841	2,121,438	2,163,867
GH	GH1	5	2014	SCR Turn-Down	0	0	0	0	0	0	0	0	0	0	0	0	0
GH	GH1	2	2013	SAM Mitigation	0	0	0	0	0	0	0	0	0	0	0	0	0
GH	GH2	11	2014	PJFF/PAC	2,052,054	2,093,095	2,134,957	2,177,656	2,221,209	2,265,633	2,310,946	2,357,165	2,404,308	2,452,394	2,501,442	2,551,471	2,602,500
GH	GH2	12	2012	Sorbent Injection	132,837	135,494	138,204	140,968	143,787	146,663	149,596	152,588	155,640	158,753	161,928	165,166	168,470
GH	GH3	10	2015	PJFF/PAC	1,687,991	1,721,751	1,756,186	1,791,310	1,827,136	1,863,678	1,900,952	1,938,971	1,977,751	2,017,306	2,057,652	2,098,805	2,140,781
GH	GH3	11	2013	SCR Turn-Down	0	0	0	0	0	0	0	0	0	0	0	0	0
GH	GH3	2	2013	SAM Mitigation	0	0	0	0	0	0	0	0	0	0	0	0	0
GH	GH4	12	2015	PJFF/PAC	1,634,782	1,667,477	1,700,827	1,734,844	1,769,540	1,804,931	1,841,030	1,877,850	1,915,407	1,953,716	1,992,790	2,032,646	2,073,299
GH	GH4	3	2014	SCR Turn-Down	0	0	0	0	0	0	0	0	0	0	0	0	0
GH	GH4	2	2013	SAM Mitigation	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC1	5	2015	Combined 1&2 F(	-136,405	-139,133	-141,916	-144,754	-147,649	-150,602	-153,614	-156,686	-159,820	-163,017	-166,277	-169,602	-172,994
MC	MC1	5	2015	PJFF/PAC	1,870,843	1,908,260	1,946,425	1,985,354	2,025,061	2,065,562	2,106,873	2,149,010	2,191,991	2,235,831	2,280,547	2,326,158	2,372,681
MC	MC1	5	2015	SAM Mitigation	49,008	49,989	50,988	52,008	53,048	54,109	55,191	56,295	57,421	58,570	59,741	60,936	62,155
MC	MC2	4	2015	Combined 1&2 F(	351,957	358,996	366,176	373,499	380,969	388,589	396,361	404,288	412,374	420,621	429,033	437,614	446,366
MC	MC2	4	2015	PJFF/PAC	1,835,456	1,872,165	1,909,608	1,947,801	1,986,757	2,026,492	2,067,022	2,108,362	2,150,529	2,193,540	2,237,411	2,282,159	2,327,802
MC	MC2	4	2015	SAM Mitigation	49,008	49,989	50,988	52,008	53,048	54,109	55,191	56,295	57,421	58,570	59,741	60,936	62,155
MC	MC3	11	2014	FGD	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC3	10	2015	PJFF/PAC	1,673,288	1,706,754	1,740,889	1,775,707	1,811,221	1,847,446	1,884,395	1,922,083	1,960,524	1,999,735	2,039,729	2,080,524	2,122,134
MC	MC3	4	2013	SAM Mitigation	48,588	49,560	50,551	51,562	52,594	53,645	54,718	55,813	56,929	58,068	59,229	60,414	61,622
MC	MC3	4	2013	SCR Turn-Down	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC4	11	2014	FGD	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC4	11	2014	PJFF/PAC	1,961,738	2,000,973	2,040,992	2,081,812	2,123,449	2,165,918	2,209,236	2,253,421	2,298,489	2,344,459	2,391,348	2,439,175	2,487,958
MC	MC4	11	2014	SAM Mitigation	49,008	49,989	50,988	52,008	53,048	54,109	55,191	56,295	57,421	58,570	59,741	60,936	62,155
MC	MC4	11	2014	SCR Turn-Down	0	0	0	0	0	0	0	0	0	0	0	0	0
TC	TC1	11	2015	PJFF/PAC	1,277,465	1,303,015	1,329,075	1,355,656	1,382,769	1,410,425	1,438,633	1,467,406	1,496,754	1,526,689	1,557,223	1,588,367	1,620,135
CR	CR4	1	2016	SCR	2,672,249	2,725,694	2,780,208	2,835,812	2,892,528	2,950,379	3,009,386	3,069,574	3,130,965	3,193,585	3,257,456	3,322,605	3,389,058
CR	CR4	1	2016	WFGD	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR4	1	2016	PJFF	1,701,041	1,735,062	1,769,763	1,805,159	1,841,262	1,878,087	1,915,649	1,953,962	1,993,041	2,032,902	2,073,560	2,115,031	2,157,332
CR	CR4	1	2016	SAM Mitigation	248,515	253,485	258,555	263,726	269,000	274,380	279,868	285,465	291,175	296,998	302,938	308,997	315,177
CR	CR4	1	2016	PAC Injection	241,374	246,201	251,125	256,148	261,271	266,496	271,826	277,262	282,808	288,464	294,233	300,118	306,120
CR	CR5	1	2016	SCR	2,846,495	2,903,425	2,961,493	3,020,723	3,081,137	3,142,760	3,205,615	3,269,728	3,335,122	3,401,825	3,469,861	3,539,258	3,610,044
CR	CR5	1	2016	WFGD	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR5	1	2016	PJFF	1,786,736	1,822,471	1,858,920	1,896,099	1,934,021	1,972,701	2,012,155	2,052,398	2,093,446	2,135,315	2,178,021	2,221,582	2,266,013
CR	CR5	1	2016	SAM Mitigation	252,800	257,856	263,013	268,273	273,638	279,111	284,693	290,387	296,195	302,119	308,161	314,325	320,611
CR	CR5	1	2016	PAC Injection	245,658	250,572	255,583	260,695	265,909	271,227	276,651	282,184	287,828	293,584	299,456	305,445	311,554
CR	CR6	1	2016	SCR	3,416,365	3,484,692	3,554,386	3,625,474	3,697,983	3,771,943	3,847,382	3,924,330	4,002,816	4,082,872	4,164,530	4,247,820	4,332,777
CR	CR6	1	2016	WFGD	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR6	1	2016	PJFF	2,330,898	2,377,516	2,425,066	2,473,567	2,523,039	2,573,500	2,624,970	2,677,469	2,731,018	2,785,639	2,841,352	2,898,179	2,956,142
CR	CR6	1	2016	SAM Mitigation	282,793	288,449	294,218	300,102	306,104	312,226	318,471	324,840	331,337	337,964	344,723	351,617	358,650
CR	CR6	1	2016	PAC Injection	272,795	278,251	283,816	289,492	295,282	301,188	307,212	313,356	319,623	326,015	332,536	339,186	345,970
GR	GR3	1	2016	SCR	0	0	0	0	0	0	0	0	0	0	0	0	0
GR	GR3	1	2016	CDS-FF	4,744,634	4,839,527	4,936,317	5,035,044	5,135,744	5,238,459	5,343,229	5,450,093	5,559,095	5,670,277	5,783,682	5,899,356	6,017,343
GR	GR3	1	2016	PAC Injection	201,383	205,410	209,519	213,709	217,983	222,343	226,790	231,325	235,952	240,671	245,484	250,394	255,402
GR	GR4	1	2016	SCR	0	0	0	0	0	0	0	0	0	0	0	0	0
GR	GR4	1	2016	CDS-FF	6,154,313	6,277,399	6,402,947	6,531,006	6,661,626	6,794,859	6,930,756	7,069,371	7,210,759	7,354,974	7,502,073	7,652,115	7,805,157
GR	GR4	1	2016	PAC Injection	214,237	218,522	222,892	227,350	231,897	236,535	241,266	246,091	251,013	256,033	261,154	266,377	271,704

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Station	Unit	Capacity	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
BR	BR1	101	69	164	256	346	434	520	605	689	771	852	931	1,008	1,085	1,163	1,241	1,320	1,399	1,479
BR	BR2	167	114	271	423	571	717	860	1,001	1,139	1,275	1,408	1,539	1,667	1,794	1,922	2,052	2,182	2,313	2,446
BR	BR3	416	285	675	1,053	1,423	1,786	2,143	2,493	2,838	3,176	3,508	3,834	4,153	4,469	4,789	5,111	5,435	5,762	6,092
CR	CR4	155	77	204	327	447	564	678	790	899	1,006	1,109	1,210	1,308	1,405	1,501	1,596	1,691	1,786	1,880
CR	CR5	168	84	221	355	485	611	735	856	975	1,090	1,202	1,312	1,418	1,522	1,626	1,730	1,833	1,936	2,038
CR	CR6	240	120	316	507	692	873	1,050	1,223	1,392	1,557	1,718	1,874	2,026	2,175	2,324	2,471	2,619	2,765	2,911
GH	GH1	475	510	1,206	1,884	2,548	3,200	3,843	4,477	5,101	5,717	6,322	6,918	7,504	8,080	8,653	9,231	9,814	10,402	10,995
GH	GH2	484	520	1,228	1,920	2,596	3,261	3,916	4,562	5,198	5,825	6,442	7,049	7,646	8,233	8,817	9,405	9,999	10,599	11,204
GH	GH3	480	516	1,218	1,904	2,575	3,234	3,883	4,524	5,155	5,777	6,389	6,991	7,583	8,165	8,744	9,328	9,917	10,511	11,111
GH	GH4	479	515	1,216	1,900	2,570	3,227	3,875	4,514	5,144	5,765	6,376	6,977	7,567	8,148	8,726	9,308	9,896	10,489	11,088
GR	GR3	68	39	96	151	205	258	309	360	410	458	506	553	598	643	689	734	780	825	871
GR	GR4	95	55	134	211	286	360	432	503	572	640	707	772	836	899	962	1,026	1,089	1,153	1,217
MC	MC1	303	309	767	1,213	1,649	2,077	2,497	2,910	3,315	3,714	4,104	4,487	4,862	5,229	5,592	5,956	6,320	6,686	7,053
MC	MC2	301	307	762	1,205	1,639	2,063	2,480	2,891	3,294	3,689	4,077	4,458	4,830	5,194	5,555	5,916	6,279	6,642	7,007
MC	MC3	391	398	989	1,565	2,128	2,680	3,222	3,755	4,278	4,792	5,296	5,790	6,274	6,747	7,216	7,685	8,156	8,628	9,102
MC	MC4	477	486	1,207	1,910	2,597	3,270	3,931	4,581	5,219	5,846	6,461	7,064	7,654	8,231	8,803	9,376	9,950	10,526	11,103
TC	TC1	383	115	270	420	567	712	855	996	1,135	1,272	1,407	1,539	1,670	1,799	1,927	2,057	2,188	2,320	2,453
TC	TC2	549	166	386	602	813	1,021	1,225	1,427	1,626	1,823	2,016	2,207	2,394	2,579	2,762	2,948	3,136	3,325	3,517
TY	TY3	71	94	233	368	499	628	754	878	999	1,118	1,234	1,347	1,458	1,568	1,677	1,787	1,898	2,008	2,119

2.50% Capital Escalation Rate

		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
2011	CR	281	454	428	405	384	364	344	325	305	285	266	246	231	221	211	200	190	180
2012	CR		288	465	439	415	394	373	353	333	313	293	272	252	237	226	216	205	195
2013	CR			295	477	450	426	403	382	362	341	321	300	279	259	243	232	221	210
2014	CR				303	489	461	436	413	392	371	350	329	307	286	265	249	238	227
2015	CR					310	501	473	447	424	402	380	358	337	315	293	272	255	244
2016	CR						318	513	485	459	434	412	390	367	345	323	301	279	262
2017	CR							326	526	497	470	445	422	399	377	354	331	308	286
2018	CR								334	539	509	482	456	433	409	386	363	339	316
2019	CR									342	553	522	494	468	444	420	396	372	348
2020	CR										351	567	535	506	479	455	430	406	381
2021	CR											360	581	548	519	491	466	441	416
2022	CR												369	595	562	532	504	478	452
2023	CR													378	610	576	545	516	490
2024	CR														387	625	591	559	529
2025	CR															397	641	605	573
2026	CR																407	657	621
2027	CR																	417	673
2028	CR																		428
2029	CR																		
2030	CR																		
2031	CR																		
2032	CR																		
2033	CR																		
2034	CR																		
2035	CR																		
2036	CR																		
2037	CR																		
2038	CR																		

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Station	Unit	Capacity	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
	2039	CR																		
	2040	CR																		
	2011	MC	1,499	2,188	2,076	1,972	1,877	1,788	1,703	1,617	1,532	1,447	1,361	1,276	1,191	1,128	1,089	1,049	1,010	970
	2012	MC		1,536	2,243	2,128	2,021	1,923	1,833	1,745	1,658	1,570	1,483	1,395	1,308	1,221	1,157	1,116	1,075	1,035
	2013	MC			1,575	2,299	2,181	2,072	1,972	1,878	1,789	1,699	1,610	1,520	1,430	1,341	1,251	1,185	1,144	1,102
	2014	MC				1,614	2,357	2,235	2,124	2,021	1,925	1,834	1,742	1,650	1,558	1,466	1,374	1,282	1,215	1,173
	2015	MC					1,655	2,416	2,291	2,177	2,071	1,974	1,879	1,785	1,691	1,597	1,503	1,409	1,314	1,245
	2016	MC						1,696	2,476	2,348	2,231	2,123	2,023	1,926	1,830	1,733	1,637	1,540	1,444	1,347
	2017	MC							1,738	2,538	2,407	2,287	2,176	2,073	1,975	1,876	1,777	1,678	1,579	1,480
	2018	MC								1,782	2,601	2,467	2,344	2,231	2,125	2,024	1,922	1,821	1,720	1,618
	2019	MC									1,826	2,666	2,529	2,403	2,286	2,178	2,075	1,971	1,867	1,763
	2020	MC										1,872	2,733	2,592	2,463	2,344	2,233	2,126	2,020	1,913
	2021	MC											1,919	2,801	2,657	2,524	2,402	2,289	2,180	2,070
	2022	MC												1,967	2,871	2,723	2,588	2,462	2,346	2,234
	2023	MC													2,016	2,943	2,792	2,652	2,524	2,405
	2024	MC														2,066	3,017	2,861	2,719	2,587
	2025	MC															2,118	3,092	2,933	2,787
	2026	MC																2,171	3,170	3,006
	2027	MC																	2,225	3,249
	2028	MC																		2,281
	2029	MC																		
	2030	MC																		
	2031	MC																		
	2032	MC																		
	2033	MC																		
	2034	MC																		
	2035	MC																		
	2036	MC																		
	2037	MC																		
	2038	MC																		
	2039	MC																		
	2040	MC																		
	2011	TC	281	368	350	333	318	304	291	278	264	251	238	225	211	203	198	193	189	184
	2012	TC		288	377	358	341	326	312	298	284	271	257	244	230	217	208	203	198	193
	2013	TC			295	387	367	350	334	319	305	292	278	264	250	236	222	213	208	203
	2014	TC				303	396	376	359	342	327	313	299	285	270	256	242	228	218	213
	2015	TC					310	406	386	368	351	336	321	306	292	277	263	248	233	224
	2016	TC						318	416	396	377	360	344	329	314	299	284	269	254	239
	2017	TC							326	427	405	386	369	353	337	322	307	291	276	261
	2018	TC								334	437	416	396	378	361	346	330	314	298	283
	2019	TC									342	448	426	406	387	370	354	338	322	306
	2020	TC										351	460	437	416	397	380	363	347	330
	2021	TC											360	471	447	426	407	389	372	355
	2022	TC												369	483	459	437	417	399	381
	2023	TC													378	495	470	448	427	409
	2024	TC														387	507	482	459	438
	2025	TC															397	520	494	470
	2026	TC																407	533	506
	2027	TC																	417	546
	2028	TC																		428
	2029	TC																		

$000

Station	Unit	Capacity	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
	2030	TC																		
	2031	TC																		
	2032	TC																		
	2033	TC																		
	2034	TC																		
	2035	TC																		
	2036	TC																		
	2037	TC																		
	2038	TC																		
	2039	TC																		
	2040	TC																		
	2011	GH	2,061	2,756	2,617	2,492	2,377	2,272	2,171	2,070	1,970	1,869	1,768	1,667	1,567	1,498	1,460	1,422	1,384	1,346
	2012	GH		2,113	2,825	2,683	2,554	2,436	2,328	2,225	2,122	2,019	1,916	1,812	1,709	1,606	1,535	1,496	1,458	1,419
	2013	GH			2,165	2,895	2,750	2,618	2,497	2,387	2,281	2,175	2,069	1,963	1,858	1,752	1,646	1,573	1,534	1,494
	2014	GH				2,219	2,968	2,819	2,683	2,560	2,446	2,338	2,229	2,121	2,013	1,904	1,796	1,687	1,613	1,572
	2015	GH					2,275	3,042	2,889	2,750	2,623	2,507	2,396	2,285	2,174	2,063	1,952	1,841	1,729	1,653
	2016	GH						2,332	3,118	2,961	2,819	2,689	2,570	2,456	2,342	2,228	2,114	2,001	1,887	1,773
	2017	GH							2,390	3,196	3,035	2,889	2,756	2,634	2,518	2,401	2,284	2,167	2,051	1,934
	2018	GH								2,450	3,276	3,111	2,962	2,825	2,700	2,581	2,461	2,341	2,221	2,102
	2019	GH									2,511	3,358	3,189	3,036	2,896	2,768	2,645	2,522	2,400	2,277
	2020	GH										2,574	3,442	3,269	3,112	2,968	2,837	2,711	2,585	2,460
	2021	GH											2,638	3,528	3,350	3,189	3,042	2,908	2,779	2,650
	2022	GH												2,704	3,616	3,434	3,269	3,119	2,981	2,848
	2023	GH													2,772	3,706	3,520	3,351	3,196	3,055
	2024	GH														2,841	3,799	3,608	3,435	3,276
	2025	GH															2,912	3,894	3,698	3,521
	2026	GH																2,985	3,991	3,791
	2027	GH																	3,060	4,091
	2028	GH																		3,136
	2029	GH																		
	2030	GH																		
	2031	GH																		
	2032	GH																		
	2033	GH																		
	2034	GH																		
	2035	GH																		
	2036	GH																		
	2037	GH																		
	2038	GH																		
	2039	GH																		
	2040	GH																		
	2011	BR	468	629	595	565	538	513	489	464	440	415	391	367	350	341	332	323	315	306
	2012	BR		480	645	610	579	551	526	501	476	451	426	401	376	359	350	341	332	323
	2013	BR			492	661	625	594	565	539	513	488	462	436	411	385	368	358	349	340
	2014	BR				504	677	641	609	579	552	526	500	474	447	421	395	377	367	358
	2015	BR					517	694	657	624	594	566	539	512	485	458	432	405	386	377
	2016	BR						530	712	674	639	608	580	553	525	498	470	442	415	396
	2017	BR							543	729	690	655	624	595	567	538	510	482	453	425
	2018	BR								557	748	708	672	639	610	581	552	523	494	465
	2019	BR									571	766	725	688	655	625	595	566	536	506
	2020	BR										585	785	743	706	672	641	610	580	549

$000

Station	Unit	Capacity	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
	2021	BR											600	805	762	723	688	657	625	594
	2022	BR												615	825	781	741	706	673	641
	2023	BR													630	846	801	760	723	690
	2024	BR														646	867	821	779	741
	2025	BR															662	889	841	798
	2026	BR																678	911	862
	2027	BR																	695	934
	2028	BR																		713
	2029	BR																		
	2030	BR																		
	2031	BR																		
	2032	BR																		
	2033	BR																		
	2034	BR																		
	2035	BR																		
	2036	BR																		
	2037	BR																		
	2038	BR																		
	2039	BR																		
	2040	BR																		
	2011	GR	94	134	127	120	114	108	103	98	92	87	81	76	72	70	68	65	63	61
	2012	GR		96	137	130	123	117	111	106	100	95	89	83	78	74	72	69	67	65
	2013	GR			98	141	133	126	120	114	108	103	97	91	86	80	76	73	71	69
	2014	GR				101	144	136	129	123	117	111	105	99	94	88	82	78	75	73
	2015	GR					103	148	140	132	126	120	114	108	102	96	90	84	80	77
	2016	GR						106	151	143	136	129	123	117	111	104	98	92	86	82
	2017	GR							109	155	147	139	132	126	120	113	107	101	94	88
	2018	GR								111	159	150	143	135	129	123	116	110	103	97
	2019	GR									114	163	154	146	139	132	126	119	112	106
	2020	GR										117	167	158	150	142	135	129	122	115
	2021	GR											120	171	162	154	146	139	132	125
	2022	GR												123	176	166	157	150	142	135
	2023	GR													126	180	170	161	153	146
	2024	GR														129	184	174	165	157
	2025	GR															132	189	179	169
	2026	GR																136	194	183
	2027	GR																	139	199
	2028	GR																		143
	2029	GR																		
	2030	GR																		
	2031	GR																		
	2032	GR																		
	2033	GR																		
	2034	GR																		
	2035	GR																		
	2036	GR																		
	2037	GR																		
	2038	GR																		
	2039	GR																		
	2040	GR																		
	2011	TY	94	137	129	122	116	111	105	99	94	88	83	77	73	71	68	66	63	61

			$000																	
Station	Unit	Capacity	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
	2012	TY		96	140	132	125	119	113	108	102	96	90	85	79	75	72	70	67	65
	2013	TY			98	143	136	129	122	116	110	104	99	93	87	81	77	74	71	69
	2014	TY				101	147	139	132	125	119	113	107	101	95	89	83	79	76	73
	2015	TY					103	151	143	135	128	122	116	110	104	97	91	85	81	78
	2016	TY						106	154	146	138	131	125	119	112	106	100	93	87	83
	2017	TY							109	158	150	142	135	128	122	115	109	102	96	89
	2018	TY								111	162	153	145	138	131	125	118	111	105	98
	2019	TY									114	166	157	149	142	135	128	121	114	107
	2020	TY										117	171	161	153	145	138	131	124	117
	2021	TY											120	175	165	157	149	141	134	127
	2022	TY												123	179	169	161	152	145	138
	2023	TY													126	184	174	165	156	149
	2024	TY														129	188	178	169	160
	2025	TY															132	193	182	173
	2026	TY																136	198	187
	2027	TY																	139	203
	2028	TY																		143
	2029	TY																		
	2030	TY																		
	2031	TY																		
	2032	TY																		
	2033	TY																		
	2034	TY																		
	2035	TY																		
	2036	TY																		
	2037	TY																		
	2038	TY																		
	2039	TY																		
	2040	TY																		

Station	Unit	Capacity	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
BR	BR1	101	1,560	1,642	1,724	1,807	1,891	1,975	2,061	2,147	2,234	2,322	2,411	2,501	2,446	2,340	2,239	2,145	2,055	1,969
BR	BR2	167	2,579	2,714	2,850	2,988	3,126	3,266	3,407	3,550	3,694	3,839	3,986	4,135	4,045	3,868	3,703	3,546	3,397	3,255
BR	BR3	416	6,425	6,761	7,100	7,442	7,787	8,136	8,488	8,843	9,202	9,564	9,930	10,300	10,076	9,636	9,223	8,833	8,463	8,109
CR	CR4	155	1,974	2,023	2,073	2,125	2,178	2,233	2,289	2,346	2,405	2,465	2,526	2,589	2,492	2,292	2,102	1,921	1,747	1,580
CR	CR5	168	2,139	2,193	2,247	2,304	2,361	2,420	2,481	2,543	2,606	2,671	2,738	2,807	2,701	2,484	2,278	2,082	1,893	1,713
CR	CR6	240	3,056	3,132	3,210	3,291	3,373	3,457	3,544	3,632	3,723	3,816	3,912	4,009	3,858	3,549	3,255	2,974	2,705	2,447
GH	GH1	475	11,594	12,199	12,809	13,425	14,048	14,676	15,311	15,953	16,601	17,256	17,918	18,587	18,193	17,419	16,688	15,994	15,334	14,702
GH	GH2	484	11,814	12,430	13,052	13,680	14,314	14,954	15,601	16,255	16,915	17,583	18,257	18,939	18,537	17,749	17,004	16,297	15,624	14,981
GH	GH3	480	11,716	12,327	12,944	13,567	14,196	14,831	15,472	16,121	16,775	17,437	18,106	18,782	18,384	17,602	16,863	16,163	15,495	14,857
GH	GH4	479	11,692	12,302	12,917	13,538	14,166	14,800	15,440	16,087	16,741	17,401	18,069	18,743	18,346	17,565	16,828	16,129	15,463	14,826
GR	GR3	68	918	964	1,011	1,057	1,104	1,152	1,199	1,247	1,295	1,343	1,377	1,411	1,364	1,281	1,203	1,128	1,056	988
GR	GR4	95	1,282	1,347	1,412	1,477	1,543	1,609	1,675	1,742	1,809	1,876	1,923	1,971	1,906	1,790	1,680	1,575	1,476	1,380
MC	MC1	303	7,421	7,790	8,160	8,531	8,903	9,277	9,651	10,027	10,278	10,535	10,798	11,068	10,698	10,020	9,375	8,758	8,166	7,598
MC	MC2	301	7,372	7,739	8,106	8,475	8,845	9,216	9,588	9,961	10,210	10,465	10,727	10,995	10,627	9,954	9,313	8,700	8,112	7,548
MC	MC3	391	9,576	10,052	10,530	11,009	11,489	11,971	12,455	12,940	13,263	13,595	13,934	14,283	13,805	12,931	12,097	11,301	10,538	9,805
MC	MC4	477	11,683	12,263	12,846	13,430	14,016	14,604	15,194	15,786	16,180	16,585	16,999	17,424	16,841	15,775	14,758	13,787	12,856	11,962
TC	TC1	383	2,588	2,725	2,863	3,002	3,144	3,286	3,431	3,577	3,725	3,875	4,026	4,180	4,093	3,927	3,771	3,623	3,483	3,349
TC	TC2	549	3,710	3,906	4,104	4,304	4,506	4,711	4,918	5,127	5,339	5,554	5,771	5,991	5,866	5,629	5,405	5,193	4,992	4,801
TY	TY3	71	2,230	2,341	2,453	2,565	2,678	2,790	2,904	3,017	3,092	3,170	3,249	3,330	3,217	3,011	2,815	2,629	2,451	2,281

2.50%

2011	CR	169	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2012	CR	184	174	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2013	CR	200	189	178	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2014	CR	216	205	194	182	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2015	CR	232	221	210	198	187	0	0	0	0	0	0	0	0	0	0	0	0	0
2016	CR	250	238	227	215	203	192	0	0	0	0	0	0	0	0	0	0	0	0
2017	CR	268	256	244	232	220	208	196	0	0	0	0	0	0	0	0	0	0	0
2018	CR	293	275	263	250	238	226	214	201	0	0	0	0	0	0	0	0	0	0
2019	CR	324	300	282	269	257	244	232	219	206	0	0	0	0	0	0	0	0	0
2020	CR	357	332	307	289	276	263	250	237	224	212	0	0	0	0	0	0	0	0
2021	CR	391	365	340	315	296	283	270	256	243	230	217	0	0	0	0	0	0	0
2022	CR	426	400	375	349	323	303	290	276	263	249	236	222	0	0	0	0	0	0
2023	CR	463	437	410	384	358	331	311	297	283	269	256	242	228	0	0	0	0	0
2024	CR	502	475	448	421	394	366	339	319	305	290	276	262	248	234	0	0	0	0
2025	CR	542	514	487	459	431	403	376	348	327	312	298	283	268	254	239	0	0	0
2026	CR	587	556	527	499	470	442	413	385	357	335	320	305	290	275	260	245	0	0
2027	CR	636	602	570	540	511	482	453	424	395	365	343	328	313	297	282	267	252	0
2028	CR	690	652	617	584	554	524	494	464	434	404	375	352	336	320	305	289	273	258
2029	CR	438	708	668	632	599	568	537	506	476	445	415	384	361	345	329	312	296	280
2030	CR		449	725	685	648	614	582	551	519	488	456	425	394	370	353	337	320	304
2031	CR			461	743	702	664	629	596	564	532	500	468	436	403	379	362	345	328
2032	CR				472	762	720	681	645	611	578	545	512	479	446	414	388	371	354
2033	CR					484	781	738	698	661	627	593	559	525	491	458	424	398	380
2034	CR						496	800	756	715	677	642	608	573	538	504	469	434	408
2035	CR							508	820	775	733	694	658	623	587	552	516	481	445
2036	CR								521	841	794	751	712	675	638	602	566	529	493
2037	CR									534	862	814	770	730	692	654	617	580	542
2038	CR										547	884	835	789	748	709	671	633	594

Station	Unit	Capacity	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
	2039	CR											561	906	855	809	766	727	688	648
	2040	CR												575	928	877	829	786	745	705
	2011	MC	931	891	851	812	772	733	693	654	0	0	0	0	0	0	0	0	0	0
	2012	MC	994	954	913	873	832	792	751	711	670	0	0	0	0	0	0	0	0	0
	2013	MC	1,061	1,019	978	936	895	853	811	770	728	687	0	0	0	0	0	0	0	0
	2014	MC	1,130	1,087	1,045	1,002	960	917	874	832	789	747	704	0	0	0	0	0	0	0
	2015	MC	1,202	1,158	1,115	1,071	1,027	984	940	896	853	809	765	722	0	0	0	0	0	0
	2016	MC	1,277	1,232	1,187	1,142	1,098	1,053	1,008	963	919	874	829	784	740	0	0	0	0	0
	2017	MC	1,381	1,309	1,263	1,217	1,171	1,125	1,079	1,033	987	942	896	850	804	758	0	0	0	0
	2018	MC	1,517	1,415	1,341	1,294	1,247	1,200	1,153	1,106	1,059	1,012	965	918	871	824	777	0	0	0
	2019	MC	1,659	1,555	1,451	1,375	1,327	1,278	1,230	1,182	1,134	1,086	1,037	989	941	893	845	797	0	0
	2020	MC	1,807	1,700	1,594	1,487	1,409	1,360	1,310	1,261	1,212	1,162	1,113	1,063	1,014	965	915	866	816	0
	2021	MC	1,961	1,852	1,743	1,634	1,524	1,444	1,394	1,343	1,292	1,242	1,191	1,141	1,090	1,039	989	938	887	837
	2022	MC	2,122	2,010	1,898	1,786	1,674	1,562	1,480	1,429	1,377	1,325	1,273	1,221	1,169	1,117	1,065	1,013	962	910
	2023	MC	2,290	2,175	2,060	1,946	1,831	1,716	1,601	1,518	1,464	1,411	1,358	1,305	1,252	1,198	1,145	1,092	1,039	986
	2024	MC	2,465	2,347	2,230	2,112	1,994	1,877	1,759	1,642	1,555	1,501	1,446	1,392	1,337	1,283	1,228	1,174	1,119	1,065
	2025	MC	2,651	2,526	2,406	2,285	2,165	2,044	1,924	1,803	1,683	1,594	1,538	1,483	1,427	1,371	1,315	1,259	1,203	1,147
	2026	MC	2,856	2,718	2,589	2,466	2,342	2,219	2,095	1,972	1,848	1,725	1,634	1,577	1,520	1,462	1,405	1,348	1,290	1,233
	2027	MC	3,081	2,928	2,786	2,654	2,528	2,401	2,274	2,148	2,021	1,894	1,768	1,675	1,616	1,558	1,499	1,440	1,381	1,323
	2028	MC	3,330	3,158	3,001	2,855	2,721	2,591	2,461	2,331	2,201	2,072	1,942	1,812	1,717	1,657	1,597	1,536	1,476	1,416
	2029	MC	2,338	3,413	3,237	3,076	2,927	2,789	2,656	2,522	2,389	2,256	2,123	1,990	1,857	1,760	1,698	1,636	1,575	1,513
	2030	MC		2,396	3,499	3,318	3,153	3,000	2,858	2,722	2,586	2,449	2,313	2,176	2,040	1,904	1,804	1,741	1,677	1,614
	2031	MC			2,456	3,586	3,401	3,232	3,075	2,930	2,790	2,650	2,510	2,371	2,231	2,091	1,951	1,849	1,784	1,719
	2032	MC				2,518	3,676	3,486	3,312	3,152	3,003	2,860	2,716	2,573	2,430	2,287	2,143	2,000	1,895	1,829
	2033	MC					2,580	3,768	3,573	3,395	3,231	3,078	2,931	2,784	2,637	2,491	2,344	2,197	2,050	1,943
	2034	MC						2,645	3,862	3,663	3,480	3,311	3,155	3,004	2,854	2,703	2,553	2,402	2,252	2,101
	2035	MC							2,711	3,958	3,754	3,567	3,394	3,234	3,080	2,925	2,771	2,617	2,462	2,308
	2036	MC								2,779	4,057	3,848	3,656	3,479	3,315	3,157	2,998	2,840	2,682	2,524
	2037	MC									2,848	4,159	3,944	3,748	3,566	3,398	3,236	3,073	2,911	2,749
	2038	MC										2,920	4,263	4,043	3,841	3,655	3,483	3,316	3,150	2,984
	2039	MC											2,993	4,369	4,144	3,937	3,746	3,570	3,399	3,229
	2040	MC												3,067	4,478	4,248	4,036	3,840	3,659	3,484
	2011	TC	179	175	170	165	161	156	152	147	142	138	133	128	124	119	114	110	105	101
	2012	TC	189	184	179	174	170	165	160	155	151	146	141	136	132	127	122	117	113	108
	2013	TC	198	193	188	184	179	174	169	164	159	154	149	145	140	135	130	125	120	115
	2014	TC	208	203	198	193	188	183	178	173	168	163	158	153	148	143	138	133	128	123
	2015	TC	218	213	208	203	198	193	188	183	178	172	167	162	157	152	147	142	137	131
	2016	TC	229	224	219	213	208	203	198	192	187	182	177	171	166	161	156	150	145	140
	2017	TC	245	235	230	224	219	213	208	203	197	192	187	181	176	170	165	160	154	149
	2018	TC	267	251	241	235	230	224	219	213	208	202	197	191	186	180	175	169	164	158
	2019	TC	290	274	258	247	241	235	230	224	219	213	207	202	196	190	185	179	173	168
	2020	TC	314	297	281	264	253	247	241	236	230	224	218	212	207	201	195	189	183	178
	2021	TC	338	321	305	288	271	259	253	247	241	236	230	224	218	212	206	200	194	188
	2022	TC	364	347	329	312	295	277	266	260	254	248	241	235	229	223	217	211	205	199
	2023	TC	391	373	355	338	320	302	284	272	266	260	254	247	241	235	229	223	216	210
	2024	TC	419	401	383	364	346	328	310	292	279	273	266	260	254	247	241	234	228	222
	2025	TC	449	429	411	392	373	355	336	317	299	286	280	273	267	260	253	247	240	234
	2026	TC	482	460	440	421	402	383	364	345	325	306	293	287	280	273	266	260	253	246
	2027	TC	519	494	472	451	432	412	392	373	353	334	314	301	294	287	280	273	266	259
	2028	TC	560	532	507	484	463	442	422	402	382	362	342	322	308	301	294	287	280	273
	2029	TC	438	574	545	519	496	474	453	433	412	392	371	350	330	316	309	301	294	287

Station	Unit	Capacity	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
	2030	TC		449	588	559	532	508	486	465	444	423	401	380	359	338	324	316	309	302
	2031	TC			461	603	573	546	521	498	476	455	433	411	390	368	347	332	324	317
	2032	TC				472	618	587	559	534	511	488	466	444	422	400	377	355	340	332
	2033	TC					484	633	602	573	547	523	501	478	455	432	410	387	364	349
	2034	TC						496	649	617	588	561	536	513	490	466	443	420	396	373
	2035	TC							508	665	632	602	575	550	526	502	478	454	430	406
	2036	TC								521	682	648	617	589	564	539	515	490	466	441
	2037	TC									534	699	664	633	604	578	553	527	502	477
	2038	TC										547	717	681	648	619	592	566	541	515
	2039	TC											561	735	698	665	634	607	580	554
	2040	TC												575	753	715	681	650	622	595
	2011	GH	1,309	1,271	1,233	1,195	1,158	1,120	1,082	1,044	1,007	969	931	893	856	818	780	742	704	667
	2012	GH	1,380	1,341	1,303	1,264	1,225	1,187	1,148	1,109	1,070	1,032	993	954	916	877	838	800	761	722
	2013	GH	1,454	1,415	1,375	1,335	1,296	1,256	1,216	1,177	1,137	1,097	1,058	1,018	978	939	899	859	819	780
	2014	GH	1,531	1,491	1,450	1,409	1,369	1,328	1,287	1,247	1,206	1,165	1,125	1,084	1,043	1,003	962	921	881	840
	2015	GH	1,611	1,570	1,528	1,486	1,445	1,403	1,361	1,320	1,278	1,236	1,194	1,153	1,111	1,069	1,028	986	944	903
	2016	GH	1,694	1,652	1,609	1,566	1,523	1,481	1,438	1,395	1,353	1,310	1,267	1,224	1,182	1,139	1,096	1,053	1,011	968
	2017	GH	1,817	1,737	1,693	1,649	1,605	1,562	1,518	1,474	1,430	1,386	1,343	1,299	1,255	1,211	1,167	1,124	1,080	1,036
	2018	GH	1,982	1,862	1,780	1,735	1,690	1,645	1,601	1,556	1,511	1,466	1,421	1,376	1,331	1,286	1,241	1,197	1,152	1,107
	2019	GH	2,154	2,032	1,909	1,825	1,779	1,733	1,687	1,641	1,595	1,549	1,503	1,457	1,410	1,364	1,318	1,272	1,226	1,180
	2020	GH	2,334	2,208	2,082	1,957	1,870	1,823	1,776	1,729	1,682	1,634	1,587	1,540	1,493	1,446	1,399	1,351	1,304	1,257
	2021	GH	2,521	2,392	2,263	2,134	2,006	1,917	1,869	1,820	1,772	1,724	1,675	1,627	1,579	1,530	1,482	1,434	1,385	1,337
	2022	GH	2,716	2,584	2,452	2,320	2,188	2,056	1,965	1,915	1,866	1,816	1,767	1,717	1,668	1,618	1,569	1,519	1,469	1,420
	2023	GH	2,920	2,784	2,649	2,513	2,378	2,243	2,107	2,014	1,963	1,912	1,862	1,811	1,760	1,709	1,659	1,608	1,557	1,506
	2024	GH	3,131	2,993	2,854	2,715	2,576	2,437	2,299	2,160	2,064	2,012	1,960	1,908	1,856	1,804	1,752	1,700	1,648	1,596
	2025	GH	3,358	3,210	3,067	2,925	2,783	2,641	2,498	2,356	2,214	2,116	2,063	2,009	1,956	1,903	1,849	1,796	1,742	1,689
	2026	GH	3,609	3,442	3,290	3,144	2,998	2,852	2,707	2,561	2,415	2,269	2,169	2,114	2,060	2,005	1,950	1,895	1,841	1,786
	2027	GH	3,886	3,699	3,528	3,372	3,223	3,073	2,924	2,774	2,625	2,475	2,326	2,223	2,167	2,111	2,055	1,999	1,943	1,887
	2028	GH	4,193	3,983	3,791	3,617	3,456	3,303	3,150	2,997	2,844	2,690	2,537	2,384	2,279	2,221	2,164	2,106	2,049	1,991
	2029	GH	3,214	4,298	4,082	3,886	3,707	3,543	3,386	3,229	3,072	2,915	2,758	2,601	2,444	2,336	2,277	2,218	2,159	2,100
	2030	GH		3,295	4,406	4,184	3,983	3,800	3,631	3,470	3,310	3,149	2,988	2,827	2,666	2,505	2,394	2,334	2,273	2,213
	2031	GH			3,377	4,516	4,289	4,083	3,895	3,722	3,557	3,392	3,227	3,062	2,897	2,732	2,567	2,454	2,392	2,330
	2032	GH				3,462	4,629	4,396	4,185	3,992	3,815	3,646	3,477	3,308	3,139	2,970	2,801	2,632	2,515	2,452
	2033	GH					3,548	4,744	4,506	4,289	4,092	3,911	3,737	3,564	3,391	3,217	3,044	2,871	2,697	2,578
	2034	GH						3,637	4,863	4,619	4,397	4,194	4,008	3,831	3,653	3,475	3,298	3,120	2,942	2,765
	2035	GH							3,728	4,984	4,734	4,507	4,299	4,109	3,927	3,744	3,562	3,380	3,198	3,016
	2036	GH								3,821	5,109	4,852	4,619	4,406	4,211	4,025	3,838	3,651	3,465	3,278
	2037	GH									3,917	5,237	4,974	4,735	4,517	4,317	4,125	3,934	3,743	3,551
	2038	GH										4,014	5,368	5,098	4,853	4,629	4,425	4,228	4,032	3,836
	2039	GH											4,115	5,502	5,226	4,974	4,745	4,535	4,334	4,133
	2040	GH												4,218	5,639	5,356	5,099	4,864	4,649	4,443
	2011	BR	297	288	279	271	262	253	244	235	226	218	209	200	191	182	173	165	156	147
	2012	BR	313	304	295	286	277	268	259	250	241	232	223	214	205	196	187	178	169	160
	2013	BR	331	321	312	303	293	284	275	266	256	247	238	229	219	210	201	191	182	173
	2014	BR	348	339	329	320	310	301	291	282	272	263	253	244	234	225	215	206	196	187
	2015	BR	367	357	347	338	328	318	308	299	289	279	269	260	250	240	230	221	211	201
	2016	BR	386	376	366	356	346	336	326	316	306	296	286	276	266	256	246	236	226	216
	2017	BR	406	396	385	375	365	355	344	334	324	314	303	293	283	273	263	252	242	232
	2018	BR	436	416	406	395	385	374	364	353	343	332	322	311	301	290	280	269	259	248
	2019	BR	476	447	426	416	405	394	383	373	362	351	340	330	319	308	297	287	276	265
	2020	BR	519	488	458	437	426	415	404	393	382	371	360	349	338	327	316	305	294	283

Station	Unit	Capacity	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
	2021	BR	563	532	500	469	448	437	425	414	403	391	380	369	358	346	335	324	312	301
	2022	BR	609	577	545	513	481	459	448	436	424	413	401	390	378	367	355	343	332	320
	2023	BR	657	624	591	559	526	493	471	459	447	435	423	411	399	388	376	364	352	340
	2024	BR	707	673	640	606	573	539	505	482	470	458	446	434	422	409	397	385	373	361
	2025	BR	760	725	690	656	621	587	552	518	495	482	470	457	445	432	420	407	395	382
	2026	BR	818	779	743	708	672	637	602	566	531	507	494	481	469	456	443	430	417	405
	2027	BR	884	839	798	761	725	689	653	617	580	544	520	506	493	480	467	454	441	428
	2028	BR	957	906	860	818	781	743	706	669	632	595	558	533	519	506	492	479	465	452
	2029	BR	731	981	928	881	839	800	762	724	686	648	610	572	546	532	518	505	491	477
	2030	BR		749	1,005	952	903	860	820	781	742	703	664	625	586	559	545	531	517	503
	2031	BR			768	1,031	975	926	881	841	801	761	721	681	641	601	573	559	545	530
	2032	BR				787	1,056	1,000	949	903	862	821	780	739	698	657	616	588	573	558
	2033	BR					806	1,083	1,025	973	926	883	841	799	757	715	673	631	603	587
	2034	BR						827	1,110	1,050	997	949	905	862	819	776	733	690	647	618
	2035	BR							847	1,138	1,077	1,022	973	928	884	840	795	751	707	663
	2036	BR								868	1,166	1,104	1,048	997	951	906	861	815	770	725
	2037	BR									890	1,195	1,131	1,074	1,022	975	928	882	836	789
	2038	BR										912	1,225	1,160	1,101	1,047	999	952	904	857
	2039	BR											935	1,256	1,189	1,128	1,074	1,024	975	927
	2040	BR												959	1,287	1,218	1,156	1,100	1,050	1,000
	2011	GR	58	56	54	52	49	47	45	42	40	38	0	0	0	0	0	0	0	0
	2012	GR	62	60	58	55	53	51	48	46	44	41	39	0	0	0	0	0	0	0
	2013	GR	66	64	61	59	57	54	52	49	47	45	42	40	0	0	0	0	0	0
	2014	GR	70	68	65	63	61	58	56	53	51	48	46	43	41	0	0	0	0	0
	2015	GR	75	72	70	67	65	62	60	57	54	52	49	47	44	42	0	0	0	0
	2016	GR	79	77	74	71	69	66	64	61	58	56	53	51	48	45	43	0	0	0
	2017	GR	84	81	78	76	73	70	68	65	63	60	57	55	52	49	47	44	0	0
	2018	GR	90	86	83	80	78	75	72	70	67	64	61	59	56	53	50	48	45	0
	2019	GR	99	93	88	85	82	80	77	74	71	68	66	63	60	57	55	52	49	46
	2020	GR	108	102	95	90	87	84	82	79	76	73	70	67	64	62	59	56	53	50
	2021	GR	118	111	104	97	92	90	87	84	81	78	75	72	69	66	63	60	57	54
	2022	GR	128	121	114	107	100	95	92	89	86	83	80	77	74	71	68	65	62	59
	2023	GR	139	131	124	117	110	102	97	94	91	88	85	82	79	76	72	69	66	63
	2024	GR	150	142	135	127	120	112	105	100	96	93	90	87	84	81	77	74	71	68
	2025	GR	161	153	146	138	130	123	115	107	102	99	96	92	89	86	83	79	76	73
	2026	GR	174	165	157	149	141	134	126	118	110	105	101	98	95	91	88	85	81	78
	2027	GR	188	178	169	161	153	145	137	129	121	113	107	104	100	97	94	90	87	83
	2028	GR	204	193	183	173	165	157	149	140	132	124	116	110	106	103	99	96	92	89
	2029	GR	146	209	197	187	178	169	161	152	144	135	127	119	113	109	105	102	98	95
	2030	GR		150	214	202	192	182	173	165	156	148	139	130	122	115	112	108	104	101
	2031	GR			154	219	207	197	187	178	169	160	151	142	133	125	118	115	111	107
	2032	GR				157	225	212	201	191	182	173	164	155	146	137	128	121	117	114
	2033	GR					161	230	218	206	196	187	177	168	159	150	140	131	124	120
	2034	GR						165	236	223	212	201	191	182	172	163	153	144	134	127
	2035	GR							169	242	229	217	206	196	186	177	167	157	147	138
	2036	GR								174	248	235	222	211	201	191	181	171	161	151
	2037	GR									178	254	240	228	217	206	196	186	175	165
	2038	GR										182	261	246	234	222	211	201	190	180
	2039	GR											187	267	253	239	228	217	206	195
	2040	GR												192	274	259	245	233	222	211
	2011	TY	58	56	53	51	48	46	43	41	0	0	0	0	0	0	0	0	0	0

Station	Unit	Capacity	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
	2012	TY	62	60	57	55	52	49	47	44	42	0	0	0	0	0	0	0	0	0
	2013	TY	66	64	61	59	56	53	51	48	46	43	0	0	0	0	0	0	0	0
	2014	TY	71	68	65	63	60	57	55	52	49	47	44	0	0	0	0	0	0	0
	2015	TY	75	72	70	67	64	61	59	56	53	51	48	45	0	0	0	0	0	0
	2016	TY	80	77	74	71	69	66	63	60	57	55	52	49	46	0	0	0	0	0
	2017	TY	85	82	79	76	73	70	67	65	62	59	56	53	50	47	0	0	0	0
	2018	TY	92	87	84	81	78	75	72	69	66	63	60	57	54	52	49	0	0	0
	2019	TY	101	94	89	86	83	80	77	74	71	68	65	62	59	56	53	50	0	0
	2020	TY	110	103	96	91	88	85	82	79	76	73	70	66	63	60	57	54	51	0
	2021	TY	120	113	106	99	93	90	87	84	81	78	74	71	68	65	62	59	55	52
	2022	TY	130	123	116	108	101	96	93	89	86	83	80	76	73	70	67	63	60	57
	2023	TY	141	134	126	119	111	104	98	95	92	88	85	82	78	75	72	68	65	62
	2024	TY	152	145	137	129	122	114	106	101	97	94	90	87	84	80	77	73	70	67
	2025	TY	164	156	148	140	133	125	117	109	103	100	96	93	89	86	82	79	75	72
	2026	TY	177	168	160	152	144	136	128	120	112	106	102	99	95	91	88	84	81	77
	2027	TY	192	182	172	164	156	148	139	131	123	114	108	105	101	97	94	90	86	83
	2028	TY	208	196	186	177	168	160	151	143	134	126	117	111	107	104	100	96	92	89
	2029	TY	146	213	201	191	181	172	164	155	146	138	129	120	114	110	106	102	98	95
	2030	TY		150	218	206	196	186	177	168	159	150	141	132	123	117	113	109	105	101
	2031	TY			154	224	212	201	190	181	172	163	154	145	135	126	120	116	112	107
	2032	TY				157	229	217	206	195	186	176	167	158	148	139	129	123	118	114
	2033	TY					161	235	222	211	200	190	181	171	161	152	142	133	126	121
	2034	TY						165	241	228	216	205	195	185	175	165	156	146	136	129
	2035	TY							169	247	234	221	210	200	190	180	170	160	149	139
	2036	TY								174	253	239	227	215	205	195	184	174	164	153
	2037	TY									178	259	245	233	221	210	199	189	178	168
	2038	TY										182	266	252	238	226	215	204	194	183
	2039	TY											187	273	258	244	232	221	210	198
	2040	TY												192	279	264	250	238	226	215

Station	Unit	Capacity	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059
BR	BR1	101	1,867	1,770	1,678	1,591	1,510	1,434	1,361	1,290	1,219	1,149	1,080	1,013	946
BR	BR2	167	3,087	2,926	2,774	2,631	2,496	2,371	2,251	2,132	2,015	1,900	1,787	1,675	1,564
BR	BR3	416	7,689	7,289	6,910	6,553	6,218	5,906	5,607	5,312	5,021	4,733	4,450	4,171	3,897
CR	CR4	155	1,421	1,269	1,125	988	859	738	623	511	402	297	194	95	0
CR	CR5	168	1,540	1,375	1,219	1,071	931	800	675	554	436	322	211	103	0
CR	CR6	240	2,200	1,965	1,741	1,529	1,330	1,143	965	792	623	459	301	148	0
GH	GH1	475	14,098	13,375	12,686	12,033	11,415	10,834	10,291	9,770	9,256	8,749	8,249	7,755	7,269
GH	GH2	484	14,365	13,628	12,927	12,261	11,631	11,039	10,486	9,956	9,432	8,915	8,405	7,902	7,407
GH	GH3	480	14,246	13,516	12,820	12,159	11,535	10,948	10,399	9,873	9,354	8,841	8,336	7,837	7,346
GH	GH4	479	14,217	13,488	12,793	12,134	11,511	10,925	10,378	9,853	9,334	8,823	8,318	7,821	7,331
GR	GR3	68	922	860	801	745	692	643	595	549	504	459	415	373	331
GR	GR4	95	1,288	1,201	1,118	1,040	967	898	832	767	704	641	580	521	462
MC	MC1	303	7,053	6,531	6,033	5,559	5,110	4,687	4,290	3,910	3,538	3,173	2,817	2,468	2,128
MC	MC2	301	7,007	6,488	5,993	5,523	5,077	4,656	4,262	3,884	3,515	3,152	2,798	2,452	2,114
MC	MC3	391	9,102	8,428	7,785	7,174	6,595	6,048	5,536	5,046	4,565	4,095	3,635	3,185	2,746
MC	MC4	477	11,104	10,282	9,498	8,752	8,045	7,379	6,754	6,156	5,570	4,996	4,434	3,886	3,350
TC	TC1	383	3,222	3,101	2,986	2,878	2,777	2,652	2,536	2,425	2,315	2,206	2,099	1,993	1,888
TC	TC2	549	4,618	4,445	4,280	4,125	3,980	3,802	3,636	3,476	3,319	3,163	3,009	2,857	2,706
TY	TY3	71	2,117	1,962	1,814	1,675	1,543	1,420	1,303	1,187	1,074	964	855	749	646

2.50%

2011	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2012	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2013	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2014	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2015	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2016	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2017	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2018	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2019	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2020	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2021	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2022	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2023	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2024	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2025	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2026	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2027	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2028	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2029	CR	264	0	0	0	0	0	0	0	0	0	0	0	0
2030	CR	287	271	0	0	0	0	0	0	0	0	0	0	0
2031	CR	311	294	278	0	0	0	0	0	0	0	0	0	0
2032	CR	336	319	302	285	0	0	0	0	0	0	0	0	0
2033	CR	363	345	327	309	292	0	0	0	0	0	0	0	0
2034	CR	390	372	353	335	317	299	0	0	0	0	0	0	0
2035	CR	418	400	381	362	344	325	306	0	0	0	0	0	0
2036	CR	456	429	410	390	371	352	333	314	0	0	0	0	0
2037	CR	505	468	439	420	400	381	361	342	322	0	0	0	0
2038	CR	556	518	480	450	430	410	390	370	350	330	0	0	0

Station	Unit	Capacity	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059
	2039	CR	609	570	531	492	462	441	421	400	379	359	338	0	0
	2040	CR	665	624	584	544	504	473	452	431	410	389	368	347	0
	2011	MC	0	0	0	0	0	0	0	0	0	0	0	0	0
	2012	MC	0	0	0	0	0	0	0	0	0	0	0	0	0
	2013	MC	0	0	0	0	0	0	0	0	0	0	0	0	0
	2014	MC	0	0	0	0	0	0	0	0	0	0	0	0	0
	2015	MC	0	0	0	0	0	0	0	0	0	0	0	0	0
	2016	MC	0	0	0	0	0	0	0	0	0	0	0	0	0
	2017	MC	0	0	0	0	0	0	0	0	0	0	0	0	0
	2018	MC	0	0	0	0	0	0	0	0	0	0	0	0	0
	2019	MC	0	0	0	0	0	0	0	0	0	0	0	0	0
	2020	MC	0	0	0	0	0	0	0	0	0	0	0	0	0
	2021	MC	0	0	0	0	0	0	0	0	0	0	0	0	0
	2022	MC	858	0	0	0	0	0	0	0	0	0	0	0	0
	2023	MC	932	879	0	0	0	0	0	0	0	0	0	0	0
	2024	MC	1,010	956	901	0	0	0	0	0	0	0	0	0	0
	2025	MC	1,091	1,035	980	924	0	0	0	0	0	0	0	0	0
	2026	MC	1,176	1,119	1,061	1,004	947	0	0	0	0	0	0	0	0
	2027	MC	1,264	1,205	1,147	1,088	1,029	970	0	0	0	0	0	0	0
	2028	MC	1,356	1,296	1,235	1,175	1,115	1,055	995	0	0	0	0	0	0
	2029	MC	1,451	1,390	1,328	1,266	1,205	1,143	1,081	1,020	0	0	0	0	0
	2030	MC	1,551	1,488	1,424	1,361	1,298	1,235	1,172	1,108	1,045	0	0	0	0
	2031	MC	1,655	1,590	1,525	1,460	1,395	1,330	1,266	1,201	1,136	1,071	0	0	0
	2032	MC	1,762	1,696	1,629	1,563	1,497	1,430	1,364	1,297	1,231	1,164	1,098	0	0
	2033	MC	1,874	1,806	1,738	1,670	1,602	1,534	1,466	1,398	1,330	1,262	1,194	1,125	0
	2034	MC	1,991	1,921	1,852	1,782	1,712	1,642	1,572	1,503	1,433	1,363	1,293	1,223	1,154
	2035	MC	2,154	2,041	1,969	1,898	1,826	1,755	1,683	1,612	1,540	1,469	1,397	1,325	1,254
	2036	MC	2,366	2,208	2,092	2,019	1,945	1,872	1,799	1,725	1,652	1,579	1,505	1,432	1,359
	2037	MC	2,587	2,425	2,263	2,144	2,069	1,994	1,919	1,844	1,768	1,693	1,618	1,543	1,468
	2038	MC	2,818	2,652	2,486	2,319	2,198	2,121	2,044	1,967	1,890	1,813	1,736	1,659	1,581
	2039	MC	3,059	2,888	2,718	2,548	2,377	2,253	2,174	2,095	2,016	1,937	1,858	1,779	1,700
	2040	MC	3,310	3,135	2,961	2,786	2,611	2,437	2,309	2,228	2,147	2,066	1,985	1,904	1,823
	2011	TC	96	91	87	82	77	0	0	0	0	0	0	0	0
	2012	TC	103	98	94	89	84	79	0	0	0	0	0	0	0
	2013	TC	111	106	101	96	91	86	81	0	0	0	0	0	0
	2014	TC	118	113	108	103	98	93	88	83	0	0	0	0	0
	2015	TC	126	121	116	111	106	101	96	91	85	0	0	0	0
	2016	TC	135	130	124	119	114	109	103	98	93	88	0	0	0
	2017	TC	144	138	133	127	122	117	111	106	101	95	90	0	0
	2018	TC	153	147	142	136	131	125	120	114	109	103	98	92	0
	2019	TC	162	156	151	145	139	134	128	123	117	111	106	100	94
	2020	TC	172	166	160	155	149	143	137	131	126	120	114	108	102
	2021	TC	182	176	170	164	158	152	147	141	135	129	123	117	111
	2022	TC	193	187	181	175	168	162	156	150	144	138	132	126	120
	2023	TC	204	198	191	185	179	173	166	160	154	148	141	135	129
	2024	TC	215	209	203	196	190	183	177	171	164	158	151	145	139
	2025	TC	227	221	214	208	201	194	188	181	175	168	162	155	149
	2026	TC	240	233	226	219	213	206	199	193	186	179	173	166	159
	2027	TC	253	246	239	232	225	218	211	204	197	191	184	177	170
	2028	TC	266	259	252	245	238	231	224	217	209	202	195	188	181
	2029	TC	280	273	265	258	251	244	236	229	222	215	207	200	193

Station	Unit	Capacity	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059
	2030	TC	294	287	279	272	265	257	250	242	235	227	220	213	205
	2031	TC	309	302	294	286	279	271	264	256	248	241	233	226	218
	2032	TC	325	317	309	301	293	286	278	270	262	255	247	239	231
	2033	TC	341	333	325	317	309	301	293	285	277	269	261	253	245
	2034	TC	357	349	341	333	325	317	308	300	292	284	276	267	259
	2035	TC	382	366	358	350	341	333	324	316	308	299	291	283	274
	2036	TC	417	392	376	367	358	350	341	333	324	315	307	298	290
	2037	TC	452	427	402	385	376	367	358	350	341	332	323	314	306
	2038	TC	489	463	438	412	395	385	376	367	358	349	340	331	322
	2039	TC	528	501	475	449	422	404	395	386	377	367	358	349	340
	2040	TC	568	541	514	487	460	433	414	405	396	386	377	367	358
	2011	GH	629	0	0	0	0	0	0	0	0	0	0	0	0
	2012	GH	683	645	0	0	0	0	0	0	0	0	0	0	0
	2013	GH	740	700	661	0	0	0	0	0	0	0	0	0	0
	2014	GH	799	759	718	677	0	0	0	0	0	0	0	0	0
	2015	GH	861	819	778	736	694	0	0	0	0	0	0	0	0
	2016	GH	925	882	840	797	754	712	0	0	0	0	0	0	0
	2017	GH	992	948	905	861	817	773	729	0	0	0	0	0	0
	2018	GH	1,062	1,017	972	927	882	837	792	748	0	0	0	0	0
	2019	GH	1,134	1,088	1,042	996	950	904	858	812	766	0	0	0	0
	2020	GH	1,210	1,163	1,116	1,068	1,021	974	927	880	833	785	0	0	0
	2021	GH	1,289	1,240	1,192	1,143	1,095	1,047	998	950	902	853	805	0	0
	2022	GH	1,370	1,321	1,271	1,222	1,172	1,123	1,073	1,023	974	924	875	825	0
	2023	GH	1,455	1,405	1,354	1,303	1,252	1,201	1,151	1,100	1,049	998	947	897	846
	2024	GH	1,544	1,492	1,440	1,388	1,336	1,283	1,231	1,179	1,127	1,075	1,023	971	919
	2025	GH	1,636	1,582	1,529	1,476	1,422	1,369	1,316	1,262	1,209	1,155	1,102	1,049	995
	2026	GH	1,731	1,677	1,622	1,567	1,513	1,458	1,403	1,348	1,294	1,239	1,184	1,130	1,075
	2027	GH	1,831	1,775	1,719	1,662	1,606	1,550	1,494	1,438	1,382	1,326	1,270	1,214	1,158
	2028	GH	1,934	1,876	1,819	1,762	1,704	1,647	1,589	1,532	1,474	1,417	1,359	1,302	1,244
	2029	GH	2,041	1,982	1,923	1,864	1,806	1,747	1,688	1,629	1,570	1,511	1,452	1,393	1,334
	2030	GH	2,153	2,092	2,032	1,971	1,911	1,851	1,790	1,730	1,670	1,609	1,549	1,488	1,428
	2031	GH	2,268	2,206	2,144	2,083	2,021	1,959	1,897	1,835	1,773	1,711	1,649	1,588	1,526
	2032	GH	2,388	2,325	2,262	2,198	2,135	2,071	2,008	1,944	1,881	1,818	1,754	1,691	1,627
	2033	GH	2,513	2,448	2,383	2,318	2,253	2,188	2,123	2,058	1,993	1,928	1,863	1,798	1,733
	2034	GH	2,643	2,576	2,509	2,443	2,376	2,309	2,243	2,176	2,109	2,043	1,976	1,910	1,843
	2035	GH	2,834	2,709	2,640	2,572	2,504	2,435	2,367	2,299	2,231	2,162	2,094	2,026	1,957
	2036	GH	3,091	2,905	2,776	2,706	2,636	2,566	2,496	2,426	2,356	2,286	2,216	2,146	2,076
	2037	GH	3,360	3,169	2,977	2,846	2,774	2,702	2,630	2,559	2,487	2,415	2,343	2,272	2,200
	2038	GH	3,640	3,444	3,248	3,052	2,917	2,843	2,770	2,696	2,623	2,549	2,476	2,402	2,328
	2039	GH	3,932	3,731	3,530	3,329	3,128	2,990	2,914	2,839	2,764	2,688	2,613	2,537	2,462
	2040	GH	4,236	4,030	3,824	3,618	3,412	3,206	3,065	2,987	2,910	2,833	2,755	2,678	2,601
	2011	BR	0	0	0	0	0	0	0	0	0	0	0	0	0
	2012	BR	151	0	0	0	0	0	0	0	0	0	0	0	0
	2013	BR	164	154	0	0	0	0	0	0	0	0	0	0	0
	2014	BR	177	168	158	0	0	0	0	0	0	0	0	0	0
	2015	BR	191	182	172	162	0	0	0	0	0	0	0	0	0
	2016	BR	206	196	186	176	166	0	0	0	0	0	0	0	0
	2017	BR	222	211	201	191	181	170	0	0	0	0	0	0	0
	2018	BR	238	227	217	206	196	185	175	0	0	0	0	0	0
	2019	BR	254	244	233	222	211	201	190	179	0	0	0	0	0
	2020	BR	272	261	250	239	228	217	206	195	183	0	0	0	0

Station	Unit	Capacity	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059
	2021	BR	290	278	267	256	245	233	222	211	199	188	0	0	0
	2022	BR	309	297	285	274	262	251	239	228	216	204	193	0	0
	2023	BR	328	316	304	293	281	269	257	245	233	221	209	198	0
	2024	BR	349	336	324	312	300	288	276	263	251	239	227	215	203
	2025	BR	370	357	345	332	320	307	295	282	270	257	245	233	220
	2026	BR	392	379	366	353	341	328	315	302	290	277	264	251	238
	2027	BR	415	402	388	375	362	349	336	323	310	297	284	271	257
	2028	BR	438	425	412	398	385	371	358	344	331	318	304	291	277
	2029	BR	463	449	436	422	408	394	381	367	353	339	326	312	298
	2030	BR	489	475	461	447	432	418	404	390	376	362	348	334	320
	2031	BR	516	501	487	472	458	443	429	414	400	385	371	356	342
	2032	BR	543	529	514	499	484	469	454	440	425	410	395	380	365
	2033	BR	572	557	542	527	511	496	481	466	451	435	420	405	390
	2034	BR	602	586	571	555	540	524	509	493	477	462	446	431	415
	2035	BR	633	617	601	585	569	553	537	521	505	489	473	457	441
	2036	BR	680	649	632	616	600	583	567	551	534	518	502	485	469
	2037	BR	743	697	665	648	632	615	598	581	564	548	531	514	497
	2038	BR	809	762	714	682	664	647	630	613	596	579	561	544	527
	2039	BR	878	829	781	732	699	681	663	646	628	611	593	575	558
	2040	BR	950	900	850	800	750	716	698	680	662	644	626	608	590
	2011	GR	0	0	0	0	0	0	0	0	0	0	0	0	0
	2012	GR	0	0	0	0	0	0	0	0	0	0	0	0	0
	2013	GR	0	0	0	0	0	0	0	0	0	0	0	0	0
	2014	GR	0	0	0	0	0	0	0	0	0	0	0	0	0
	2015	GR	0	0	0	0	0	0	0	0	0	0	0	0	0
	2016	GR	0	0	0	0	0	0	0	0	0	0	0	0	0
	2017	GR	0	0	0	0	0	0	0	0	0	0	0	0	0
	2018	GR	0	0	0	0	0	0	0	0	0	0	0	0	0
	2019	GR	0	0	0	0	0	0	0	0	0	0	0	0	0
	2020	GR	47	0	0	0	0	0	0	0	0	0	0	0	0
	2021	GR	51	48	0	0	0	0	0	0	0	0	0	0	0
	2022	GR	56	53	50	0	0	0	0	0	0	0	0	0	0
	2023	GR	60	57	54	51	0	0	0	0	0	0	0	0	0
	2024	GR	65	62	59	55	52	0	0	0	0	0	0	0	0
	2025	GR	70	66	63	60	57	54	0	0	0	0	0	0	0
	2026	GR	75	71	68	65	61	58	55	0	0	0	0	0	0
	2027	GR	80	77	73	70	66	63	60	56	0	0	0	0	0
	2028	GR	86	82	79	75	72	68	65	61	58	0	0	0	0
	2029	GR	91	88	84	81	77	73	70	66	63	59	0	0	0
	2030	GR	97	93	90	86	83	79	75	72	68	64	61	0	0
	2031	GR	103	100	96	92	88	85	81	77	73	70	66	62	0
	2032	GR	110	106	102	98	94	91	87	83	79	75	71	67	64
	2033	GR	116	113	109	105	101	97	93	89	85	81	77	73	69
	2034	GR	123	119	115	111	107	103	99	95	91	87	83	79	75
	2035	GR	131	126	122	118	114	110	106	102	98	93	89	85	81
	2036	GR	141	134	130	125	121	117	113	108	104	100	96	91	87
	2037	GR	155	145	137	133	129	124	120	115	111	107	102	98	94
	2038	GR	169	159	148	141	136	132	127	123	118	114	109	105	101
	2039	GR	184	173	163	152	144	140	135	130	126	121	117	112	108
	2040	GR	200	189	178	167	156	148	143	138	134	129	124	120	115
	2011	TY	0	0	0	0	0	0	0	0	0	0	0	0	0

Station	Unit	Capacity	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059
	2012	TY	0	0	0	0	0	0	0	0	0	0	0	0	0
	2013	TY	0	0	0	0	0	0	0	0	0	0	0	0	0
	2014	TY	0	0	0	0	0	0	0	0	0	0	0	0	0
	2015	TY	0	0	0	0	0	0	0	0	0	0	0	0	0
	2016	TY	0	0	0	0	0	0	0	0	0	0	0	0	0
	2017	TY	0	0	0	0	0	0	0	0	0	0	0	0	0
	2018	TY	0	0	0	0	0	0	0	0	0	0	0	0	0
	2019	TY	0	0	0	0	0	0	0	0	0	0	0	0	0
	2020	TY	0	0	0	0	0	0	0	0	0	0	0	0	0
	2021	TY	0	0	0	0	0	0	0	0	0	0	0	0	0
	2022	TY	54	0	0	0	0	0	0	0	0	0	0	0	0
	2023	TY	58	55	0	0	0	0	0	0	0	0	0	0	0
	2024	TY	63	60	56	0	0	0	0	0	0	0	0	0	0
	2025	TY	68	65	61	58	0	0	0	0	0	0	0	0	0
	2026	TY	73	70	66	63	59	0	0	0	0	0	0	0	0
	2027	TY	79	75	72	68	64	61	0	0	0	0	0	0	0
	2028	TY	85	81	77	73	70	66	62	0	0	0	0	0	0
	2029	TY	91	87	83	79	75	71	68	64	0	0	0	0	0
	2030	TY	97	93	89	85	81	77	73	69	65	0	0	0	0
	2031	TY	103	99	95	91	87	83	79	75	71	67	0	0	0
	2032	TY	110	106	102	98	94	89	85	81	77	73	69	0	0
	2033	TY	117	113	109	104	100	96	92	87	83	79	75	70	0
	2034	TY	124	120	116	111	107	103	98	94	90	85	81	76	72
	2035	TY	132	128	123	119	114	110	105	101	96	92	87	83	78
	2036	TY	143	135	131	126	122	117	112	108	103	99	94	89	85
	2037	TY	157	146	139	134	129	125	120	115	111	106	101	96	92
	2038	TY	172	161	150	142	137	133	128	123	118	113	108	104	99
	2039	TY	187	176	165	154	146	141	136	131	126	121	116	111	106
	2040	TY	203	192	180	169	158	149	144	139	134	129	124	119	114

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Station	Unit	Capacity	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
BR	BR1	101	0	0	0	0	0	441	454	590	616	785	787	789	1,035	1,054	1,357	1,337	1,319
BR	BR2	167	0	0	0	0	0	729	751	975	1,018	1,299	1,301	1,305	1,711	1,743	2,245	2,211	2,180
BR	BR3	416	0	0	0	0	0	1,816	1,870	2,430	2,536	3,235	3,242	3,252	4,261	4,342	5,591	5,508	5,431
CR	CR4	155	258	840	1,124	1,095	1,216	1,960	1,949	1,644	1,927	2,572	2,560	2,096	2,059	2,073	1,531	1,768	1,810
CR	CR5	168	279	910	1,219	1,187	1,318	2,124	2,112	1,782	2,089	2,788	2,774	2,272	2,232	2,247	1,659	1,916	1,962
CR	CR6	240	399	1,300	1,741	1,696	1,882	5,221	5,152	4,566	4,899	5,799	5,682	4,867	4,712	4,637	3,700	3,969	3,960
GH	GH1	475	0	0	0	0	0	5,620	5,988	6,566	7,371	8,085	8,761	9,219	9,707	10,790	12,508	14,281	15,439
GH	GH2	484	0	0	0	0	0	5,727	6,101	6,691	7,510	8,238	8,927	9,394	9,891	10,994	12,745	14,551	15,732
GH	GH3	480	0	0	0	0	0	5,680	6,051	6,635	7,448	8,170	8,854	9,316	9,809	10,904	12,640	14,431	15,602
GH	GH4	479	0	0	0	0	0	5,668	6,038	6,622	7,433	8,153	8,835	9,297	9,789	10,881	12,614	14,401	15,569
GR	GR3	68																	
GR	GR4	95																	
MC	MC1	303																	
MC	MC2	301																	
MC	MC3	391																	
MC	MC4	477																	
TC	TC1	383	0	0	0	0	0	1,965	2,066	2,172	2,216	2,260	2,305	2,351	2,398	2,446	2,495	2,545	2,596
TC	TC2	549	0	0	0	0	0	2,817	2,961	3,114	3,176	3,240	3,304	3,371	3,438	3,507	3,577	3,648	3,721
TY	TY3	71																	
BR Landfill Phase 2 Savings			0	0	0	0	0	0	0	828	908	1,960	1,870	1,782	1,697	1,613	1,531	1,451	1,372
BR Landfill Phase 3 Savings			0	0	0	0	0	0	0	0	0	0	0	0	1,638	1,745	3,767	3,594	3,426
BR Landfill O&M Savings			0	0	0	0	0	2,985	3,075	3,167	3,262	3,360	3,461	3,564	3,671	3,781	3,895	4,012	4,132
CR Landfill Capital Savings			936	3,049	4,083	3,979	4,416	4,938	4,772	3,579	4,464	6,617	6,353	4,493	4,170	4,023	1,844	2,496	2,513
CR Landfill O&M Savings			0	0	0	0	0	2,181	2,307	2,393	2,537	2,726	2,944	3,121	3,308	3,507	3,717	3,925	4,061
CR6 Stator Rewind Savings			0	0	0	0	0	2,187	2,135	2,020	1,914	1,816	1,719	1,621	1,524	1,427	1,329	1,232	1,158
GH Landfill Capital Savings			0	0	0	0	0	61	188	1,083	2,805	4,044	4,399	4,388	4,387	6,672	11,397	16,206	18,397
GH Landfill O&M Savings			0	0	0	0	0	22,633	23,991	25,431	26,957	28,601	30,979	32,838	34,808	36,897	39,110	41,457	43,944
TC Landfill Capital Savings			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TC Landfill O&M Savings			0	0	0	0	0	4,782	5,027	5,286	5,392	5,500	5,610	5,722	5,836	5,953	6,072	6,194	6,318

Station	Unit	Capacity	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
BR	BR1	101	1,301	1,285	1,267	1,122	410	385	360	331	54	46	38	30	23
BR	BR2	167	2,151	2,124	2,095	1,855	678	636	595	547	89	76	63	50	39
BR	BR3	416	5,359	5,291	5,219	4,620	1,688	1,585	1,482	1,363	222	189	157	124	97
CR	CR4	155	1,869	1,932	2,000	1,861	1,810	1,778	1,748	1,719	1,692	1,708	1,727	1,747	1,771
CR	CR5	168	2,025	2,094	2,168	2,017	1,962	1,927	1,895	1,864	1,834	1,851	1,872	1,894	1,919
CR	CR6	240	4,000	4,047	4,101	3,833	3,704	3,602	2,777	2,662	2,620	2,645	2,674	2,705	2,742
GH	GH1	475	15,604	16,273	16,860	17,332	17,856	18,548	19,372	20,254	21,186	21,692	2,492	1,854	1,700
GH	GH2	484	15,900	16,581	17,180	17,660	18,195	18,899	19,739	20,637	21,587	22,103	2,539	1,889	1,733
GH	GH3	480	15,769	16,444	17,038	17,514	18,044	18,743	19,576	20,467	21,409	21,921	2,518	1,874	1,718
GH	GH4	479	15,736	16,410	17,002	17,478	18,007	18,704	19,535	20,424	21,364	21,875	2,513	1,870	1,715
GR	GR3	68													
GR	GR4	95													
MC	MC1	303													
MC	MC2	301													
MC	MC3	391													
MC	MC4	477													
TC	TC1	383	2,648	5,363	8,239	8,294	12,354	12,003	11,666	11,343	11,031	10,731	10,442	10,162	9,886
TC	TC2	549	3,796	7,687	11,809	11,888	17,709	17,206	16,723	16,259	15,812	15,382	14,967	14,567	14,170
TY	TY3	71													
		BR Landfill Phase 2 Savings	1,294	1,215	1,123	156	138	120	101	83	64	46	28	9	0
		BR Landfill Phase 3 Savings	3,261	3,101	2,943	2,789	2,638	2,487	2,336	2,158	301	265	230	194	159
		BR Landfill O&M Savings	4,256	4,384	4,515	4,651									
		CR Landfill Capital Savings	2,483	2,455	2,429	1,631	1,345	1,123	908	695	485	430	384	338	303
		CR Landfill O&M Savings	4,305	4,563	4,837	5,128	5,230	5,335	5,441	5,550	5,661	5,774	5,890	6,008	6,128
		CR6 Stator Rewind Savings	1,106	1,055	1,004	952	901	850	70	0	0	0	0	0	0
		GH Landfill Capital Savings	18,341	18,358	17,892	16,784	15,709	15,118	14,860	14,617	14,352	12,126	9,906	7,329	6,705
		GH Landfill O&M Savings	44,668	47,348	50,189	53,201	56,393	59,776	63,363	67,165	71,194	75,466	155	158	161
		TC Landfill Capital Savings	0	6,478	13,344	13,344	23,088	22,094	21,132	20,199	19,293	18,412	17,554	16,717	15,883
		TC Landfill O&M Savings	6,444	6,573	6,704	6,838	6,975	7,115	7,257	7,402	7,550	7,701	7,855	8,012	8,172

Station	Unit	Capacity	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
			$000																	
BR	BR1	101	0	0	0	553	743	703	668	635	606	577	548	519	491	462	433	413	403	393
BR	BR2	167	0	0	0	915	1,228	1,163	1,104	1,050	1,002	954	907	859	811	764	716	684	666	649
BR	BR3	416	0	0	0	2,279	3,060	2,897	2,749	2,616	2,496	2,377	2,258	2,140	2,021	1,902	1,784	1,703	1,660	1,617
CR	CR4	155	0	0	0	980	1,582	1,494	1,413	1,339	1,269	1,201	1,132	1,064	996	927	859	806	770	735
CR	CR5	168	0	0	0	1,062	1,715	1,619	1,532	1,451	1,376	1,302	1,227	1,153	1,079	1,005	931	874	835	796
CR	CR6	240	0	0	0	1,518	2,449	2,313	2,188	2,073	1,966	1,860	1,754	1,647	1,541	1,435	1,329	1,249	1,193	1,137
GH	GH1	475	0	0	0	1,462	1,954	1,856	1,767	1,686	1,611	1,540	1,468	1,397	1,325	1,254	1,183	1,111	1,062	1,035
GH	GH2	484	0	0	0	1,489	1,991	1,891	1,800	1,718	1,642	1,569	1,496	1,423	1,350	1,278	1,205	1,132	1,082	1,055
GH	GH3	480	0	0	0	1,477	1,975	1,876	1,786	1,703	1,628	1,556	1,484	1,411	1,339	1,267	1,195	1,123	1,073	1,046
GH	GH4	479	0	0	0	1,474	1,971	1,872	1,782	1,700	1,625	1,553	1,481	1,409	1,337	1,265	1,193	1,121	1,071	1,044
GR	GR3	68	0	0	0	586	837	792	751	713	679	645	611	577	544	510	476	452	438	423
GR	GR4	95	0	0	0	819	1,169	1,106	1,049	996	948	901	854	807	759	712	665	631	611	591
MC	MC1	303	0	0	0	1,215	1,774	1,682	1,598	1,521	1,449	1,380	1,311	1,242	1,173	1,103	1,034	965	915	882
MC	MC2	301	0	0	0	1,207	1,762	1,671	1,588	1,511	1,440	1,371	1,302	1,234	1,165	1,096	1,027	959	908	877
MC	MC3	391	0	0	0	1,568	2,289	2,171	2,063	1,963	1,870	1,781	1,692	1,602	1,513	1,424	1,335	1,245	1,180	1,139
MC	MC4	477	0	0	0	1,913	2,792	2,648	2,516	2,394	2,281	2,172	2,064	1,955	1,846	1,737	1,628	1,519	1,440	1,389
TC	TC1	383	0	0	0	770	1,008	958	912	871	833	797	760	724	688	652	616	579	555	542
TC	TC2	549	0	0	0	1,104	1,445	1,373	1,307	1,248	1,194	1,142	1,090	1,038	986	934	882	830	795	777
TY	TY3	71	0	0	0	586	837	792	751	713	679	645	611	577	544	510	476	452	438	423
		BRWATER	0	0	0	3,747	5,032	4,763	4,521	4,302	4,104	3,908	3,713	3,518	3,323	3,128	2,933	2,800	2,729	2,659
		CRWATER	0	0	0	3,560	5,746	5,427	5,134	4,863	4,611	4,362	4,113	3,865	3,616	3,367	3,118	2,929	2,798	2,668
		MCWATER	0	0	0	5,902	8,617	8,173	7,765	7,389	7,040	6,704	6,368	6,032	5,696	5,361	5,025	4,689	4,443	4,287
		TCWATER	0	0	0	1,874	2,453	2,331	2,220	2,119	2,026	1,938	1,850	1,762	1,674	1,586	1,498	1,410	1,350	1,319
		GHWATER	0	0	0	5,902	7,892	7,495	7,135	6,806	6,505	6,217	5,928	5,640	5,352	5,063	4,775	4,487	4,288	4,180
		GRWATER	0	0	0	1,405	2,006	1,898	1,799	1,709	1,627	1,546	1,465	1,384	1,303	1,222	1,141	1,083	1,049	1,015

Station	Unit	Capacity	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
BR	BR1	101	382	372	361	351	340	330	320	309	299	288	278	267	257	247	236	226	215	205
BR	BR2	167	632	615	597	580	563	546	528	511	494	477	459	442	425	408	390	373	356	339
BR	BR3	416	1,574	1,531	1,488	1,445	1,402	1,359	1,316	1,273	1,230	1,187	1,144	1,101	1,058	1,016	973	930	887	844
CR	CR4	155	699	663	627	591	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR5	168	757	718	679	640	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR6	240	1,082	1,026	970	915	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GH	GH1	475	1,008	982	955	928	901	875	848	821	794	767	741	714	687	660	634	607	580	553
GH	GH2	484	1,028	1,000	973	946	918	891	864	837	809	782	755	727	700	673	646	618	591	564
GH	GH3	480	1,019	992	965	938	911	884	857	830	803	776	748	721	694	667	640	613	586	559
GH	GH4	479	1,017	990	963	936	909	882	855	828	801	774	747	720	693	666	639	612	585	558
GR	GR3	68	409	395	380	366	352	337	323	309	294	280	266	251	237	0	0	0	0	0
GR	GR4	95	571	551	531	511	491	471	451	431	411	391	371	351	331	0	0	0	0	0
MC	MC1	303	850	818	786	754	722	690	658	626	594	562	530	0	0	0	0	0	0	0
MC	MC2	301	845	813	781	749	717	686	654	622	590	558	526	0	0	0	0	0	0	0
MC	MC3	391	1,097	1,056	1,015	973	932	891	849	808	766	725	684	0	0	0	0	0	0	0
MC	MC4	477	1,339	1,288	1,238	1,187	1,137	1,086	1,036	986	935	885	834	0	0	0	0	0	0	0
TC	TC1	383	529	517	504	491	479	466	453	441	428	415	403	390	377	364	352	339	326	314
TC	TC2	549	759	741	723	704	686	668	650	632	613	595	577	559	541	522	504	486	468	450
TY	TY3	71	409	395	380	366	352	337	323	309	294	280	266	251	237	0	0	0	0	0
		BRWATER	2,588	2,517	2,447	2,376	2,305	2,235	2,164	2,094	2,023	1,952	1,882	1,811	1,740	1,670	1,599	1,529	1,458	1,387
		CRWATER	2,537	2,407	2,277	2,146	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		MCWATER	4,131	3,976	3,820	3,664	3,508	3,353	3,197	3,041	2,886	2,730	2,574	0	0	0	0	0	0	0
		TCWATER	1,288	1,258	1,227	1,196	1,165	1,134	1,103	1,072	1,041	1,010	979	949	918	887	856	825	794	763
		GHWATER	4,072	3,964	3,856	3,748	3,640	3,531	3,423	3,315	3,207	3,099	2,991	2,883	2,774	2,666	2,558	2,450	2,342	2,234
		GRWATER	980	946	912	877	843	809	774	740	706	671	637	603	568	0	0	0	0	0

Station	Unit	Capacity	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059
BR	BR1	101	194	184	174	0	0	0	0	0	0	0	0	0	0
BR	BR2	167	321	304	287	0	0	0	0	0	0	0	0	0	0
BR	BR3	416	801	758	715	0	0	0	0	0	0	0	0	0	0
CR	CR4	155	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR5	168	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR6	240	0	0	0	0	0	0	0	0	0	0	0	0	0
GH	GH1	475	526	500	473	446	0	0	0	0	0	0	0	0	0
GH	GH2	484	536	509	482	454	0	0	0	0	0	0	0	0	0
GH	GH3	480	532	505	478	451	0	0	0	0	0	0	0	0	0
GH	GH4	479	531	504	477	450	0	0	0	0	0	0	0	0	0
GR	GR3	68	0	0	0	0	0	0	0	0	0	0	0	0	0
GR	GR4	95	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC1	303	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC2	301	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC3	391	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC4	477	0	0	0	0	0	0	0	0	0	0	0	0	0
TC	TC1	383	301	288	276	263	250	237	225	212	0	0	0	0	0
TC	TC2	549	431	413	395	377	359	340	322	304	0	0	0	0	0
TY	TY3	71	0	0	0	0	0	0	0	0	0	0	0	0	0

		2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059
	BRWATER	1,317	1,246	1,175	0	0	0	0	0	0	0	0	0	0
	CRWATER	0	0	0	0	0	0	0	0	0	0	0	0	0
	MCWATER	0	0	0	0	0	0	0	0	0	0	0	0	0
	TCWATER	732	701	670	640	609	578	547	516	0	0	0	0	0
	GHWATER	2,125	2,017	1,909	1,801	0	0	0	0	0	0	0	0	0
	GRWATER	0	0	0	0	0	0	0	0	0	0	0	0	0

Retire:

	No Retirements	1 TY	2 TY GR3	3 TY GR3 BR3	4 TY GR3 CR4	5 TY GR3 CR4 CR6	6 TY GR3 CR4 CR6 BR1-2	7 TY GR3 CR	8 TY GR3 CR GH3	9 TY GR3 CR GH1	10 TY GR CR	11 TY GR CR MC4	12 TY GR CR TC1	13 TY GR CR GH4	14 TY GR CR MC3	15 TY GR CR GH2	16 TY GR CR MC1-2	17 TY GR CR BR1-2 MC1-2
2010																		
2011																		
2012																		
2013																		
2014																		
2015																		
2016		3x1C(1)	2x1C(1)	3x1C(1)	2x1C(1)	3x1C(1)	3x1C(1)	3x1C(1)	3x1C(1) 2x1C(1)	3x1C(1) 2x1C(1)	3x1C(1)	3x1C(2)	3x1C(1) 2x1C(1)	3x1C(2)	3x1C(1) 2x1C(1)	3x1C(2)	3x1C(2)	3x1C(2)
2017	3x1C(1)																	
2018							3x1C(1)				3x1C(1)							
2019					2x1C(1)			3x1C(1)		3x1C(1)								3x1C(1)
2020			2x1C(1)	3x1C(1)		3x1C(1)			3x1C(1)				3x1C(1)		3x1C(1)		3x1C(1)	
2021												2x1C(1)		2x1C(1)		2x1C(1)		
2022																		
2023																		
2024	3x1C(1)	3x1C(1)			3x1C(1)		3x1C(1)				3x1C(1)							
2025			3x1C(1)					3x1C(1)				2x1C(1)		2x1C(1)		2x1C(1)		3x1C(1)
2026				2x1C(1)		2x1C(1)			2x1C(1)	3x1C(1)			3x1C(1)		3x1C(1)		2x1C(1)	
2027																		
2028																		
2029																		
2030	3x1C(1)	3x1C(1)		3x1C(1)	3x1C(1)	3x1C(1)			3x1C(1)			3x1C(1)		3x1C(1)		3x1C(1)		
2031			3x1C(1)				3x1C(1)	3x1C(1)			3x1C(1)						3x1C(1)	3x1C(1)
2032																		
2033										3x1C(1)			3x1C(1)		3x1C(1)			
2034																		
2035																		
2036	SCCT(1)	SCCT(1)										SCCT(1)		SCCT(1)		SCCT(1)		
2037		3x1C(1)		3x1C(1)	3x1C(1)	3x1C(1)	3x1C(1)		3x1C(1)		3x1C(1)	SCCT(1)		SCCT(1)		SCCT(1)	3x1C(1)	
2038	3x1C(1)		SCCT(1)					SCCT(1)										SCCT(1)
2039																		
2040			3x1C(1)					2x1C(1)		3x1C(1)		3x1C(1)	3x1C(1)	3x1C(1)	3x1C(1)	3x1C(1)		3x1C(1)

AESC Gas Prices (Nominal $) and Mid CO2 Prices

Discount Rate: 6.71%

	$M NPVRR	$000 2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
New Unit Capital and Production Cost																								
No Retirements	42,911	913,464	993,415	1,046,587	1,139,294	1,267,451	1,420,359	1,440,881	2,188,684	2,425,003	2,650,041	2,908,289	3,241,791	3,538,797	3,756,640	4,011,431	4,322,796	4,590,631	4,974,505	5,363,584	5,674,185	5,934,088	6,297,548	6,673,483
Retire TY	42,968	913,464	993,415	1,051,778	1,172,334	1,302,885	1,417,356	1,434,190	2,182,180	2,420,223	2,647,132	2,909,325	3,245,564	3,547,551	3,756,595	4,008,572	4,324,285	4,591,703	4,978,527	5,370,111	5,675,339	5,932,654	6,298,217	6,675,652
Retire TY and GR3	43,018	913,464	993,415	1,050,375	1,158,254	1,278,602	1,389,129	1,413,816	2,197,891	2,482,904	2,703,911	2,939,580	3,222,621	3,504,704	3,803,605	4,067,591	4,355,893	4,615,501	4,942,332	5,320,443	5,716,065	5,988,084	6,331,039	6,695,128
Retire TY GR3 and BR3	43,369	913,464	993,415	1,051,778	1,169,483	1,296,124	1,446,986	1,480,546	2,267,134	2,570,939	2,776,702	3,001,026	3,266,386	3,505,451	3,783,989	4,114,576	4,404,041	4,649,750	5,022,030	5,405,593	5,704,677	5,967,917	6,323,441	6,688,648
Retire TY GR3 and CR4	43,154	913,464	993,415	1,050,375	1,157,918	1,278,217	1,409,605	1,461,743	2,246,158	2,495,220	2,703,541	2,953,089	3,277,892	3,569,770	3,794,658	4,053,106	4,354,840	4,621,077	4,997,460	5,381,921	5,690,652	5,956,490	6,315,075	6,682,603
Retire TY GR3 CR4 and CR6	43,431	913,464	993,415	1,051,778	1,170,733	1,302,220	1,458,509	1,488,230	2,273,148	2,577,985	2,781,367	3,004,555	3,270,033	3,507,740	3,783,484	4,115,739	4,432,515	4,652,485	5,022,415	5,406,182	5,707,363	5,973,990	6,330,039	6,692,437
Retire TY GR3 CR4 CR6 and BR1-2	43,718	913,464	993,415	1,051,778	1,167,294	1,302,176	1,543,836	1,621,288	2,344,871	2,556,567	2,772,963	3,016,729	3,335,080	3,628,362	3,847,238	4,106,964	4,397,932	4,658,492	4,981,744	5,363,829	5,757,572	5,999,063	6,343,105	6,702,514
Retire TY GR3 and CR	43,606	913,464	993,415	1,051,778	1,170,499	1,301,958	1,493,450	1,561,858	2,350,008	2,582,509	2,775,944	3,008,480	3,283,152	3,569,347	3,870,150	4,122,694	4,403,107	4,663,074	4,982,761	5,359,143	5,743,952	6,001,954	6,349,234	6,704,891
Retire TY GR3 CR and GH3	44,217	913,464	993,415	1,055,565	1,200,807	1,357,934	1,625,785	1,628,446	2,385,609	2,680,474	2,872,659	3,090,270	3,345,965	3,584,450	3,859,532	4,188,082	4,496,177	4,714,656	5,078,651	5,458,484	5,749,799	6,014,665	6,366,276	6,722,103
Retire TY GR3 CR and GH1	44,188	913,463	993,415	1,049,541	1,190,217	1,341,534	1,623,455	1,674,635	2,424,615	2,657,377	2,858,422	3,080,933	3,339,629	3,581,192	3,871,891	4,215,318	4,514,308	4,725,292	5,027,229	5,347,168	5,657,739	6,017,748	6,454,359	6,773,358
Retire TY GR and CR	43,695	913,464	993,415	1,051,778	1,165,191	1,301,146	1,545,568	1,620,225	2,346,323	2,556,644	2,772,587	3,015,582	3,330,652	3,624,037	3,843,444	4,104,984	4,393,664	4,654,822	4,978,546	5,357,755	5,751,963	5,995,572	6,340,627	6,699,492
Retire TY GR CR and MC4	44,435	913,464	993,415	1,056,968	1,204,690	1,359,022	1,667,456	1,665,874	2,376,787	2,647,850	2,910,594	3,126,978	3,370,914	3,646,349	3,931,193	4,180,547	4,460,800	4,733,067	5,101,443	5,490,522	5,751,469	6,023,512	6,376,593	6,736,454
Retire TY GR CR and TC1	44,370	913,464	993,415	1,055,565	1,195,500	1,353,146	1,639,281	1,638,857	2,408,666	2,706,900	2,894,356	3,108,356	3,366,174	3,606,192	3,902,366	4,240,802	4,543,178	4,746,535	5,052,638	5,368,526	5,682,227	6,036,707	6,477,532	6,792,572
Retire TY GR CR and GH4	44,478	913,464	993,415	1,056,969	1,206,729	1,375,776	1,676,855	1,666,862	2,378,998	2,650,918	2,913,578	3,128,375	3,372,548	3,646,683	3,933,861	4,179,955	4,466,960	4,734,533	5,105,725	5,488,951	5,766,942	6,022,139	6,377,192	6,737,025
Retire TY GR CR and MC3	44,300	913,464	993,415	1,053,290	1,191,920	1,347,529	1,626,872	1,637,218	2,399,340	2,688,579	2,885,363	3,102,484	3,360,439	3,599,298	3,895,596	4,237,735	4,532,053	4,743,106	5,048,672	5,366,126	5,677,512	6,032,968	6,473,175	6,787,418
Retire TY GR CR and GH2	44,504	913,464	993,289	1,055,474	1,203,554	1,361,496	1,673,430	1,671,048	2,386,429	2,648,326	2,921,125	3,133,861	3,381,563	3,653,907	3,943,746	4,185,429	4,468,270	4,741,223	5,113,438	5,498,999	5,768,088	6,027,785	6,381,564	6,739,652
Retire TY GR CR and MC1-2	44,715	913,464	993,415	1,056,968	1,206,729	1,361,976	1,726,733	1,703,132	2,453,511	2,743,601	2,932,860	3,149,938	3,400,998	3,641,827	3,921,963	4,243,892	4,538,210	4,754,794	5,074,078	5,452,112	5,830,080	6,062,810	6,407,356	6,760,354
Retire TY GR CR BR1-2 and MC1-2	45,133	913,464	993,415	1,056,968	1,203,505	1,356,657	1,859,964	1,805,862	2,562,954	2,761,230	2,936,023	3,165,090	3,431,000	3,725,048	4,041,106	4,258,899	4,530,326	4,784,809	5,101,191	5,479,323	5,851,957	6,081,914	6,426,701	6,776,829
Production Cost																								
No Retirements	40,922	913,464	993,415	1,046,587	1,133,974	1,224,875	1,337,871	1,319,204	2,072,270	2,313,485	2,543,087	2,799,277	3,092,492	3,345,927	3,533,098	3,784,388	4,105,507	4,375,363	4,716,875	5,059,606	5,338,666	5,598,538	5,976,196	6,364,722
Retire TY	40,904	913,464	993,415	1,046,587	1,130,796	1,222,409	1,298,646	1,320,615	2,073,381	2,315,878	2,546,949	2,806,718	3,102,449	3,360,770	3,539,048	3,787,430	4,112,803	4,382,147	4,726,514	5,071,656	5,345,249	5,601,323	5,979,902	6,369,889
Retire TY and GR3	40,842	913,464	993,415	1,046,588	1,127,946	1,219,882	1,302,512	1,326,765	2,085,051	2,341,952	2,543,162	2,776,804	3,060,007	3,303,078	3,559,493	3,794,002	4,080,575	4,352,041	4,682,802	5,019,352	5,369,327	5,610,062	5,953,217	6,333,263
Retire TY GR3 and BR3	40,825	913,464	993,415	1,046,587	1,127,945	1,215,648	1,328,277	1,361,242	2,112,486	2,377,763	2,556,394	2,777,940	3,052,407	3,295,368	3,548,376	3,850,719	4,121,691	4,362,401	4,695,820	5,036,554	5,307,494	5,572,736	5,944,401	6,325,286
Retire TY GR3 and CR4	40,812	913,464	993,415	1,046,588	1,127,610	1,219,497	1,318,909	1,346,234	2,103,537	2,333,571	2,540,175	2,790,039	3,076,849	3,327,345	3,523,541	3,780,370	4,093,739	4,363,878	4,699,781	5,039,776	5,318,847	5,585,721	5,959,901	6,342,560
Retire TY GR3 CR4 and CR6	40,888	913,464	993,415	1,046,587	1,129,195	1,221,744	1,339,800	1,368,926	2,118,500	2,384,809	2,561,059	2,781,469	3,056,054	3,297,657	3,547,871	3,851,882	4,150,165	4,365,136	4,696,205	5,037,143	5,310,180	5,578,809	5,950,999	6,329,075
Retire TY GR3 CR4 CR6 and BR1-2	40,923	913,464	993,415	1,046,587	1,125,756	1,216,247	1,381,486	1,423,163	2,121,736	2,331,528	2,557,159	2,803,230	3,085,491	3,339,247	3,531,363	3,791,501	4,096,136	4,369,964	4,698,606	5,040,634	5,390,413	5,602,159	5,947,638	6,323,051
Retire TY GR3 and CR	40,976	913,464	993,415	1,046,587	1,128,961	1,221,482	1,369,151	1,403,552	2,154,546	2,360,969	2,552,050	2,793,687	3,070,500	3,319,608	3,579,802	3,804,823	4,085,564	4,359,445	4,685,119	5,021,996	5,363,215	5,591,688	5,940,622	6,313,688
Retire TY GR3 CR and GH3	41,028	913,464	993,415	1,046,587	1,128,961	1,218,738	1,427,669	1,425,321	2,150,662	2,410,284	2,578,405	2,796,113	3,063,697	3,308,862	3,561,197	3,864,286	4,156,670	4,372,933	4,700,850	5,040,637	5,306,591	5,575,415	5,944,298	6,316,933
Retire TY GR3 CR and GH1	41,015	913,463	993,415	1,040,563	1,118,371	1,202,338	1,419,749	1,432,508	2,148,854	2,358,822	2,560,582	2,795,068	3,065,171	3,311,178	3,566,152	3,870,402	4,143,767	4,357,673	4,676,457	5,012,825	5,331,548	5,650,019	6,039,047	6,326,573
Retire TY GR and CR	40,900	913,464	993,415	1,046,587	1,123,653	1,215,217	1,383,218	1,422,100	2,123,188	2,331,605	2,556,783	2,802,083	3,081,063	3,334,921	3,527,569	3,789,521	4,091,868	4,366,294	4,695,408	5,034,560	5,384,804	5,598,668	5,945,160	6,320,029
Retire TY GR CR and MC4	41,232	913,464	993,415	1,046,587	1,121,615	1,198,070	1,439,919	1,437,422	2,153,654	2,403,665	2,642,631	2,843,451	3,085,253	3,339,144	3,599,812	3,834,394	4,119,976	4,400,049	4,731,908	5,080,539	5,315,757	5,591,218	5,960,841	6,336,781
Retire TY GR CR and TC1	41,235	913,464	993,415	1,046,587	1,123,654	1,213,950	1,441,165	1,435,732	2,173,719	2,436,710	2,600,102	2,814,199	3,083,906	3,328,808	3,589,656	3,889,156	4,166,010	4,372,391	4,695,445	5,027,864	5,349,820	5,662,865	6,056,209	6,339,879
Retire TY GR CR and GH4	41,275	913,464	993,415	1,046,588	1,123,654	1,214,824	1,449,318	1,438,410	2,155,865	2,406,733	2,645,615	2,844,848	3,086,887	3,339,478	3,602,480	3,833,802	4,126,136	4,401,515	4,736,190	5,078,968	5,331,230	5,589,845	5,961,440	6,337,352
Retire TY GR CR and MC3	41,165	913,464	993,415	1,044,312	1,120,074	1,208,333	1,428,756	1,434,093	2,164,393	2,418,389	2,591,109	2,808,327	3,078,171	3,321,914	3,582,886	3,886,089	4,154,885	4,368,962	4,691,479	5,025,464	5,345,105	5,659,126	6,051,852	6,334,725
Retire TY GR CR and GH2	41,301	913,464	993,289	1,045,093	1,120,479	1,200,544	1,445,893	1,442,596	2,163,296	2,404,141	2,653,162	2,850,334	3,095,902	3,346,702	3,612,365	3,839,276	4,127,446	4,408,205	4,743,903	5,089,016	5,332,376	5,595,491	5,965,812	6,339,979
Retire TY GR CR and MC1-2	41,318	913,464	993,415	1,046,587	1,123,654	1,201,024	1,499,196	1,468,950	2,188,813	2,444,876	2,611,209	2,829,449	3,093,429	3,341,969	3,600,388	3,897,888	4,177,526	4,400,259	4,728,337	5,069,734	5,407,036	5,611,938	5,958,589	6,329,448
Retire TY GR CR BR1-2 and MC1-2	41,598	913,464	993,415	1,046,587	1,120,430	1,195,705	1,626,838	1,532,678	2,257,442	2,434,141	2,610,786	2,852,893	3,124,758	3,385,533	3,664,796	3,858,881	4,134,449	4,406,661	4,732,844	5,075,284	5,408,142	5,611,252	5,959,242	6,328,329
Production Cost Delta																								
No Retirements																								
Retire TY	-18	0	0	0	-3,177	-2,466	-39,225	1,412	1,111	2,393	3,862	7,441	9,957	14,844	5,950	3,042	7,295	6,784	9,639	12,050	6,583	2,785	3,706	5,167
Retire TY and GR3	-63	0	0	0	-2,851	-2,527	3,865	6,150	11,669	26,074	-3,787	-29,915	-42,442	-57,692	20,445	6,572	-32,228	-30,106	-43,712	-52,305	24,078	8,739	-26,684	-36,626
Retire TY GR3 and BR3	-16	0	0	0	0	-4,234	25,765	34,477	27,435	35,811	13,232	1,136	-7,600	-7,710	-11,117	56,718	41,116	10,360	13,018	17,203	-61,833	-37,326	-8,816	-7,977
Retire TY GR3 and CR4	-30	0	0	0	-336	-385	16,397	19,469	18,487	-8,380	-2,987	13,235	16,842	24,266	-35,952	-13,632	13,165	11,838	16,978	20,424	-50,480	-24,341	6,684	9,298
Retire TY GR3 CR4 and CR6	76	0	0	0	1,586	2,247	20,890	22,692	14,962	51,238	20,884	-8,570	-20,795	-29,688	24,330	71,512	56,425	1,257	-3,576	-2,632	-8,667	-6,913	-8,902	-13,486
Retire TY GR3 CR4 CR6 and BR1-2	35	0	0	0	-3,439	-5,497	41,687	54,237	3,236	-53,281	-3,900	21,761	29,437	41,589	-16,508	-60,381	-54,028	4,828	2,401	3,490	80,233	23,350	-3,361	-6,024
Retire TY GR3 and CR	87	0	0	0	-234	-262	29,351	34,626	36,046	-23,840	-9,009	12,218	14,446	21,951	31,931	-47,059	-64,601	-5,691	-11,086	-15,147	53,035	12,879	-10,377	-15,386
Retire TY GR3 CR and GH3	52	0	0	0	0	-2,744	58,518	21,769	-3,883	49,315	26,355	2,426	-6,802	-10,746	-18,605	59,463	71,106	13,488	15,731	18,641	-56,624	-16,273	3,677	3,245
Retire TY GR3 CR and GH1	39	0	0	-6,024	-10,590	-19,144	50,599	28,956	-5,691	-2,146	8,532	1,382	-5,329	-8,430	-13,650	65,579	58,203	-1,772	-8,662	-9,172	-31,667	58,331	98,425	12,884
Retire TY GR and CR	-75	0	0	0	-5,308	-6,265	14,067	18,548	-31,358	-29,364	4,733	8,397	10,563	15,314	-52,232	-15,302	6,304	6,849	10,289	12,564	21,589	6,980	4,539	6,341
Retire TY GR CR and MC4	332	0	0	-1	-2,039	-17,147	56,701	15,321	30,466	72,060	85,848	41,368	4,190	4,223	72,242	44,873	28,108	33,755	36,500	45,980	-69,048	-7,450	15,680	16,752
Retire TY GR CR and TC1	335	0	0	0	1	-1,267	57,947	13,631	50,532	105,105	43,319	12,116	2,843	-6,114	62,087	99,635	74,142	6,098	37	-6,696	-34,985	64,197	111,049	19,850
Retire TY GR CR and GH4	375	0	0	0	0	-393	66,100	16,309	32,677	75,128	88,832	42,765	5,824	4,557	74,911	44,280	34,268	35,221	40,782	44,409	-53,575	-8,824	16,279	17,323
Retire TY GR CR and MC3	265	0	0	-2,275	-3,579	-6,884	45,538	11,992	41,206	86,784	34,326	6,244	-2,892	-13,008	55,317	96,568	63,017	2,669	-3,929	-9,096	-39,699	60,458	106,692	14,696
Retire TY GR CR and GH2	401	0	-126	-1,495	-3,175	-14,673	62,675	20,495	40,108	72,536	96,379	48,251	14,839	11,781	84,795	49,754	35,578	41,911	48,495	54,457	-52,429	-3,178	20,652	19,950
Retire TY GR CR and MC1-2	418	0	0	-1	0	-14,193	115,978	46,850	65,626	113,271	54,425	27,365	12,366	7,047	72,819	108,367	85,658	33,966	32,929	35,174	22,232	13,270	13,429	9,419
Retire TY GR CR BR1-2 and MC1-2	698	0	0	-1	-3,224	-19,512	243,620	110,578	134,254	102,536	54,002	50,810	43,695	50,612	137,227	69,359	42,581	40,367	37,436	40,725	23,338	12,584	14,082	8,300
New Unit Capital																								
No Retirements	1,989	0	0	0	5,320	42,576	82,488	121,677	116,414	111,519	106,954	109,012	149,299	192,870	223,542	227,043	217,289	215,268	257,630	303,978	335,519	335,550	321,352	308,761
Retire TY	2,063	0	0	5,191	41,538	80,476	118,710	113,575	108,799	104,346	100,183	102,607	143,115	186,781	217,547	221,142	211,483	209,556	252,013	298,455	330,090	331,331	318,315	305,763
Retire TY and GR3	2,176	0	0	3,787	30,308	58,720	86,617	87,051	112,840	140,952	160,749	162,776	162,614	201,626	244,112	273,589	275,318	263,460	259,530	301,092	346,738	378,022	377,822	361,866
Retire TY GR3 and BR3	2,543	0	0	5,191	41,538	80,476	118,710	119,304	154,648	193,176	220,308	223,086	213,979	210,083	235,613	263,857	282,351	287,349	326,210	369,039	397,183	395,181	379,040	363,362
Retire TY GR3 and CR4	2,342	0	0	3,787	30,308	58,720	90,696	115,509	142,621	161,649	163,366	163,050	201,043	242,425	271,117	272,736	261,101	257,199	297,679	342,146	371,805	370,769	355,174	340,043
Retire TY GR3 CR4 and CR6	2,543	0	0	5,191	41,538	80,476	118,710	119,304	154,648	193,176	220,308	223,086	213,979	210,083	235,613	263,857	282,351	287,349	326,210	369,039	397,183	395,181	379,040	363,362
Retire TY GR3 CR4 CR6 and BR1-2	2,795	0	0	5,191	41,538	85,929	162,350	198,125	223,135	225,039	215,804	213,499	249,589	289,116	315,875	315,463	301,796	288,528	283,138	323,195	367,159	396,904	395,467	379,463
Retire TY GR3 and CR	2,631	0	0	5,191	41,538	80,476	124,299	158,306	195,463	221,541	223,894	214,793	212,652	249,739	290,348	317,871	317,543	303,629	297,642	337,147	380,737	410,266	408,612	391,203
Retire TY GR3 CR and GH3	3,189	0	0	8,978	71,846	139,196	198,116	203,126	234,947	270,191	294,254	294,157	282,268	275,588	298,335	323,796	339,507	341,723	377,801	417,847	443,208	439,250	421,978	405,170
Retire TY GR3 CR and GH1	3,173	0	0	8,978	71,846	139,196	203,706	242,128	275,761	298,555	297,840	285,865	274,458	270,014	305,739	344,916	370,541	367,619	350,772	334,344	326,191	367,729	415,312	446,785
Retire TY GR and CR	2,795	0	0	5,191	41,538	85,929	162,350	198,125	223,135	225,039	215,804	213,499	249,589	289,116	315,875	315,463	301,796	288,529	283,138	323,195	367,159	396,904	395,467	379,463
Retire TY GR CR and MC4	3,202	0	0	10,381	83,075	160,952	227,537	228,452	223,133	244,185	267,963	283,527	285,661	307,205	331,381	346,153	340,824	333,018	369,535	409,983	435,713	432,294	415,752	399,673
Retire TY GR CR and TC1	3,135	0	0	8,978	71,846	139,196	198,116	203,126	234,947	270,191	294,254	294,157	282,268	277,385	312,710	351,646	377,168	374,144	357,193	340,662	332,408	373,842	421,323	452,693
Retire TY GR CR and GH4	3,202	0	0	10,381	83,075	160,952	227,537	228,452	223,133	244,185	267,963	283,527	285,661	307,205	331,381	346,153	340,824	333,018	369,535	409,983	435,713	432,295	415,752	399,673
Retire TY GR CR and MC3	3,135	0	0	8,978	71,846	139,196	198,116	203,125	234,947	270,191	294,254	294,157	282,268	277,385	312,710	351,646	377,168	374,144	357,193	340,662	332,407	373,842	421,323	452,693

AESC Gas Prices (Nominal $) and Mid CO2 Prices

Discount Rate: 6.71%

	$M NPVRR	$000 2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Retire TY GR CR and GH2	3,202	0	0	10,381	83,075	160,952	227,537	228,452	223,133	244,185	267,963	283,527	285,661	307,205	331,381	346,153	340,824	333,018	369,535	409,983	435,713	432,295	415,752	399,673
Retire TY GR CR and MC1-2	3,397	0	0	10,381	83,075	160,952	227,537	234,182	264,698	298,725	321,651	320,490	307,569	299,859	321,575	346,004	360,684	354,535	345,741	382,379	423,044	450,872	448,767	430,906
Retire TY GR CR BR1-2 and MC1-2	3,535	0	0	10,381	83,075	160,952	233,126	273,184	305,512	327,089	325,237	312,197	306,242	339,515	376,310	400,019	395,877	378,149	368,347	404,039	443,815	470,662	467,459	448,500
New Unit Capital Delta																								
No Retirements																								
Retire TY	74	0	0	5,191	36,217	37,900	36,222	-8,103	-7,615	-7,173	-6,771	-6,405	-6,184	-6,090	-5,995	-5,901	-5,806	-5,712	-5,617	-5,523	-5,429	-4,219	-3,037	-2,998
Retire TY and GR3	113	0	0	-1,403	-11,229	-21,756	-32,092	-26,524	4,042	36,607	60,566	60,170	19,499	14,845	26,565	52,447	63,836	53,904	7,517	2,637	16,648	46,691	59,506	56,102
Retire TY GR3 and BR3	367	0	0	1,403	11,229	21,756	32,092	32,253	41,808	52,224	59,559	60,310	51,365	8,457	-8,499	-9,733	7,032	23,889	66,680	67,947	50,445	17,159	1,218	1,497
Retire TY GR3 and CR4	166	0	0	0	0	0	4,079	28,458	29,780	20,696	2,617	274	38,429	40,800	27,005	-853	-14,218	-6,262	38,150	41,054	25,067	-7,253	-22,648	-21,823
Retire TY GR3 CR4 and CR6	201	0	0	1,403	11,229	21,756	28,014	3,795	12,028	31,528	56,942	60,036	12,936	-32,343	-35,504	-8,879	21,250	30,151	28,531	26,893	25,378	24,413	23,866	23,320
Retire TY GR3 CR4 CR6 and BR1-2	252	0	0	0	0	5,453	43,641	78,821	68,487	31,863	-4,504	-9,587	35,610	79,033	80,262	51,606	19,445	1,179	-43,072	-45,843	-30,024	1,723	16,427	16,101
Retire TY GR3 and CR	88	0	0	0	0	0	5,590	39,002	40,814	28,364	3,586	-8,293	-1,327	39,656	54,735	54,014	35,193	16,280	-28,568	-31,892	-16,446	15,085	29,572	27,840
Retire TY GR3 CR and GH3	558	0	0	3,787	30,308	58,720	73,817	44,819	39,484	48,650	70,360	79,364	69,615	25,849	7,987	5,925	21,964	38,094	80,159	80,700	62,471	28,984	13,366	13,967
Retire TY GR3 CR and GH1	542	0	0	3,787	30,308	58,720	79,407	83,821	80,298	77,014	73,946	71,071	61,806	20,275	15,391	27,046	52,998	63,990	53,130	-2,804	-54,546	-42,537	6,700	55,583
Retire TY GR and CR	164	0	0	0	0	5,453	38,051	39,819	27,673	3,499	-8,090	-1,295	36,937	39,377	25,526	-2,408	-15,747	-15,101	-14,504	-13,952	-13,578	-13,362	-13,146	-11,740
Retire TY GR CR and MC4	407	0	0	5,191	41,538	75,023	65,187	30,328	-2	19,146	52,159	70,028	36,072	18,090	15,507	30,691	39,028	44,490	86,397	86,787	68,554	35,390	20,286	20,210
Retire TY GR CR and TC1	340	0	0	3,787	30,308	53,267	35,766	5,001	11,811	45,152	78,450	80,658	32,679	-11,731	-3,165	36,183	75,372	85,615	74,055	17,467	-34,752	-23,062	25,856	73,230
Retire TY GR CR and GH4	407	0	0	5,191	41,538	75,023	65,187	30,328	-2	19,146	52,159	70,028	36,072	18,090	15,507	30,691	39,028	44,490	86,397	86,787	68,554	35,391	20,286	20,210
Retire TY GR CR and MC3	340	0	0	3,787	30,308	53,267	35,766	5,001	11,811	45,152	78,450	80,658	32,679	-11,731	-3,165	36,183	75,372	85,615	74,055	17,467	-34,752	-23,062	25,856	73,230
Retire TY GR CR and GH2	407	0	0	5,191	41,538	75,023	65,187	30,328	-2	19,146	52,159	70,028	36,072	18,090	15,507	30,691	39,028	44,490	86,397	86,787	68,554	35,391	20,286	20,210
Retire TY GR CR and MC1-2	602	0	0	5,191	41,538	75,023	65,187	36,057	41,563	73,686	105,848	106,991	57,980	10,743	5,700	30,542	58,888	66,006	62,603	59,183	55,885	53,968	53,300	51,443
Retire TY GR CR BR1-2 and MC1-2	740	0	0	5,191	41,538	75,023	70,776	75,059	82,377	102,050	109,434	98,698	56,653	50,399	60,435	84,556	94,081	89,620	85,209	80,843	76,656	73,758	71,992	69,037
New Controls Capital																								
No Retirements	3,614	5,931	66,348	200,982	360,111	446,379	457,561	434,784	413,355	392,884	372,657	352,470	332,282	312,094	291,915	274,128	260,867	250,426	240,933	231,711	204,492	180,312	173,301	146,775
Retire TY	3,568	5,931	65,025	196,834	354,404	440,980	452,440	429,914	408,714	388,467	368,466	348,504	328,541	308,579	288,624	270,993	257,818	247,462	238,055	228,918	201,786	177,691	170,765	144,325
Retire TY and GR3	3,522	5,931	63,702	192,687	348,698	435,581	447,318	425,044	404,073	384,051	364,275	344,538	324,801	305,063	285,334	267,858	254,769	244,499	235,177	226,126	199,079	175,070	168,230	141,875
Retire TY GR3 and BR3	3,412	5,931	63,498	189,833	341,102	422,143	433,198	411,641	391,316	371,880	352,680	333,519	314,358	295,197	276,044	259,143	246,444	236,376	227,257	218,409	191,565	167,758	161,121	134,969
Retire TY GR3 and CR4	3,217	4,867	56,370	169,126	304,277	393,642	407,665	387,508	368,506	350,431	332,602	314,811	297,020	279,229	261,447	245,466	233,421	224,196	215,918	207,912	181,909	175,070	168,230	141,875
Retire TY GR3 CR4 and CR6	2,805	2,833	45,919	136,980	246,527	339,098	356,062	338,616	322,129	306,536	291,188	275,880	260,571	245,262	229,961	215,853	205,070	197,107	190,092	183,348	156,607	153,030	147,452	141,875
Retire TY GR3 CR4 CR6 and BR1-2	2,572	2,344	39,413	121,375	219,952	311,354	329,736	313,572	298,249	283,801	269,599	255,435	241,272	227,108	212,953	199,628	189,267	181,725	175,132	168,810	144,491	139,335	134,179	129,024
Retire TY GR3 and CR	2,484	1,786	38,065	111,787	198,784	294,032	313,468	298,316	283,969	270,491	257,258	244,064	230,871	217,677	204,491	192,024	182,408	175,611	169,763	164,185	158,607	153,030	147,452	141,875
Retire TY GR3 CR and GH3	2,301	1,671	37,500	106,638	188,044	273,909	289,887	275,771	262,450	249,916	237,588	225,298	213,009	200,719	188,437	176,850	168,092	161,891	156,372	151,118	145,864	140,610	135,356	130,102
Retire TY GR3 CR and GH1	2,312	1,600	33,171	100,624	179,084	272,757	293,301	279,160	265,739	253,174	240,854	228,573	216,291	204,010	191,737	179,921	170,696	164,290	158,833	153,646	148,460	143,273	138,086	132,900
Retire TY GR and CR	2,417	1,786	36,180	105,877	190,031	285,759	305,631	290,878	276,898	263,781	250,910	238,078	225,246	212,414	199,589	187,384	177,930	171,296	165,611	160,196	154,781	149,366	143,951	138,537
Retire TY GR CR and MC4	2,000	924	23,470	79,204	152,023	234,493	256,199	243,819	232,033	221,025	210,258	199,530	188,801	178,073	167,344	157,227	149,316	143,650	138,903	134,426	129,949	125,472	120,995	116,518
Retire TY GR CR and TC1	2,300	1,786	36,180	103,677	184,286	273,792	289,798	275,655	262,395	249,943	237,710	225,514	213,319	201,123	188,935	177,366	168,549	162,378	156,974	151,833	146,692	141,551	136,410	131,270
Retire TY GR CR and GH4	2,243	1,664	35,653	102,060	180,415	268,840	282,440	268,854	255,934	243,789	231,814	219,842	207,870	195,898	183,934	172,589	163,972	158,150	153,030	147,934	142,838	137,741	132,645	127,549
Retire TY GR CR and MC3	2,187	1,786	34,801	96,487	172,591	260,220	276,113	262,568	249,930	238,075	226,434	214,829	203,225	191,620	180,024	169,022	160,649	154,790	149,666	144,802	139,938	135,073	130,209	125,345
Retire TY GR CR and GH2	2,256	1,775	32,669	97,613	174,080	266,570	287,212	273,287	260,063	247,668	235,517	223,405	211,293	199,182	187,078	175,581	166,604	160,218	154,770	149,593	144,416	139,239	134,062	126,884
Retire TY GR CR and MC1-2	1,750	1,786	28,974	80,967	145,665	202,060	215,466	205,484	195,876	186,786	177,886	169,025	160,164	151,302	142,449	134,214	127,668	122,876	119,033	115,461	111,889	108,316	104,744	101,172
Retire TY GR CR BR1-2 and MC1-2	1,518	1,297	22,468	65,362	119,090	174,317	189,141	180,440	171,996	164,052	156,297	148,581	140,865	133,149	125,440	117,989	111,864	107,495	104,073	100,923	97,772	94,622	91,471	88,321
New Controls Capital Delta																								
No Retirements																								
Retire TY	-46	0	-1,323	-4,148	-5,707	-5,399	-5,121	-4,870	-4,641	-4,416	-4,191	-3,966	-3,741	-3,516	-3,290	-3,135	-3,049	-2,964	-2,878	-2,792	-2,707	-2,621	-2,536	-2,450
Retire TY and GR3	-46	0	-1,323	-4,148	-5,707	-5,399	-5,121	-4,870	-4,641	-4,416	-4,191	-3,966	-3,741	-3,516	-3,290	-3,135	-3,049	-2,964	-2,878	-2,792	-2,707	-2,621	-2,536	-2,450
Retire TY GR3 and BR3	-110	0	-204	-2,854	-7,595	-13,437	-14,120	-13,404	-12,757	-12,171	-11,595	-11,019	-10,443	-9,867	-9,290	-8,714	-8,325	-8,122	-7,920	-7,717	-7,514	-7,311	-7,109	-6,906
Retire TY GR3 and CR4	-304	-1,064	-7,332	-23,561	-44,421	-41,939	-39,653	-37,537	-35,567	-33,620	-31,674	-29,727	-27,780	-25,834	-23,887	-22,392	-21,347	-20,303	-19,258	-18,214	-17,169	0	0	0
Retire TY GR3 CR4 and CR6	-412	-2,034	-10,451	-32,146	-57,750	-54,544	-51,603	-48,892	-46,378	-43,896	-41,413	-38,931	-36,449	-33,967	-31,485	-29,613	-28,351	-27,089	-25,826	-24,564	-23,302	-22,040	-20,777	0
Retire TY GR3 CR4 CR6 and BR1-2	-232	-489	-6,506	-15,605	-26,575	-27,743	-26,326	-25,044	-23,880	-22,735	-21,590	-20,444	-19,299	-18,154	-17,009	-16,225	-15,803	-15,382	-14,960	-14,538	-14,116	-13,695	-13,273	-12,851
Retire TY GR3 and CR	-320	-1,047	-7,854	-25,193	-47,744	-45,066	-42,594	-40,300	-38,160	-36,045	-33,930	-31,815	-29,700	-27,585	-25,470	-23,829	-22,663	-21,496	-20,329	-19,163	0	0	0	0
Retire TY GR3 CR and GH3	-184	-115	-565	-5,149	-10,740	-20,123	-23,581	-22,544	-21,518	-20,575	-19,670	-18,766	-17,862	-16,958	-16,054	-15,173	-14,316	-13,720	-13,391	-13,067	-12,743	-12,420	-12,096	-11,772
Retire TY GR3 CR and GH1	-172	-186	-4,894	-11,163	-19,700	-21,275	-20,167	-19,156	-18,230	-17,317	-16,404	-15,492	-14,579	-13,667	-12,754	-12,103	-11,712	-11,321	-10,930	-10,539	-10,148	-9,757	-9,366	-8,975
Retire TY GR and CR	-68	0	-1,885	-5,910	-8,752	-8,273	-7,837	-7,438	-7,071	-6,709	-6,348	-5,986	-5,625	-5,264	-4,902	-4,640	-4,477	-4,315	-4,152	-3,989	-3,826	-3,664	-3,501	-3,338
Retire TY GR CR and MC4	-417	-862	-12,710	-26,673	-38,008	-51,266	-49,432	-47,059	-44,864	-42,756	-40,652	-38,548	-36,445	-34,341	-32,245	-30,157	-28,614	-27,646	-26,708	-25,770	-24,832	-23,894	-22,956	-22,018
Retire TY GR CR and TC1	-117	0	0	-2,200	-5,745	-11,967	-15,834	-15,223	-14,502	-13,838	-13,200	-12,564	-11,927	-11,291	-10,654	-10,018	-9,381	-8,918	-8,637	-8,363	-8,089	-7,815	-7,541	-7,267
Retire TY GR CR and GH4	-174	-122	-527	-3,817	-9,616	-16,919	-23,191	-22,024	-20,963	-19,992	-19,096	-18,236	-17,376	-16,516	-15,655	-14,795	-13,959	-13,146	-12,581	-12,262	-11,944	-11,625	-11,307	-10,988
Retire TY GR CR and MC3	-230	0	-1,379	-9,390	-17,441	-25,539	-29,519	-28,309	-26,968	-25,706	-24,477	-23,249	-22,021	-20,793	-19,566	-18,361	-17,281	-16,506	-15,945	-15,394	-14,844	-14,293	-13,742	-13,192
Retire TY GR CR and GH2	-160	-11	-3,511	-8,264	-15,951	-19,189	-18,419	-17,591	-16,835	-16,113	-15,393	-14,673	-13,952	-13,232	-12,512	-11,803	-11,326	-11,079	-10,841	-10,603	-10,365	-10,128	-9,890	-9,652
Retire TY GR CR and MC1-2	-666	0	-7,206	-24,910	-44,366	-83,699	-90,165	-85,393	-81,022	-76,995	-73,024	-69,053	-65,082	-61,111	-57,140	-53,169	-50,263	-48,420	-46,578	-44,735	-42,892	-41,050	-39,207	-37,365
Retire TY GR CR BR1-2 and MC1-2	-899	-489	-13,712	-40,515	-70,941	-111,442	-116,490	-110,438	-104,902	-99,730	-94,613	-89,497	-84,381	-79,265	-74,149	-69,394	-66,066	-63,802	-61,537	-59,273	-57,009	-54,745	-52,480	-50,216
MTP Capital																								
No Retirements	883	4,778	11,562	18,173	24,637	30,976	37,210	43,345	49,380	55,311	61,136	66,853	72,459	77,965	83,446	88,957	94,500	100,076	105,685	111,329	116,849	122,412	128,018	133,669
Retire TY	866	4,778	11,562	18,173	24,637	30,976	36,456	42,467	48,381	54,193	59,902	65,506	71,000	76,398	81,768	87,170	92,602	98,068	103,567	109,099	114,508	119,959	125,453	130,991
Retire TY and GR3	860	4,778	11,562	18,173	24,637	30,976	36,146	42,107	47,971	53,735	59,396	64,953	70,402	75,754	81,080	86,435	91,823	97,242	102,695	108,182	113,544	118,948	124,395	129,886
Retire TY GR3 and BR3	813	4,778	11,562	18,173	24,637	30,976	34,004	39,614	45,133	50,558	55,888	61,119	66,249	71,285	76,291	81,325	86,388	91,480	96,603	101,756	106,783	111,848	116,953	122,099
Retire TY GR3 and CR4	846	4,778	11,562	18,173	24,637	30,976	35,468	41,317	47,072	52,729	58,287	63,743	69,094	74,350	79,579	84,839	90,132	95,457	100,815	106,208	111,521	116,875	122,270	127,708
Retire TY GR3 CR4 and CR6	824	4,778	11,562	18,173	24,637	30,976	34,416	40,094	45,680	51,172	56,569	61,869	67,068	72,175	77,255	82,368	87,513	92,692	97,904	103,152	108,389	113,664	118,979	124,335
Retire TY GR3 CR4 CR6 and BR1-2	794	4,778	11,562	18,173	24,637	30,976	33,038	38,488	43,851	49,126	54,309	59,399	64,393	69,295	74,170	79,076	84,012	88,979	93,980	99,013	104,033	109,090	114,185	119,318
Retire TY GR3 and CR	809	4,778	11,562	18,173	24,637	30,976	33,683	39,238	44,705	50,082	55,367	60,557	65,650	70,652	75,629	80,638	85,680	90,756	95,867	101,013	106,196	111,417	116,676	121,974
Retire TY GR3 CR and GH3	724	4,778	11,562	18,173	24,637	30,976	29,800	34,714	39,550	44,305	48,978	53,566	58,067	62,487	66,885	71,310	75,763	80,245	84,756	89,297	93,869	98,473	103,109	107,778
Retire TY GR3 CR and GH1	725	4,778	11,562	18,173	24,637	30,976	29,840	34,761	39,604	44,366	49,044	53,639	58,146	62,572	66,976	71,407	75,867	80,354	84,872	89,419	93,996	98,608	103,250	107,926
Retire TY GR and CR	800	4,778	11,562	18,173	24,637	30,976	33,251	38,735	44,133	49,442	54,660	59,785	64,814	69,754	74,667	79,612	84,591	89,603	94,649	99,731	104,849	110,005	115,198	120,431
Retire TY GR CR and MC4	715	4,778	11,562	18,173	24,637	30,976	29,320	34,154	38,913	43,595	48,199	52,721	57,160	61,522	65,864	70,237	74,641	79,077	83,546	88,049	92,586	97,159	101,768	106,415
Retire TY GR CR and TC1	781	4,778	11,562	18,173	24,637	30,976	32,396	37,740	42,998	48,170	53,253	58,245	63,144	67,955	72,740	77,556	82,403	87,283	92,196	97,143	102,125	107,142	112,196	117,287

AESC Gas Prices (Nominal $) and Mid CO2 Prices

Discount Rate: 6.71%

	$M NPVRR	$000 2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Retire TY GR CR and GH4	*715*	*4,778*	*11,562*	*18,173*	*24,637*	*30,976*	*29,376*	*34,221*	*38,988*	*43,677*	*48,284*	*52,808*	*57,247*	*61,606*	*65,941*	*70,304*	*74,695*	*79,114*	*83,562*	*88,039*	*92,548*	*97,088*	*101,660*	*106,265*
Retire TY GR CR and MC3	731	4,778	11,562	18,173	24,637	30,976	30,029	34,980	39,854	44,649	49,363	53,994	58,540	63,006	67,451	71,927	76,435	80,975	85,548	90,155	94,797	99,475	104,190	108,942
Retire TY GR CR and GH2	714	4,778	11,562	18,173	24,637	30,976	29,335	34,174	38,935	43,617	48,218	52,735	57,168	61,521	65,850	70,207	74,591	79,004	83,446	87,917	92,420	96,953	101,519	106,117
Retire TY GR CR and MC1-2	693	4,778	11,562	18,173	24,637	30,976	28,274	32,935	37,524	42,039	46,478	50,840	55,122	59,331	63,521	67,741	71,992	76,274	80,590	84,938	89,321	93,739	98,192	102,683
Retire TY GR CR BR1-2 and MC1-2	663	4,778	11,562	18,173	24,637	30,976	26,893	31,328	35,695	39,992	44,218	48,370	52,447	56,451	60,436	64,448	68,490	72,562	76,665	80,799	84,965	89,165	93,398	97,666
MTP Capital Delta																								
No Retirements																								
Retire TY	-16	0	0	0	0	0	-754	-878	-999	-1,118	-1,234	-1,347	-1,458	-1,568	-1,677	-1,787	-1,898	-2,008	-2,119	-2,230	-2,341	-2,453	-2,565	-2,678
Retire TY and GR3	-7	0	0	0	0	0	-309	-360	-410	-458	-506	-553	-598	-643	-689	-734	-780	-825	-871	-918	-964	-1,011	-1,057	-1,104
Retire TY GR3 and BR3	-47	0	0	0	0	0	-2,143	-2,493	-2,838	-3,176	-3,508	-3,834	-4,153	-4,469	-4,789	-5,111	-5,435	-5,762	-6,092	-6,425	-6,761	-7,100	-7,442	-7,787
Retire TY GR3 and CR4	-14	0	0	0	0	0	-678	-790	-899	-1,006	-1,109	-1,210	-1,308	-1,405	-1,501	-1,596	-1,691	-1,786	-1,880	-1,974	-2,023	-2,073	-2,125	-2,178
Retire TY GR3 CR4 and CR6	-21	0	0	0	0	0	-1,050	-1,223	-1,392	-1,557	-1,718	-1,874	-2,026	-2,175	-2,324	-2,471	-2,619	-2,765	-2,911	-3,056	-3,132	-3,210	-3,291	-3,373
Retire TY GR3 CR4 CR6 and BR1-2	-30	0	0	0	0	0	-1,380	-1,606	-1,828	-2,046	-2,260	-2,470	-2,675	-2,879	-3,085	-3,292	-3,501	-3,712	-3,925	-4,139	-4,356	-4,574	-4,794	-5,017
Retire TY GR3 and CR	-15	0	0	0	0	0	-735	-856	-975	-1,090	-1,202	-1,312	-1,418	-1,522	-1,626	-1,730	-1,833	-1,936	-2,038	-2,139	-2,193	-2,247	-2,304	-2,361
Retire TY GR3 CR and GH3	-85	0	0	0	0	0	-3,883	-4,524	-5,155	-5,777	-6,389	-6,991	-7,583	-8,165	-8,744	-9,328	-9,917	-10,511	-11,111	-11,716	-12,327	-12,944	-13,567	-14,196
Retire TY GR3 CR and GH1	-84	0	0	0	0	0	-3,843	-4,477	-5,101	-5,717	-6,322	-6,918	-7,504	-8,080	-8,653	-9,231	-9,814	-10,402	-10,995	-11,594	-12,199	-12,809	-13,425	-14,048
Retire TY GR and CR	-9	0	0	0	0	0	-432	-503	-572	-640	-707	-772	-836	-899	-962	-1,026	-1,089	-1,153	-1,217	-1,282	-1,347	-1,412	-1,477	-1,543
Retire TY GR CR and MC4	-85	0	0	0	0	0	-3,931	-4,581	-5,219	-5,846	-6,461	-7,064	-7,654	-8,231	-8,803	-9,376	-9,950	-10,526	-11,103	-11,683	-12,263	-12,846	-13,430	-14,016
Retire TY GR CR and TC1	-19	0	0	0	0	0	-855	-996	-1,135	-1,272	-1,407	-1,539	-1,670	-1,799	-1,927	-2,057	-2,188	-2,320	-2,453	-2,588	-2,725	-2,863	-3,002	-3,144
Retire TY GR CR and GH4	-85	0	0	0	0	0	-3,875	-4,514	-5,144	-5,765	-6,376	-6,977	-7,567	-8,148	-8,726	-9,308	-9,896	-10,489	-11,088	-11,692	-12,302	-12,917	-13,538	-14,166
Retire TY GR CR and MC3	-69	0	0	0	0	0	-3,222	-3,755	-4,278	-4,792	-5,296	-5,790	-6,274	-6,747	-7,216	-7,685	-8,156	-8,628	-9,102	-9,576	-10,052	-10,530	-11,009	-11,489
Retire TY GR CR and GH2	-86	0	0	0	0	0	-3,916	-4,562	-5,198	-5,825	-6,442	-7,049	-7,646	-8,233	-8,817	-9,405	-9,999	-10,599	-11,204	-11,814	-12,430	-13,052	-13,680	-14,314
Retire TY GR CR and MC1-2	-107	0	0	0	0	0	-4,977	-5,800	-6,609	-7,403	-8,182	-8,945	-9,692	-10,423	-11,146	-11,872	-12,599	-13,328	-14,060	-14,793	-15,529	-16,266	-17,006	-17,748
Retire TY GR CR BR1-2 and MC1-2	-137	0	0	0	0	0	-6,358	-7,407	-8,437	-9,449	-10,442	-11,415	-12,367	-13,302	-14,231	-15,164	-16,101	-17,041	-17,985	-18,932	-19,884	-20,840	-21,800	-22,765
Landfill Capital																								
No Retirements	651	936	3,049	4,085	3,979	4,416	39,767	41,494	43,787	48,239	54,623	57,334	57,530	61,040	65,618	72,665	80,567	85,321	86,158	95,531	104,979	105,473	112,416	114,016
Retire TY	651	936	3,049	4,083	3,979	4,416	39,767	41,494	43,787	48,239	54,623	57,334	57,530	61,040	65,618	72,663	80,567	85,321	86,158	95,531	104,979	105,473	112,416	114,016
Retire TY and GR3	651	936	3,049	4,083	3,979	4,416	39,767	41,494	43,787	48,239	54,623	57,334	57,530	61,040	65,618	72,663	80,567	85,321	86,158	95,531	104,979	105,473	112,416	114,016
Retire TY GR3 and BR3	623	936	3,049	4,083	3,979	4,416	37,951	39,624	41,357	45,703	51,388	54,092	54,278	56,779	61,276	67,072	75,058	79,869	80,799	90,239	99,761	100,853	110,728	112,431
Retire TY GR3 and CR4	630	678	2,210	2,959	2,884	3,200	37,807	39,545	42,143	46,312	52,051	54,774	55,433	58,982	63,545	71,132	78,799	83,511	84,290	93,598	102,979	103,613	110,606	112,238
Retire TY GR3 CR4 and CR6	*583*	*279*	*910*	*1,219*	*1,187*	*1,318*	*32,585*	*34,392*	*37,577*	*41,413*	*46,252*	*49,092*	*50,567*	*54,270*	*58,909*	*67,432*	*74,830*	*79,551*	*80,290*	*89,551*	*98,878*	*99,779*	*106,902*	*108,636*
Retire TY GR3 CR4 CR6 and BR1-2	565	279	910	1,219	1,187	1,318	31,416	33,188	36,012	39,779	44,168	47,004	48,472	51,524	56,111	63,830	71,281	76,052	76,837	86,142	95,516	96,803	105,815	107,615
Retire TY GR3 and CR	560	0	0	0	0	0	30,461	32,280	35,795	39,324	43,464	46,318	48,295	52,038	56,662	65,772	72,914	77,589	78,264	87,457	96,710	97,763	104,940	106,709
Retire TY GR3 CR and GH3	457	0	0	0	0	0	24,782	26,229	29,160	31,876	35,294	37,464	38,979	42,229	45,758	53,132	58,483	61,987	62,495	71,013	79,672	80,248	86,896	87,966
Retire TY GR3 CR and GH1	458	0	0	0	0	0	24,841	26,292	29,229	31,953	35,379	37,557	39,076	42,331	45,872	53,264	58,633	62,150	62,660	71,184	79,849	80,431	87,084	88,161
Retire TY GR and CR	560	0	0	0	0	0	30,461	32,280	35,795	39,324	43,464	46,318	48,295	52,038	56,662	65,772	72,914	77,589	78,264	87,457	96,710	97,763	104,940	106,709
Retire TY GR CR and MC4	560	0	0	0	0	0	30,461	32,280	35,795	39,324	43,464	46,318	48,295	52,038	56,662	65,772	72,914	77,589	78,264	87,457	96,710	97,763	104,940	106,709
Retire TY GR CR and TC1	518	0	0	0	0	0	28,496	30,215	33,623	37,108	41,204	44,013	45,943	49,639	54,215	63,277	70,369	74,993	75,616	82,094	88,471	89,469	92,586	94,706
Retire TY GR CR and GH4	457	0	0	0	0	0	24,794	26,242	29,174	31,891	35,311	37,483	38,998	42,249	45,781	53,159	58,513	62,020	62,528	71,047	79,707	80,285	86,934	88,005
Retire TY GR CR and MC3	560	0	0	0	0	0	30,461	32,280	35,795	39,324	43,464	46,318	48,295	52,038	56,662	65,772	72,914	77,589	78,264	87,457	96,710	97,763	104,940	106,709
Retire TY GR CR and GH2	456	0	0	0	0	0	24,734	26,179	29,104	31,814	35,226	37,391	38,901	42,147	45,667	53,027	58,363	61,857	62,364	70,876	79,530	80,102	86,746	87,810
Retire TY GR CR and MC1-2	560	0	0	0	0	0	30,461	32,280	35,795	39,324	43,464	46,318	48,295	52,038	56,662	65,772	72,914	77,589	78,264	87,457	96,710	97,763	104,940	106,709
Retire TY GR CR BR1-2 and MC1-2	541	0	0	0	0	0	29,292	31,075	34,230	37,690	41,380	44,230	46,200	49,293	53,864	62,170	69,365	74,090	74,812	84,048	93,348	94,787	103,853	105,688
Landfill Capital Delta																								
No Retirements																								
Retire TY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and GR3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and BR3	-29	0	0	0	0	0	-1,816	-1,870	-2,430	-2,536	-3,235	-3,242	-3,252	-4,261	-4,342	-5,591	-5,508	-5,431	-5,359	-5,291	-5,219	-4,620	-1,688	-1,585
Retire TY GR3 and CR4	-22	-258	-840	-1,124	-1,095	-1,216	-1,960	-1,949	-1,644	-1,927	-2,572	-2,560	-2,096	-2,059	-2,073	-1,531	-1,768	-1,810	-1,869	-1,932	-2,000	-1,861	-1,810	-1,778
Retire TY GR3 CR4 and CR6	-46	-399	-1,300	-1,741	-1,696	-1,882	-5,221	-5,152	-4,566	-4,899	-5,799	-5,682	-4,867	-4,712	-4,637	-3,700	-3,969	-3,960	-4,000	-4,047	-4,101	-3,833	-3,704	-3,602
Retire TY GR3 CR4 CR6 and BR1-2	-18	0	0	0	0	0	-1,170	-1,205	-1,565	-1,634	-2,084	-2,089	-2,095	-2,745	-2,797	-3,602	-3,549	-3,499	-3,452	-3,409	-3,362	-2,976	-1,088	-1,021
Retire TY GR3 and CR	-24	-279	-910	-1,219	-1,187	-1,318	-2,124	-2,112	-1,782	-2,089	-2,788	-2,774	-2,272	-2,232	-2,247	-1,659	-1,916	-1,962	-2,025	-2,094	-2,168	-2,017	-1,962	-1,927
Retire TY GR3 CR and GH3	-103	0	0	0	0	0	-5,680	-6,051	-6,635	-7,448	-8,170	-8,854	-9,316	-9,809	-10,904	-12,640	-14,431	-15,602	-15,769	-16,444	-17,038	-17,514	-18,044	-18,743
Retire TY GR3 CR and GH1	-102	0	0	0	0	0	-5,620	-5,988	-6,566	-7,371	-8,085	-8,761	-9,219	-9,707	-10,790	-12,508	-14,281	-15,439	-15,604	-16,273	-16,860	-17,332	-17,856	-18,548
Retire TY GR and CR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and TC1	-42	0	0	0	0	0	-1,965	-2,066	-2,172	-2,216	-2,260	-2,305	-2,351	-2,398	-2,446	-2,495	-2,545	-2,596	-2,648	-5,363	-8,239	-8,294	-12,354	-12,003
Retire TY GR CR and GH4	-103	0	0	0	0	0	-5,668	-6,038	-6,622	-7,433	-8,153	-8,835	-9,297	-9,789	-10,881	-12,614	-14,401	-15,569	-15,736	-16,410	-17,002	-17,478	-18,007	-18,704
Retire TY GR CR and MC3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH2	-104	0	0	0	0	0	-5,727	-6,101	-6,691	-7,510	-8,238	-8,927	-9,394	-9,891	-10,994	-12,745	-14,551	-15,732	-15,900	-16,581	-17,180	-17,660	-18,195	-18,899
Retire TY GR CR and MC1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR BR1-2 and MC1-2	-18	0	0	0	0	0	-1,170	-1,205	-1,565	-1,634	-2,084	-2,089	-2,095	-2,745	-2,797	-3,602	-3,549	-3,499	-3,452	-3,409	-3,362	-2,976	-1,088	-1,021
Water Capital																								
No Retirements	235	0	0	0	22,976	32,582	30,878	29,324	27,901	26,592	25,321	24,050	22,779	21,508	20,237	18,966	17,849	17,096	16,551	16,007	15,462	14,918	14,373	11,813
Retire TY	229	0	0	0	22,390	31,745	30,086	28,573	27,188	25,913	24,676	23,439	22,201	20,964	19,727	18,490	17,397	16,658	16,128	15,598	15,067	14,537	14,007	11,461
Retire TY and GR3	223	0	0	0	21,804	30,908	29,294	27,823	26,475	25,234	24,031	22,827	21,624	20,420	19,217	18,014	16,945	16,221	15,705	15,189	14,673	14,157	13,641	11,110
Retire TY GR3 and BR3	200	0	0	0	19,525	27,848	26,398	25,073	23,858	22,739	21,654	20,569	19,484	18,399	17,315	16,230	15,242	14,561	14,088	13,615	13,142	12,669	12,196	9,707
Retire TY GR3 and CR4	213	0	0	0	20,824	29,326	27,800	26,409	25,136	23,965	22,830	21,695	20,560	19,425	18,290	17,155	16,139	15,450	14,970	14,490	14,010	13,530	13,050	11,110
Retire TY GR3 CR4 and CR6	197	0	0	0	19,306	26,877	25,487	24,221	23,063	21,999	20,970	19,941	18,912	17,884	16,855	15,826	14,890	14,257	13,833	13,408	12,984	12,560	12,135	11,110
Retire TY GR3 CR4 CR6 and BR1-2	182	0	0	0	17,838	24,906	23,621	22,450	21,377	20,391	19,439	18,486	17,534	16,582	15,629	14,677	13,793	13,188	12,791	12,394	11,998	11,601	11,204	10,206
Retire TY GR3 and CR	186	0	0	0	18,244	25,162	23,867	22,689	21,612	20,623	19,669	18,714	17,759	16,805	15,850	14,895	14,016	13,422	13,037	12,651	12,266	11,880	11,495	11,110
Retire TY GR3 CR and GH3	171	0	0	0	16,767	23,187	21,992	20,903	19,909	18,995	18,113	17,230	16,348	15,465	14,583	13,700	12,893	12,349	11,991	11,632	11,274	10,915	10,557	10,199
Retire TY GR3 CR and GH1	171	0	0	0	16,782	23,208	22,011	20,922	19,926	19,012	18,129	17,246	16,362	15,479	14,596	13,713	12,905	12,360	12,001	11,643	11,284	10,926	10,567	10,208
Retire TY GR and CR	177	0	0	0	17,425	23,993	22,761	21,640	20,616	19,675	18,768	17,860	16,953	16,045	15,138	14,230	13,385	12,811	12,445	12,080	11,715	11,349	10,984	10,618

Discount Rate: 6.71%

AESC Gas Prices (Nominal $) and Mid CO2 Prices

	$M NPVRR	$000 2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Retire TY GR CR and MC4	157	0	0	0	15,512	21,201	20,113	19,124	18,221	17,394	16,595	15,796	14,998	14,199	13,401	12,602	11,866	11,371	11,056	10,741	10,426	10,111	9,796	9,481
Retire TY GR CR and TC1	170	0	0	0	16,655	22,985	21,804	20,728	19,745	18,842	17,971	17,100	16,228	15,357	14,486	13,615	12,806	12,256	11,903	11,550	11,198	10,845	10,492	10,140
Retire TY GR CR and GH4	163	0	0	0	15,951	22,022	20,889	19,858	18,916	18,050	17,215	16,380	15,544	14,709	13,873	13,038	12,264	11,740	11,401	11,063	10,725	10,386	10,048	9,709
Retire TY GR CR and MC3	161	0	0	0	15,857	21,704	20,590	19,578	18,653	17,805	16,987	16,169	15,350	14,532	13,714	12,896	12,140	11,631	11,307	10,983	10,659	10,334	10,010	9,686
Retire TY GR CR and GH2	162	0	0	0	15,936	22,002	20,870	19,840	18,898	18,034	17,199	16,364	15,529	14,695	13,860	13,025	12,253	11,729	11,391	11,052	10,714	10,376	10,038	9,700
Retire TY GR CR and MC1-2	152	0	0	0	15,003	20,457	19,408	18,454	17,584	16,786	16,017	15,247	14,477	13,708	12,938	12,168	11,461	10,988	10,686	10,385	10,083	9,782	9,480	9,179
Retire TY GR CR BR1-2 and MC1-2	137	0	0	0	13,535	18,486	17,542	16,683	15,898	15,178	14,485	13,792	13,099	12,406	11,713	11,019	10,364	9,918	9,645	9,371	9,097	8,823	8,549	8,275
Water Capital Delta																								
No Retirements																								
Retire TY	-6	0	0	0	-586	-837	-792	-751	-713	-679	-645	-611	-577	-544	-510	-476	-452	-438	-423	-409	-395	-380	-366	-352
Retire TY and GR3	-6	0	0	0	-586	-837	-792	-751	-713	-679	-645	-611	-577	-544	-510	-476	-452	-438	-423	-409	-395	-380	-366	-352
Retire TY GR3 and BR3	-23	0	0	0	-2,279	-3,060	-2,897	-2,749	-2,616	-2,496	-2,377	-2,258	-2,140	-2,021	-1,902	-1,784	-1,703	-1,660	-1,617	-1,574	-1,531	-1,488	-1,445	-1,402
Retire TY GR3 and CR4	-10	0	0	0	-980	-1,582	-1,494	-1,413	-1,339	-1,269	-1,201	-1,132	-1,064	-996	-927	-859	-806	-770	-735	-699	-663	-627	-591	0
Retire TY GR3 CR4 and CR6	-16	0	0	0	-1,518	-2,449	-2,313	-2,188	-2,073	-1,966	-1,860	-1,754	-1,647	-1,541	-1,435	-1,329	-1,249	-1,193	-1,137	-1,082	-1,026	-970	-915	0
Retire TY GR3 CR4 CR6 and BR1-2	-15	0	0	0	-1,468	-1,971	-1,866	-1,771	-1,686	-1,608	-1,531	-1,455	-1,378	-1,302	-1,226	-1,149	-1,097	-1,069	-1,042	-1,014	-986	-959	-931	-903
Retire TY GR3 and CR	-11	0	0	0	-1,062	-1,715	-1,619	-1,532	-1,451	-1,376	-1,302	-1,227	-1,153	-1,079	-1,005	-931	-874	-835	-796	-757	-718	-679	-640	0
Retire TY GR3 CR and GH3	-15	0	0	0	-1,477	-1,975	-1,876	-1,786	-1,703	-1,628	-1,556	-1,484	-1,411	-1,339	-1,267	-1,195	-1,123	-1,073	-1,046	-1,019	-992	-965	-938	-911
Retire TY GR3 CR and GH1	-15	0	0	0	-1,462	-1,954	-1,856	-1,767	-1,686	-1,611	-1,540	-1,468	-1,397	-1,325	-1,254	-1,183	-1,111	-1,062	-1,035	-1,008	-982	-955	-928	-901
Retire TY GR and CR	-8	0	0	0	-819	-1,169	-1,106	-1,049	-996	-948	-901	-854	-807	-759	-712	-665	-631	-611	-591	-571	-551	-531	-511	-491
Retire TY GR CR and MC4	-20	0	0	0	-1,913	-2,792	-2,648	-2,516	-2,394	-2,281	-2,172	-2,064	-1,955	-1,846	-1,737	-1,628	-1,519	-1,440	-1,389	-1,339	-1,288	-1,238	-1,187	-1,137
Retire TY GR CR and TC1	-8	0	0	0	-770	-1,008	-958	-912	-871	-833	-797	-760	-724	-688	-652	-616	-579	-555	-542	-529	-517	-504	-491	-479
Retire TY GR CR and GH4	-15	0	0	0	-1,474	-1,971	-1,872	-1,782	-1,700	-1,625	-1,553	-1,481	-1,409	-1,337	-1,265	-1,193	-1,121	-1,071	-1,044	-1,017	-990	-963	-936	-909
Retire TY GR CR and MC3	-16	0	0	0	-1,568	-2,289	-2,171	-2,063	-1,963	-1,870	-1,781	-1,692	-1,602	-1,513	-1,424	-1,335	-1,245	-1,180	-1,139	-1,097	-1,056	-1,015	-973	-932
Retire TY GR CR and GH2	-15	0	0	0	-1,489	-1,991	-1,891	-1,800	-1,718	-1,642	-1,569	-1,496	-1,423	-1,350	-1,278	-1,205	-1,132	-1,082	-1,055	-1,028	-1,000	-973	-946	-918
Retire TY GR CR and MC1-2	-25	0	0	0	-2,422	-3,536	-3,354	-3,186	-3,032	-2,889	-2,751	-2,613	-2,475	-2,337	-2,200	-2,062	-1,924	-1,823	-1,759	-1,695	-1,631	-1,567	-1,504	-1,440
Retire TY GR CR BR1-2 and MC1-2	-40	0	0	0	-3,890	-5,507	-5,220	-4,957	-4,717	-4,497	-4,282	-4,068	-3,854	-3,639	-3,425	-3,211	-3,021	-2,892	-2,801	-2,709	-2,618	-2,526	-2,434	-2,343
Total Capital																								
No Retirements	7,372	11,645	80,960	223,239	417,024	556,928	647,904	670,624	650,837	634,544	620,691	609,718	634,348	665,478	684,757	681,756	671,072	668,186	706,958	758,555	777,302	758,664	749,460	715,034
Retire TY	7,378	11,645	79,637	224,282	446,948	588,592	677,458	656,023	636,868	621,158	607,850	597,389	622,388	653,762	673,285	670,457	659,867	657,065	695,920	747,601	766,431	748,991	740,957	706,556
Retire TY and GR3	7,432	11,645	78,314	218,731	429,426	560,600	639,143	623,519	635,146	652,212	663,075	652,429	636,970	663,905	695,361	718,559	719,421	706,743	699,264	746,118	779,013	791,670	796,504	758,752
Retire TY GR3 and BR3	7,591	11,645	78,110	217,280	430,781	565,859	650,261	635,256	656,313	684,056	701,918	692,385	668,349	651,744	666,538	687,627	705,483	709,656	744,957	793,058	808,433	788,310	780,038	742,569
Retire TY GR3 and CR4	7,247	10,323	70,142	194,046	382,929	515,864	599,437	610,288	625,478	635,085	629,135	618,073	643,150	674,411	693,978	691,328	679,591	675,812	713,673	764,354	782,225	779,856	769,330	732,973
Retire TY GR3 CR4 and CR6	6,953	7,890	58,391	161,563	333,195	478,744	567,262	556,628	583,097	614,296	635,288	629,868	611,097	599,673	618,593	645,335	664,654	670,956	708,329	758,498	776,042	774,214	764,509	749,318
Retire TY GR3 CR4 CR6 and BR1-2	6,909	7,401	51,885	145,958	305,152	454,483	580,160	605,822	622,624	618,136	603,318	593,823	621,259	653,625	674,738	672,672	660,149	648,472	641,878	689,555	723,197	753,734	760,850	745,626
Retire TY GR3 and CR	6,670	6,564	49,627	135,151	283,202	430,646	525,779	550,829	581,543	602,060	599,652	584,447	575,227	606,911	642,980	671,200	672,561	661,007	654,572	702,453	754,517	784,356	789,176	772,870
Retire TY GR3 CR and GH3	6,842	6,449	49,062	133,790	301,294	467,268	564,576	560,744	586,015	615,283	634,227	627,716	608,669	596,489	613,999	638,790	654,739	658,195	693,415	740,907	773,887	769,496	757,896	741,215
Retire TY GR3 CR and GH1	6,839	6,377	44,734	127,775	292,349	466,137	573,699	603,263	630,259	647,060	641,246	622,878	604,333	594,407	624,920	663,221	688,642	686,774	669,137	660,236	659,782	700,966	754,299	785,981
Retire TY GR and CR	6,749	6,564	47,742	129,241	273,631	426,657	554,455	581,658	600,576	597,261	583,605	575,540	604,896	639,366	661,930	662,462	650,616	639,827	634,108	682,659	735,214	765,387	770,540	755,758
Retire TY GR CR and MC4	6,634	5,702	35,032	107,759	275,247	447,621	563,631	557,830	548,096	565,523	586,478	597,892	594,915	613,037	634,652	651,991	649,560	644,705	681,304	730,655	765,384	762,799	753,252	738,797
Retire TY GR CR and TC1	6,904	6,564	47,742	130,829	297,424	466,949	570,610	567,463	593,708	624,254	644,392	639,029	620,902	611,459	643,086	683,459	711,295	711,053	693,882	683,283	680,893	722,850	773,008	806,096
Retire TY GR CR and GH4	6,780	6,442	47,215	130,615	304,078	482,790	585,035	577,627	566,145	581,593	600,587	610,039	605,320	621,667	640,910	655,243	650,268	644,042	680,057	728,066	761,530	757,795	747,038	731,201
Retire TY GR CR and MC3	6,773	6,564	46,363	123,639	284,931	452,096	555,309	552,532	579,179	610,044	630,502	625,467	607,677	598,581	630,560	671,264	699,305	699,128	681,978	674,058	674,510	716,488	770,672	803,375
Retire TY GR CR and GH2	6,791	6,552	44,231	126,167	297,728	480,499	589,688	581,931	570,133	585,317	604,123	613,422	608,553	624,749	643,836	657,993	652,635	645,826	681,505	729,421	762,792	758,965	748,116	732,185
Retire TY GR CR and MC1-2	6,552	6,564	40,536	109,522	268,381	414,445	521,146	523,335	551,476	583,660	605,497	601,920	585,627	576,237	597,144	625,900	644,719	642,262	634,315	680,619	731,047	760,472	766,124	750,649
Retire TY GR CR BR1-2 and MC1-2	6,394	6,074	34,030	93,917	240,337	384,731	495,994	532,711	563,331	584,002	581,617	567,169	558,852	590,813	627,763	655,646	655,961	642,214	633,542	679,179	728,997	758,058	764,730	748,450
Total Capital Delta																								
No Retirements																								
Retire TY	5	0	-1,323	1,043	29,924	31,664	29,554	-14,601	-13,969	-13,386	-12,841	-12,330	-11,960	-11,716	-11,473	-11,299	-11,205	-11,121	-11,038	-10,954	-10,871	-9,673	-8,504	-8,478
Retire TY and GR3	54	0	-1,323	-5,551	-17,523	-27,992	-38,315	-32,504	-1,722	31,054	55,224	55,040	14,583	10,142	22,076	48,102	59,555	49,677	3,344	-1,482	12,582	42,679	55,547	52,196
Retire TY GR3 and BR3	159	0	-204	-1,451	1,355	5,259	11,117	11,737	21,167	31,844	38,843	39,957	31,378	-12,161	-28,822	-30,932	-13,939	2,913	45,693	46,940	29,420	-3,360	-16,466	-16,184
Retire TY GR3 and CR4	-184	-1,322	-8,171	-24,685	-46,496	-44,737	-39,707	-13,231	-9,668	-17,126	-33,940	-34,356	6,180	10,507	-1,383	-27,231	-39,830	-30,931	14,408	18,236	3,212	-11,814	-27,174	-25,779
Retire TY GR3 CR4 and CR6	-295	-2,432	-11,751	-32,483	-49,734	-37,120	-32,175	-53,661	-42,381	-20,789	6,153	11,795	-32,053	-74,738	-75,385	-45,993	-14,937	-4,856	-5,344	-5,856	-6,183	-5,641	-4,821	16,344
Retire TY GR3 CR4 CR6 and BR1-2	-44	-489	-6,506	-15,605	-28,043	-24,261	12,899	49,194	39,528	3,840	-31,970	-36,045	10,162	53,952	56,145	27,338	-4,505	-22,483	-66,451	-68,943	-52,845	-20,481	-3,659	-3,692
Retire TY GR3 and CR	-283	-1,326	-8,764	-26,412	-49,993	-48,098	-41,483	-5,799	-1,554	-12,236	-35,636	-45,421	-35,870	7,238	24,387	25,865	7,907	-9,949	-53,757	-56,045	-21,525	10,142	24,666	23,552
Retire TY GR3 CR and GH3	172	-115	-565	-1,362	18,092	36,622	38,797	9,915	4,472	13,222	34,576	43,269	33,442	-10,422	-28,982	-32,410	-17,822	-2,812	38,843	38,453	19,371	-14,860	-31,279	-31,655
Retire TY GR3 CR and GH1	169	-186	-4,894	-7,376	9,147	35,490	47,920	52,434	48,716	44,999	41,595	38,431	29,106	-12,504	-18,061	-7,979	16,081	25,767	14,565	-42,218	-94,735	-83,390	-34,876	13,111
Retire TY GR and CR	79	0	-1,885	-5,910	-9,571	-3,989	28,676	30,830	19,033	-4,800	-16,046	-8,907	29,669	32,455	18,950	-8,739	-21,945	-21,180	-20,464	-19,794	-19,303	-18,969	-18,635	-17,112
Retire TY GR CR and MC4	-114	-862	-12,710	-21,482	1,617	20,964	9,176	-23,829	-52,480	-31,737	2,873	22,352	-9,981	-26,328	-27,278	-10,470	-1,056	4,878	47,196	47,996	30,169	-2,588	-17,288	-16,961
Retire TY GR CR and TC1	155	0	0	1,588	23,793	40,292	16,155	-14,196	-6,869	26,994	60,787	63,490	16,006	-27,907	-18,844	20,998	60,679	71,226	59,774	623	-54,321	-42,537	2,467	50,338
Retire TY GR CR and GH4	31	-122	-527	1,374	30,448	56,133	30,581	-4,031	-34,431	-15,668	16,982	34,500	423	-17,699	-21,020	-7,219	-348	4,215	45,949	45,407	26,316	-7,592	-23,502	-24,557
Retire TY GR CR and MC3	24	0	-1,379	-5,602	11,300	25,439	855	-29,126	-21,397	12,783	46,896	49,927	2,781	-40,785	-31,370	8,802	48,689	59,301	47,870	-8,601	-60,704	-48,899	132	47,617
Retire TY GR CR and GH2	42	-11	-3,511	-3,074	24,097	53,842	35,233	273	-30,443	-11,944	20,517	37,883	3,656	-14,617	-18,094	-4,468	2,019	5,999	47,398	46,762	27,578	-6,422	-22,424	-23,573
Retire TY GR CR and MC1-2	-197	0	-7,206	-19,719	-5,250	-12,212	-33,309	-58,323	-49,100	-13,600	21,891	26,380	-19,269	-63,128	-64,786	-36,561	-5,897	2,435	207	-2,040	-4,167	-4,915	-4,416	-5,109
Retire TY GR CR BR1-2 and MC1-2	-355	-489	-13,712	-35,324	-33,293	-41,926	-58,461	-48,948	-37,245	-13,259	-1,988	-8,370	-46,044	-48,553	-34,168	-6,816	5,345	2,386	-566	-3,480	-6,217	-7,329	-5,811	-7,308
Retirement O&M Cost																								
No Retirements	0																							
Retire TY	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and GR3	3	0	0	0	0	0	4,200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and BR3	5	0	0	0	0	0	6,300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR4	5	0	0	0	0	0	6,300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 and CR6	6	0	0	0	0	0	8,400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 CR6 and BR1-2	9	0	0	0	0	0	12,600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR	8	0	0	0	0	0	10,500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH3	9	0	0	0	0	0	12,600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

AESC Gas Prices (Nominal $) and Mid CO2 Prices

Discount Rate: 6.71%

	$M NPVRR	$000 2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Retire TY GR3 CR and GH1	9	0	0	0	0	0	12,600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR	9	0	0	0	0	0	12,600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC4	11	0	0	0	0	0	14,700	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and TC1	11	0	0	0	0	0	14,700	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH4	11	0	0	0	0	0	14,700	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC3	11	0	0	0	0	0	14,700	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH2	11	0	0	0	0	0	14,700	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC1-2	12	0	0	0	0	0	16,800	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR BR1-2 and MC1-2	15	0	0	0	0	0	21,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retirement O&M Cost Delta																								
No Retirements																								
Retire TY	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and GR3	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and BR3	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR4	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 and CR6	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 CR6 and BR1-2	3	0	0	0	0	0	4,200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH3	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH1	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC4	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and TC1	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH4	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC3	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH2	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC1-2	3	0	0	0	0	0	4,200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR BR1-2 and MC1-2	6	0	0	0	0	0	8,400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Existing Unit Fixed O&M																								
No Retirements	3,421	214,901	219,007	210,243	214,448	218,737	223,112	227,574	232,125	236,768	241,503	246,333	251,260	256,285	261,411	266,639	271,972	277,411	282,959	288,619	294,391	300,279	306,284	312,410
Retire TY	3,416	214,901	219,007	210,243	214,448	218,737	222,668	227,121	231,663	236,297	241,023	245,843	250,760	255,775	260,891	266,108	271,431	276,859	282,396	288,044	293,805	299,681	305,675	311,788
Retire TY and GR3	3,365	214,901	219,007	210,243	214,448	218,737	218,041	222,402	226,850	231,387	236,015	240,735	245,550	250,461	255,470	260,579	265,791	271,107	276,529	282,059	287,701	293,455	299,324	305,310
Retire TY GR3 and BR3	3,190	214,901	219,007	210,243	214,448	218,737	202,225	206,270	210,395	214,603	218,895	223,273	227,738	232,293	236,939	241,678	246,511	251,442	256,470	261,600	266,832	272,169	277,612	283,164
Retire TY GR3 and CR4	3,224	214,901	219,007	210,243	214,448	218,737	205,276	209,382	213,569	217,841	222,197	226,641	231,174	235,798	240,514	245,324	250,230	255,235	260,340	265,547	270,857	276,275	281,800	287,436
Retire TY GR3 CR4 and CR6	3,104	214,901	219,007	210,243	214,448	218,737	194,481	198,370	202,338	206,385	210,512	214,722	219,017	223,397	227,865	232,423	237,071	241,812	246,649	251,582	256,613	261,745	266,980	272,320
Retire TY GR3 CR4 CR6 and BR1-2	2,972	214,901	219,007	210,243	214,448	218,737	182,572	186,223	189,948	193,747	197,621	201,574	205,605	209,717	213,912	218,190	222,554	227,005	231,545	236,176	240,899	245,717	250,632	255,644
Retire TY GR3 and CR	2,954	214,901	219,007	210,243	214,448	218,737	180,907	184,525	188,216	191,980	195,819	199,736	203,731	207,805	211,961	216,200	220,524	224,935	229,434	234,022	238,703	243,477	248,346	253,313
Retire TY GR3 CR and GH3	2,807	214,901	219,007	210,243	214,448	218,737	167,668	171,022	174,442	177,931	181,490	185,119	188,822	192,598	196,450	200,379	204,387	208,475	212,644	216,897	221,235	225,660	230,173	234,776
Retire TY GR3 CR and GH1	2,743	214,901	219,007	210,243	214,448	218,737	161,842	165,078	168,380	171,748	175,183	178,686	182,260	185,905	189,623	193,416	197,284	201,230	205,254	209,359	213,547	217,818	222,174	226,617
Retire TY GR and CR	2,852	214,901	219,007	210,243	214,448	218,737	171,746	175,181	178,684	182,258	185,903	189,621	193,414	197,282	201,227	205,252	209,357	213,544	217,815	222,171	226,615	231,147	235,770	240,485
Retire TY GR CR and MC4	2,650	214,901	219,007	210,243	214,448	218,737	153,445	156,514	159,644	162,837	166,094	169,416	172,804	176,260	179,786	183,381	187,049	190,790	194,606	198,498	202,468	206,517	210,647	214,860
Retire TY GR CR and TC1	2,648	214,901	219,007	210,243	214,448	218,737	153,278	156,343	159,470	162,660	165,913	169,231	172,616	176,068	179,589	183,181	186,845	190,582	194,393	198,281	202,247	206,292	210,418	214,626
Retire TY GR CR and GH4	2,710	214,901	219,007	210,243	214,448	218,737	158,900	162,078	165,319	168,625	171,998	175,438	178,947	182,526	186,176	189,900	193,698	197,572	201,523	205,554	209,665	213,858	218,135	222,498
Retire TY GR CR and MC3	2,650	214,901	219,007	210,243	214,448	218,737	153,470	156,540	159,671	162,864	166,121	169,444	172,833	176,289	179,815	183,411	187,079	190,821	194,637	198,530	202,501	206,551	210,682	214,896
Retire TY GR CR and GH2	2,695	214,901	219,007	210,243	214,448	218,737	157,494	160,644	163,857	167,134	170,477	173,886	177,364	180,911	184,530	188,220	191,985	195,824	199,741	203,736	207,810	211,966	216,206	220,530
Retire TY GR CR and MC1-2	2,525	214,901	219,007	210,243	214,448	218,737	142,170	145,013	147,914	150,872	153,889	156,967	160,106	163,308	166,575	169,906	173,304	176,770	180,306	183,912	187,590	191,342	195,169	199,072
Retire TY GR CR BR1-2 and MC1-2	2,393	214,901	219,007	210,243	214,448	218,737	130,261	132,866	135,523	138,234	140,998	143,818	146,695	149,629	152,621	155,674	158,787	161,963	165,202	168,506	171,876	175,314	178,820	182,397
Existing Unit Fixed O&M Delta																								
No Retirements																								
Retire TY	-5	0	0	0	0	0	-444	-453	-462	-471	-480	-490	-500	-510	-520	-530	-541	-552	-563	-574	-586	-597	-609	-622
Retire TY and GR3	-51	0	0	0	0	0	-4,627	-4,719	-4,813	-4,910	-5,008	-5,108	-5,210	-5,314	-5,421	-5,529	-5,640	-5,753	-5,868	-5,985	-6,105	-6,227	-6,351	-6,478
Retire TY GR3 and BR3	-175	0	0	0	0	0	-15,816	-16,132	-16,455	-16,784	-17,120	-17,462	-17,811	-18,167	-18,531	-18,901	-19,279	-19,665	-20,058	-20,460	-20,869	-21,286	-21,712	-22,146
Retire TY GR3 and CR4	-141	0	0	0	0	0	-12,765	-13,020	-13,281	-13,546	-13,817	-14,094	-14,375	-14,663	-14,956	-15,255	-15,560	-15,872	-16,189	-16,513	-16,843	-17,180	-17,524	-17,874
Retire TY GR3 CR4 and CR6	-120	0	0	0	0	0	-10,795	-11,011	-11,231	-11,456	-11,685	-11,919	-12,157	-12,400	-12,648	-12,901	-13,159	-13,423	-13,691	-13,965	-14,244	-14,529	-14,820	-15,116
Retire TY GR3 CR4 CR6 and BR1-2	-132	0	0	0	0	0	-11,909	-12,147	-12,390	-12,638	-12,891	-13,149	-13,412	-13,680	-13,953	-14,232	-14,517	-14,807	-15,104	-15,406	-15,714	-16,028	-16,349	-16,676
Retire TY GR3 and CR	-150	0	0	0	0	0	-13,574	-13,845	-14,122	-14,405	-14,693	-14,987	-15,286	-15,592	-15,904	-16,222	-16,546	-16,877	-17,215	-17,559	-17,910	-18,269	-18,634	-19,007
Retire TY GR3 CR and GH3	-147	0	0	0	0	0	-13,238	-13,503	-13,773	-14,049	-14,330	-14,616	-14,909	-15,207	-15,511	-15,821	-16,138	-16,460	-16,790	-17,125	-17,468	-17,817	-18,174	-18,537
Retire TY GR3 CR and GH1	-211	0	0	0	0	0	-19,065	-19,447	-19,835	-20,232	-20,637	-21,050	-21,471	-21,900	-22,338	-22,785	-23,240	-23,705	-24,179	-24,663	-25,156	-25,659	-26,172	-26,696
Retire TY GR and CR	-101	0	0	0	0	0	-9,161	-9,344	-9,531	-9,722	-9,916	-10,115	-10,317	-10,523	-10,734	-10,949	-11,167	-11,391	-11,619	-11,851	-12,088	-12,330	-12,576	-12,828
Retire TY GR CR and MC4	-203	0	0	0	0	0	-18,300	-18,666	-19,040	-19,421	-19,809	-20,205	-20,609	-21,021	-21,442	-21,871	-22,308	-22,754	-23,209	-23,674	-24,147	-24,630	-25,123	-25,625
Retire TY GR CR and TC1	-205	0	0	0	0	0	-18,468	-18,837	-19,214	-19,598	-19,990	-20,390	-20,798	-21,214	-21,638	-22,071	-22,512	-22,962	-23,422	-23,890	-24,368	-24,855	-25,352	-25,859
Retire TY GR CR and GH4	-142	0	0	0	0	0	-12,846	-13,103	-13,365	-13,632	-13,905	-14,183	-14,467	-14,756	-15,051	-15,352	-15,659	-15,973	-16,292	-16,618	-16,950	-17,289	-17,635	-17,988
Retire TY GR CR and MC3	-202	0	0	0	0	0	-18,275	-18,641	-19,014	-19,394	-19,782	-20,177	-20,581	-20,993	-21,412	-21,841	-22,278	-22,723	-23,178	-23,641	-24,114	-24,596	-25,088	-25,590
Retire TY GR CR and GH2	-158	0	0	0	0	0	-14,251	-14,536	-14,827	-15,124	-15,426	-15,735	-16,049	-16,370	-16,698	-17,032	-17,372	-17,720	-18,074	-18,436	-18,804	-19,181	-19,564	-19,955
Retire TY GR CR and MC1-2	-328	0	0	0	0	0	-29,576	-30,167	-30,771	-31,386	-32,014	-32,654	-33,307	-33,973	-34,653	-35,346	-36,053	-36,774	-37,509	-38,259	-39,025	-39,805	-40,601	-41,413
Retire TY GR CR BR1-2 and MC1-2	-460	0	0	0	0	0	-41,485	-42,315	-43,161	-44,024	-44,905	-45,803	-46,719	-47,653	-48,606	-49,578	-50,570	-51,581	-52,613	-53,665	-54,738	-55,833	-56,950	-58,089
New Controls Fixed O&M																								
No Retirements	426	0	8	123	4,486	12,567	37,131	37,913	38,710	39,524	40,353	41,199	42,023	42,864	43,721	44,595	45,487	46,397	47,325	48,271	49,237	50,222	51,226	52,251
Retire TY	383	0	8	123	4,486	12,567	33,231	33,935	34,653	35,385	36,132	36,893	37,631	38,384	39,152	39,935	40,733	41,548	42,379	43,227	44,091	44,973	45,872	46,790
Retire TY and GR3	340	0	8	123	4,486	12,567	29,332	29,957	30,595	31,246	31,910	32,588	33,239	33,904	34,582	35,274	35,979	36,699	37,433	38,182	38,945	39,724	40,519	41,329
Retire TY GR3 and BR3	327	0	8	123	4,486	11,499	28,243	28,847	29,462	30,091	30,732	31,385	32,013	32,653	33,306	33,973	34,652	35,345	36,052	36,773	37,508	38,259	39,024	39,804
Retire TY GR3 and CR4	298	0	8	123	4,486	12,567	25,497	26,046	26,606	27,177	27,760	28,354	28,921	29,499	30,089	30,691	31,305	31,931	32,570	33,221	33,886	34,563	35,255	35,960
Retire TY GR3 CR4 and CR6	243	0	8	123	4,486	12,567	20,527	20,977	21,435	21,903	22,380	22,867	23,324	23,791	24,267	24,752	25,247	25,752	26,267	26,792	27,328	27,875	28,432	29,001
Retire TY GR3 CR4 CR6 and BR1-2	222	0	8	123	2,960	10,953	18,881	19,298	19,723	20,156	20,598	21,049	21,470	21,900	22,338	22,784	23,240	23,705	24,179	24,663	25,156	25,659	26,172	26,696

AESC Gas Prices (Nominal $) and Mid CO2 Prices

Discount Rate: 6.71%

	$M NPVRR	$000 2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Retire TY GR3 and CR	198	0	8	123	4,486	12,567	16,481	16,850	17,226	17,609	18,000	18,399	18,767	19,143	19,526	19,916	20,314	20,721	21,135	21,556	21,989	22,429	22,877	23,335
Retire TY GR3 CR and GH3	182	0	8	123	4,486	11,914	15,150	15,492	15,841	16,197	16,560	16,930	17,269	17,614	17,966	18,326	18,692	19,066	19,447	19,836	20,233	20,638	21,050	21,471
Retire TY GR3 CR and GH1	181	0	8	123	3,188	11,248	15,136	15,477	15,826	16,181	16,544	16,914	17,252	17,597	17,949	18,308	18,675	19,048	19,429	19,818	20,214	20,618	21,031	21,451
Retire TY GR and CR	142	0	8	123	4,486	12,567	11,459	11,728	12,001	12,280	12,565	12,855	13,112	13,375	13,642	13,915	14,193	14,477	14,767	15,062	15,363	15,670	15,984	16,304
Retire TY GR CR and MC4	123	0	8	123	3,739	11,012	9,874	10,110	10,352	10,598	10,849	11,105	11,327	11,553	11,784	12,020	12,261	12,506	12,756	13,011	13,271	13,537	13,807	14,084
Retire TY GR CR and TC1	131	0	8	123	4,486	12,073	10,452	10,700	10,953	11,211	11,475	11,743	11,978	12,218	12,462	12,711	12,965	13,225	13,489	13,759	14,034	14,315	14,601	14,893
Retire TY GR CR and GH4	127	0	8	123	4,486	11,935	10,170	10,413	10,660	10,912	11,170	11,432	11,661	11,894	12,132	12,374	12,622	12,874	13,132	13,395	13,662	13,936	14,214	14,499
Retire TY GR CR and MC3	126	0	8	99	4,449	11,892	10,102	10,343	10,589	10,839	11,095	11,356	11,583	11,815	12,051	12,292	12,538	12,789	13,045	13,306	13,572	13,843	14,120	14,402
Retire TY GR CR and GH2	121	0	0	24	3,608	10,878	9,737	9,970	10,209	10,452	10,700	10,953	11,172	11,396	11,624	11,856	12,093	12,335	12,582	12,833	13,090	13,352	13,619	13,891
Retire TY GR CR and MC1-2	105	0	8	123	4,486	9,706	8,474	8,643	8,816	8,992	9,172	9,356	9,543	9,734	9,928	10,127	10,329	10,536	10,747	10,962	11,181	11,405	11,633	11,865
Retire TY GR CR BR1-2 and MC1-2	84	0	8	123	2,960	8,092	6,828	6,964	7,103	7,245	7,390	7,538	7,689	7,843	8,000	8,160	8,323	8,489	8,659	8,832	9,009	9,189	9,373	9,560
New Controls Fixed O&M Delta																								
No Retirements																								
Retire TY	-43	0	0	0	0	0	-3,900	-3,978	-4,057	-4,139	-4,221	-4,306	-4,392	-4,480	-4,569	-4,661	-4,754	-4,849	-4,946	-5,045	-5,146	-5,249	-5,354	-5,461
Retire TY and GR3	-43	0	0	0	0	0	-3,900	-3,978	-4,057	-4,139	-4,221	-4,306	-4,392	-4,480	-4,569	-4,661	-4,754	-4,849	-4,946	-5,045	-5,146	-5,249	-5,354	-5,461
Retire TY GR3 and BR3	-13	0	0	0	0	-1,068	-1,089	-1,111	-1,133	-1,156	-1,179	-1,202	-1,226	-1,251	-1,276	-1,301	-1,327	-1,354	-1,381	-1,409	-1,437	-1,466	-1,495	-1,525
Retire TY GR3 and CR4	-42	0	0	0	0	0	-3,835	-3,911	-3,990	-4,069	-4,151	-4,234	-4,318	-4,405	-4,493	-4,583	-4,674	-4,768	-4,863	-4,960	-5,060	-5,161	-5,264	-5,369
Retire TY GR3 CR4 and CR6	-55	0	0	0	0	0	-4,970	-5,069	-5,171	-5,274	-5,379	-5,487	-5,597	-5,709	-5,823	-5,939	-6,058	-6,179	-6,303	-6,429	-6,557	-6,689	-6,822	-6,959
Retire TY GR3 CR4 CR6 and BR1-2	-21	0	0	0	-1,526	-1,614	-1,646	-1,679	-1,713	-1,747	-1,782	-1,818	-1,854	-1,891	-1,929	-1,967	-2,007	-2,047	-2,088	-2,130	-2,172	-2,216	-2,260	-2,305
Retire TY GR3 and CR	-45	0	0	0	0	0	-4,046	-4,127	-4,210	-4,294	-4,380	-4,467	-4,557	-4,648	-4,741	-4,836	-4,932	-5,031	-5,132	-5,234	-5,339	-5,446	-5,555	-5,666
Retire TY GR3 CR and GH3	-15	0	0	0	0	-652	-1,331	-1,358	-1,385	-1,412	-1,441	-1,469	-1,499	-1,529	-1,559	-1,591	-1,622	-1,655	-1,688	-1,722	-1,756	-1,791	-1,827	-1,864
Retire TY GR3 CR and GH1	-17	0	0	0	-1,298	-1,319	-1,345	-1,372	-1,400	-1,428	-1,456	-1,485	-1,515	-1,545	-1,576	-1,608	-1,640	-1,673	-1,706	-1,740	-1,775	-1,811	-1,847	-1,884
Retire TY GR and CR	-56	0	0	0	0	0	-5,022	-5,122	-5,224	-5,329	-5,435	-5,544	-5,655	-5,768	-5,884	-6,001	-6,121	-6,244	-6,369	-6,496	-6,626	-6,758	-6,894	-7,031
Retire TY GR CR and MC4	-19	0	0	0	-746	-1,554	-1,585	-1,617	-1,650	-1,683	-1,716	-1,750	-1,785	-1,821	-1,858	-1,895	-1,933	-1,971	-2,011	-2,051	-2,092	-2,134	-2,176	-2,220
Retire TY GR CR and TC1	-12	0	0	0	0	-494	-1,007	-1,027	-1,048	-1,069	-1,090	-1,112	-1,134	-1,157	-1,180	-1,204	-1,228	-1,252	-1,277	-1,303	-1,329	-1,356	-1,383	-1,410
Retire TY GR CR and GH4	-15	0	0	0	0	-632	-1,289	-1,315	-1,341	-1,368	-1,395	-1,423	-1,452	-1,481	-1,510	-1,540	-1,571	-1,603	-1,635	-1,667	-1,701	-1,735	-1,770	-1,805
Retire TY GR CR and MC3	-16	0	0	-24	-37	-684	-1,358	-1,385	-1,413	-1,441	-1,470	-1,499	-1,529	-1,560	-1,591	-1,623	-1,655	-1,688	-1,722	-1,756	-1,791	-1,827	-1,864	-1,901
Retire TY GR CR and GH2	-21	0	-8	-99	-878	-1,689	-1,723	-1,757	-1,792	-1,828	-1,865	-1,902	-1,940	-1,979	-2,019	-2,059	-2,100	-2,142	-2,185	-2,229	-2,273	-2,319	-2,365	-2,412
Retire TY GR CR and MC1-2	-37	0	0	0	0	-2,860	-2,986	-3,084	-3,185	-3,288	-3,393	-3,500	-3,570	-3,641	-3,714	-3,788	-3,864	-3,941	-4,020	-4,100	-4,182	-4,266	-4,351	-4,438
Retire TY GR CR BR1-2 and MC1-2	-58	0	0	0	-1,526	-4,474	-4,632	-4,764	-4,898	-5,035	-5,175	-5,317	-5,423	-5,532	-5,643	-5,755	-5,871	-5,988	-6,108	-6,230	-6,354	-6,482	-6,611	-6,743
Total Revenue Requirements																								
No Retirements	52,142	1,140,009	1,293,389	1,480,192	1,769,931	2,013,107	2,246,017	2,255,315	2,993,943	3,224,320	3,445,634	3,696,528	4,020,123	4,310,554	4,522,987	4,777,378	5,094,038	5,367,358	5,754,117	6,155,051	6,459,596	6,707,703	7,083,166	7,444,416
Retire TY	52,084	1,140,009	1,292,066	1,481,235	1,796,678	2,042,305	2,234,104	2,237,695	2,976,566	3,208,717	3,431,954	3,686,844	4,013,228	4,308,691	4,512,375	4,763,930	5,084,833	5,357,619	5,747,210	6,150,528	6,449,576	6,694,968	7,072,405	7,435,023
Retire TY and GR3	51,982	1,140,009	1,290,743	1,475,684	1,776,305	2,011,786	2,193,228	2,202,643	2,977,642	3,256,797	3,474,161	3,702,555	3,975,766	4,251,348	4,544,906	4,808,414	5,101,767	5,366,589	5,696,029	6,085,711	6,474,986	6,734,911	7,089,564	7,438,654
Retire TY GR3 and BR3	51,938	1,140,009	1,290,539	1,474,233	1,777,660	2,011,743	2,215,305	2,231,614	3,008,656	3,306,513	3,507,938	3,724,984	3,980,507	4,212,058	4,485,160	4,813,996	5,108,337	5,358,843	5,733,300	6,127,986	6,420,267	6,671,472	7,041,075	7,390,823
Retire TY GR3 and CR4	51,585	1,138,687	1,282,572	1,451,000	1,729,473	1,966,664	2,155,419	2,191,950	2,969,190	3,213,675	3,419,267	3,663,107	3,980,095	4,267,053	4,488,122	4,747,713	5,054,866	5,326,856	5,706,363	6,102,897	6,405,815	6,676,415	7,046,286	7,398,929
Retire TY GR3 CR4 and CR6	51,194	1,136,255	1,270,821	1,418,516	1,681,324	1,931,791	2,130,469	2,144,901	2,925,370	3,227,393	3,429,239	3,648,927	3,909,492	4,144,518	4,418,596	4,754,391	5,077,136	5,303,655	5,677,449	6,074,016	6,370,163	6,642,643	7,010,921	7,379,713
Retire TY GR3 CR4 CR6 and BR1-2	51,035	1,135,766	1,264,315	1,402,911	1,648,316	1,900,419	2,175,699	2,234,506	2,954,030	3,163,567	3,378,697	3,619,677	3,933,826	4,224,489	4,442,351	4,705,148	5,002,079	5,269,146	5,596,208	5,991,027	6,379,665	6,627,269	6,985,292	7,351,017
Retire TY GR3 and CR	50,805	1,134,929	1,262,057	1,392,104	1,631,097	1,883,431	2,102,817	2,155,755	2,941,530	3,172,618	3,365,521	3,596,269	3,868,225	4,153,467	4,454,269	4,712,140	4,998,964	5,266,108	5,590,260	5,980,030	6,378,423	6,641,950	7,001,021	7,363,207
Retire TY GR3 CR and GH3	50,868	1,134,814	1,261,491	1,390,742	1,649,188	1,916,657	2,187,663	2,172,578	2,926,961	3,219,694	3,410,682	3,625,878	3,878,457	4,115,563	4,389,612	4,721,780	5,034,488	5,258,669	5,626,356	6,018,277	6,321,946	6,591,209	6,953,417	7,314,396
Retire TY GR3 CR and GH1	50,786	1,134,742	1,257,163	1,378,704	1,628,356	1,898,459	2,183,025	2,216,326	2,963,319	3,193,811	3,393,555	3,613,547	3,869,017	4,109,087	4,398,644	4,745,347	5,048,368	5,264,724	5,570,278	5,902,237	6,225,090	6,589,421	7,036,551	7,360,622
Retire TY GR and CR	50,653	1,134,929	1,260,172	1,386,194	1,616,218	1,873,177	2,133,478	2,190,667	2,914,449	3,123,404	3,338,856	3,580,099	3,892,485	4,184,944	4,404,369	4,671,150	4,966,034	5,234,142	5,562,097	5,954,452	6,361,996	6,610,873	6,967,455	7,332,576
Retire TY GR CR and MC4	50,650	1,134,067	1,247,461	1,364,712	1,615,049	1,875,440	2,181,569	2,161,876	2,871,746	3,142,623	3,406,052	3,621,864	3,864,299	4,139,995	4,426,034	4,681,786	4,968,846	5,248,050	5,620,573	6,022,703	6,296,879	6,574,071	6,938,548	7,304,521
Retire TY GR CR and TC1	50,928	1,134,929	1,260,172	1,387,781	1,640,011	1,911,708	2,190,205	2,170,238	2,937,851	3,234,835	3,421,882	3,634,202	3,889,402	4,128,552	4,424,793	4,768,508	5,077,115	5,287,251	5,597,210	5,923,186	6,246,994	6,606,321	7,054,236	7,375,493
Retire TY GR CR and GH4	50,903	1,134,806	1,259,644	1,387,568	1,646,666	1,928,285	2,218,123	2,188,527	2,897,989	3,167,864	3,429,370	3,641,757	3,882,814	4,155,564	4,441,698	4,691,318	4,982,724	5,256,003	5,630,901	6,025,983	6,316,087	6,575,433	6,940,828	7,305,549
Retire TY GR CR and MC3	50,725	1,134,929	1,258,792	1,378,292	1,623,902	1,891,048	2,162,337	2,153,507	2,913,832	3,202,136	3,398,827	3,614,594	3,870,265	4,108,599	4,405,313	4,753,056	5,053,808	5,271,700	5,581,139	5,911,358	6,235,688	6,596,008	7,047,326	7,367,398
Retire TY GR CR and GH2	50,918	1,134,917	1,256,526	1,381,527	1,636,262	1,910,658	2,217,512	2,195,141	2,907,495	3,167,044	3,438,462	3,648,596	3,892,991	4,163,758	4,452,354	4,697,345	4,984,159	5,262,190	5,637,731	6,035,006	6,316,068	6,579,774	6,943,752	7,306,584
Retire TY GR CR and MC1-2	50,512	1,134,929	1,252,965	1,366,474	1,610,968	1,843,912	2,187,786	2,145,942	2,897,019	3,188,401	3,379,767	3,597,691	3,848,705	4,091,248	4,374,035	4,703,821	5,005,878	5,229,828	5,553,704	5,945,226	6,336,854	6,575,156	6,931,514	7,291,034
Retire TY GR CR BR1-2 and MC1-2	50,484	1,134,439	1,246,459	1,350,869	1,578,175	1,807,265	2,280,920	2,205,219	2,963,400	3,163,622	3,340,792	3,571,419	3,837,994	4,133,818	4,453,180	4,678,360	4,957,520	5,219,326	5,540,247	5,931,802	6,318,024	6,553,813	6,912,165	7,268,736
Total Revenue Requirements Delta																								
No Retirements																								
Retire TY	-59	0	-1,323	1,043	26,747	29,198	-11,914	-17,620	-17,377	-15,602	-13,681	-9,684	-6,895	-1,862	-10,612	-13,448	-9,205	-9,738	-6,907	-4,524	-10,020	-12,735	-10,761	-9,393
Retire TY and GR3	-102	0	-1,323	-5,551	-20,373	-30,519	-40,876	-35,051	1,076	48,079	42,208	15,711	-37,461	-57,344	32,531	44,484	16,933	8,970	-51,181	-64,817	25,410	39,942	17,158	3,631
Retire TY GR3 and BR3	-44	0	-204	-1,451	1,355	-43	22,077	28,971	31,014	49,716	33,777	22,429	4,741	-39,289	-59,746	5,583	6,570	-7,746	37,271	42,275	-54,719	-63,438	-48,489	-47,832
Retire TY GR3 and CR4	-396	-1,322	-8,171	-24,685	-46,832	-45,122	-37,809	-10,694	-8,452	-43,122	-54,894	-39,448	4,328	15,705	-56,784	-60,701	-46,900	-39,733	10,334	17,186	-69,171	-58,496	-43,278	-39,725
Retire TY GR3 CR4 and CR6	-392	-2,432	-11,751	-32,484	-48,149	-34,873	-24,950	-47,049	-43,821	13,718	9,972	-14,181	-70,603	-122,535	-69,526	6,678	22,270	-23,201	-28,913	-28,882	-35,652	-33,772	-35,365	-19,216
Retire TY GR3 CR4 CR6 and BR1-2	-159	-489	-6,506	-15,605	-33,009	-31,372	45,230	89,605	28,661	-63,826	-50,542	-29,250	24,334	79,971	23,755	-49,243	-75,057	-34,510	-81,241	-82,988	9,502	-15,374	-25,628	-28,696
Retire TY GR3 and CR	-389	-1,326	-8,764	-26,412	-50,227	-48,360	-27,652	10,855	16,160	-54,775	-63,718	-52,658	-41,267	8,949	35,673	-42,252	-78,172	-37,548	-87,189	-93,986	8,261	-694	-9,900	-16,507
Retire TY GR3 CR and GH3	63	-114	-565	-1,362	18,091	33,225	84,846	16,823	-14,569	47,076	45,160	29,610	10,232	-37,904	-64,657	9,640	35,524	-7,439	36,096	38,248	-56,478	-50,741	-47,604	-48,811
Retire TY GR3 CR and GH1	-18	-187	-4,894	-13,400	-2,741	15,028	80,208	60,571	21,789	21,193	28,034	17,278	792	-44,379	-55,624	33,207	49,404	-1,383	-19,982	-77,792	-153,333	-52,529	35,530	-2,585
Retire TY GR and CR	-152	0	-1,885	-5,910	-14,879	-10,254	30,661	34,911	-27,080	-49,214	-26,665	-16,169	24,260	31,477	-49,900	-40,990	-32,930	-31,966	-28,163	-25,577	-16,427	-31,077	-33,566	-30,631
Retire TY GR CR and MC4	-3	-862	-12,710	-21,483	-1,168	2,263	48,091	-28,791	-42,703	19,219	67,196	41,764	-28,186	-44,949	21,665	10,637	2,812	13,907	58,476	68,251	-65,117	-36,802	-28,907	-28,055
Retire TY GR CR and TC1	275	0	0	1,587	23,794	38,531	56,727	-20,429	23,401	111,431	83,025	54,103	-3,083	-56,392	20,424	97,358	111,081	53,109	35,112	-31,266	-115,002	-4,552	86,781	42,918
Retire TY GR CR and GH4	251	-122	-527	1,374	30,448	55,108	84,646	-2,140	-16,460	44,460	90,513	61,658	-9,671	-29,380	37,329	20,169	16,689	21,860	68,804	71,530	-45,909	-35,440	-26,627	-27,027
Retire TY GR CR and MC3	72	0	-1,380	-7,902	7,684	17,871	28,859	-37,160	-618	78,732	59,971	34,495	-22,221	-76,345	944	81,907	87,773	37,558	19,041	-43,094	-126,308	-14,865	79,872	34,822
Retire TY GR CR and GH2	266	-11	-3,645	-4,667	20,044	37,481	84,034	4,475	-6,955	43,640	99,605	68,497	506	-21,186	47,985	26,196	18,125	28,048	75,633	80,554	-45,928	-31,099	-23,702	-25,991
Retire TY GR CR and MC1-2	-140	0	-7,206	-19,720	-5,250	-29,265	54,308	-44,725	-17,430	64,997	40,910	17,592	-43,780	-93,696	-30,334	32,671	39,844	-4,314	-8,394	-9,226	-25,142	-35,716	-35,940	-41,542
Retire TY GR CR BR1-2 and MC1-2	-168	-489	-13,712	-35,325	-38,043	-65,912	147,442	14,552	48,951	40,218	1,935	-8,680	-54,491	-51,126	48,811	7,210	-8,515	-14,816	-21,851	-22,650	-43,972	-57,060	-55,290	-63,840
Total Revenue Requirements Cumulative Delta																								
No Retirements																								
Retire TY		0	-1,323	-280	26,467	55,665	43,751	26,131	8,755	-6,848	-20,528	-30,213	-37,108	-38,970	-49,582	-63,030	-72,235	-81,973	-88,881	-93,404	-103,425	-116,160	-126,920	-136,313
Retire TY and GR3		0	-1,323	-6,874	-27,247	-57,766	-98,642	-133,693	-132,617	-84,538	-42,330	-26,618	-64,080	-121,424	-88,892	-44,408	-27,475	-18,505	-69,687	-134,504	-109,094	-69,151	-51,993	-48,362
Retire TY GR3 and BR3		0	-204	-1,655	-301	-344	21,734	50,705	81,718	131,434	165,211	187,640	192,381	153,091	93,345	98,928	105,498	97,752	135,023	177,298	122,579	59,141	10,652	-37,179
Retire TY GR3 and CR4		-1,322	-9,493	-34,178	-81,010	-126,132	-163,941	-174,634	-183,086	-226,208	-281,102	-320,550	-316,222	-300,516	-357,301	-418,001	-464,902	-504,634	-494,300	-477,114	-546,285	-604,780	-648,058	-687,783

AESC Gas Prices (Nominal $) and Mid CO2 Prices

Discount Rate: 6.71%

	$M NPVRR	$000 2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Retire TY GR3 CR4 and CR6		-2,432	-14,184	-46,667	-94,816	-129,689	-154,638	-201,687	-245,508	-231,790	-221,818	-235,999	-306,601
Retire TY GR3 CR4 CR6 and BR1-2		-489	-6,995	-22,601	-55,609	-86,982	-41,752	47,853	76,514	12,688	-37,854	-67,104	-42,770
Retire TY GR3 and CR		-1,326	-10,090	-36,502	-86,729	-135,089	-162,741	-151,887	-135,726	-190,501	-254,219	-306,877	-348,144
Retire TY GR3 CR and GH3		-114	-680	-2,042	16,050	49,275	134,121	150,944	136,374	183,451	228,611	258,220	268,453
Retire TY GR3 CR and GH1		-187	-5,080	-18,481	-21,222	-6,195	74,013	134,584	156,373	177,566	205,600	222,878	223,670
Retire TY GR and CR		0	-1,885	-7,795	-22,675	-32,929	-2,268	32,643	5,563	-43,651	-70,316	-86,486	-62,225
Retire TY GR CR and MC4		-862	-13,572	-35,054	-36,223	-33,960	14,131	-14,660	-57,363	-38,144	29,052	70,817	42,630
Retire TY GR CR and TC1		0	0	1,587	25,381	63,912	120,639	100,210	123,611	235,042	318,068	372,171	369,088
Retire TY GR CR and GH4		-122	-649	725	31,172	86,281	170,926	168,787	152,327	196,786	287,300	348,958	339,287
Retire TY GR CR and MC3		0	-1,380	-9,281	-1,598	16,273	45,133	7,973	7,355	86,087	146,058	180,553	158,332
Retire TY GR CR and GH2		-11	-3,657	-8,324	11,720	49,201	133,235	137,710	130,755	174,395	274,000	342,497	343,003
Retire TY GR CR and MC1-2		0	-7,206	-26,926	-32,176	-61,441	-7,133	-51,857	-69,287	-4,291	36,620	54,211	10,431
Retire TY GR CR BR1-2 and MC1-2		-489	-14,202	-49,527	-87,570	-153,482	-6,040	8,512	57,463	97,680	99,616	90,935	36,444

	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Retire TY GR3 CR4 and CR6	-429,136	-498,662	-491,984	-469,714	-492,915	-521,828	-550,710	-586,362	-620,134	-655,498	-674,715
Retire TY GR3 CR4 CR6 and BR1-2	37,201	60,956	11,713	-63,345	-97,854	-179,095	-262,084	-252,581	-267,956	-293,584	-322,280
Retire TY GR3 and CR	-339,195	-303,522	-345,774	-423,946	-461,494	-548,683	-642,669	-634,408	-635,102	-645,002	-661,508
Retire TY GR3 CR and GH3	230,549	165,892	175,532	211,056	203,617	239,713	277,961	221,483	170,742	123,139	74,328
Retire TY GR3 CR and GH1	179,291	123,666	156,874	206,277	204,894	184,912	107,120	-46,214	-98,743	-63,213	-65,797
Retire TY GR and CR	-30,749	-80,648	-121,638	-154,568	-186,533	-214,696	-240,274	-256,701	-287,778	-321,345	-351,975
Retire TY GR CR and MC4	-2,318	19,347	29,983	32,795	46,703	105,178	173,429	108,312	71,510	42,603	14,549
Retire TY GR CR and TC1	312,696	333,120	430,478	541,559	594,668	629,780	598,515	483,512	478,961	565,742	608,660
Retire TY GR CR and GH4	309,907	347,236	367,405	384,094	405,954	474,759	546,289	500,379	464,939	438,312	411,286
Retire TY GR CR and MC3	81,987	82,931	164,837	252,611	290,169	309,210	266,116	139,807	124,942	204,814	239,636
Retire TY GR CR and GH2	321,817	369,802	395,998	414,123	442,170	517,804	598,358	552,430	521,331	497,629	471,637
Retire TY GR CR and MC1-2	-83,264	-113,598	-80,927	-41,083	-45,397	-53,791	-63,017	-88,159	-123,876	-159,816	-201,358
Retire TY GR CR BR1-2 and MC1-2	-14,681	34,129	41,339	32,824	18,009	-3,842	-26,493	-70,464	-127,524	-182,814	-246,654

Discount Rate:

	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058
New Unit Capital and Production Cost																									
No Retirements	7,067,716	7,505,678	8,016,604	8,543,733	8,984,590	9,382,535	9,902,161																		
Retire TY	7,081,071	7,573,185	8,087,716	8,476,642	8,913,175	9,369,024	9,890,402																		
Retire TY and GR3	7,067,309	7,467,266	7,920,048	8,401,896	8,968,934	9,509,607	9,989,758																		
Retire TY GR3 and BR3	7,067,936	7,531,655	8,047,679	8,428,544	8,867,017	9,317,609	9,810,307																		
Retire TY GR3 and CR4	7,068,856	7,535,110	8,055,002	8,437,504	8,877,140	9,331,597	9,848,524																		
Retire TY GR3 CR4 and CR6	7,072,597	7,533,716	8,049,841	8,436,469	8,876,754	9,328,933	9,836,970																		
Retire TY GR3 CR4 CR6 and BR1-2	7,079,619	7,539,018	8,052,004	8,436,767	8,877,542	9,327,784	9,832,584																		
Retire TY GR3 and CR	7,068,875	7,464,315	7,911,736	8,385,458	8,912,423	9,436,590	9,918,186																		
Retire TY GR3 CR and GH3	7,093,880	7,550,566	8,060,704	8,446,975	8,889,287	9,336,412	9,835,095																		
Retire TY GR3 CR and GH1	7,113,561	7,500,816	7,927,049	8,371,811	8,917,248	9,458,056	9,916,219																		
Retire TY GR and CR	7,075,283	7,534,754	8,045,690	8,434,284	8,875,380	9,325,838	9,830,638																		
Retire TY GR CR and MC4	7,110,031	7,536,517	7,987,987	8,433,898	8,977,896	9,527,004	9,989,657																		
Retire TY GR CR and TC1	7,126,347	7,513,375	7,939,964	8,385,565	8,932,525	9,474,027	9,933,608																		
Retire TY GR CR and GH4	7,112,614	7,539,243	7,990,706	8,435,956	8,989,570	9,532,163	9,992,309																		
Retire TY GR CR and MC3	7,124,528	7,510,144	7,937,791	8,382,468	8,929,332	9,470,073	9,931,069																		
Retire TY GR CR and GH2	7,117,017	7,544,284	7,996,572	8,438,888	8,994,273	9,535,453	9,986,652																		
Retire TY GR CR and MC1-2	7,125,892	7,580,747	8,086,624	8,472,943	8,914,568	9,359,857	9,857,948																		
Retire TY GR CR BR1-2 and MC1-2	7,130,487	7,523,375	7,969,924	8,445,416	8,975,266	9,513,478	9,967,214																		
Production Cost																									
No Retirements	6,763,211	7,185,941	7,635,094	8,104,027	8,509,409	8,908,784	9,447,094																		
Retire TY	6,770,808	7,195,540	7,645,432	7,995,540	8,435,206	8,910,973	9,450,243																		
Retire TY and GR3	6,720,925	7,135,024	7,592,332	8,058,445	8,561,036	9,041,020	9,482,940																		
Retire TY GR3 and BR3	6,711,116	7,127,423	7,590,255	7,935,709	8,376,228	8,847,138	9,359,603																		
Retire TY GR3 and CR4	6,733,920	7,151,686	7,618,559	7,965,825	8,407,680	8,881,249	9,415,357																		
Retire TY GR3 CR4 and CR6	6,715,777	7,129,484	7,592,417	7,943,634	8,385,965	8,858,462	9,386,266																		
Retire TY GR3 CR4 CR6 and BR1-2	6,705,777	7,118,040	7,579,153	7,929,643	8,373,600	8,843,917	9,366,862																		
Retire TY GR3 and CR	6,693,388	7,102,896	7,555,683	8,017,046	8,498,176	8,981,532	9,439,599																		
Retire TY GR3 CR and GH3	6,696,384	7,106,788	7,564,864	7,916,855	8,362,343	8,830,916	9,350,497																		
Retire TY GR3 CR and GH1	6,668,016	7,071,845	7,514,154	7,965,154	8,460,072	8,945,482	9,367,396																		
Retire TY GR and CR	6,701,441	7,113,776	7,572,839	7,927,160	8,371,438	8,841,971	9,364,916																		
Retire TY GR CR and MC4	6,718,102	7,133,664	7,569,941	8,005,830	8,496,186	8,991,466	9,418,203																		
Retire TY GR CR and TC1	6,676,216	7,081,110	7,523,816	7,975,697	8,472,180	8,958,325	9,381,700																		
Retire TY GR CR and GH4	6,720,685	7,136,390	7,572,660	8,007,888	8,507,860	8,996,625	9,420,855																		
Retire TY GR CR and MC3	6,674,397	7,077,879	7,521,643	7,972,600	8,468,987	8,954,371	9,379,161																		
Retire TY GR CR and GH2	6,725,088	7,141,431	7,578,526	8,010,820	8,512,563	8,999,915	9,415,198																		
Retire TY GR CR and MC1-2	6,703,654	7,113,170	7,567,721	7,920,314	8,365,668	8,832,959	9,352,501																		
Retire TY GR CR BR1-2 and MC1-2	6,699,252	7,107,758	7,561,222	8,023,366	8,491,157	8,971,068	9,388,961																		
Production Cost Delta																									
No Retirements																									
Retire TY	7,597	9,598	10,338	-108,486	-74,203	2,189	3,149																		
Retire TY and GR3	-49,883	-60,516	-53,100	62,904	125,830	130,047	32,697																		
Retire TY GR3 and BR3	-9,809	-7,601	-2,078	-122,735	-184,808	-193,882	-123,337																		
Retire TY GR3 and CR4	12,995	16,662	26,227	-92,620	-153,356	-159,771	-67,583																		
Retire TY GR3 CR4 and CR6	-18,143	-22,202	-26,142	-22,190	-21,715	-22,787	-29,092																		
Retire TY GR3 CR4 CR6 and BR1-2	-10,000	-11,444	-13,264	-13,992	-12,365	-14,545	-19,404																		
Retire TY GR3 and CR	-22,390	-26,588	-36,734	73,411	112,211	123,071	53,333																		
Retire TY GR3 CR and GH3	2,996	3,891	9,181	-100,191	-135,832	-150,616	-89,102																		
Retire TY GR3 CR and GH1	-25,372	-31,051	-41,529	-51,892	-38,104	-36,050	-72,202																		
Retire TY GR and CR	8,053	10,880	17,156	-89,886	-126,738	-139,561	-74,683																		
Retire TY GR CR and MC4	16,661	19,888	-2,897	78,671	124,748	149,495	53,287																		
Retire TY GR CR and TC1	-25,225	-32,666	-49,022	48,538	100,742	116,354	16,784																		
Retire TY GR CR and GH4	19,244	22,614	-178	80,729	136,422	154,654	55,939																		
Retire TY GR CR and MC3	-27,044	-35,897	-51,195	45,441	97,549	112,400	14,245																		
Retire TY GR CR and GH2	23,647	27,655	5,688	83,661	141,125	157,944	50,282																		
Retire TY GR CR and MC1-2	2,213	-606	-5,118	-6,846	-5,770	-9,012	-12,415																		
Retire TY GR CR BR1-2 and MC1-2	-2,189	-6,018	-11,617	96,206	119,719	129,097	24,046																		
New Unit Capital																									
No Retirements	304,505	319,737	381,510	439,707	475,181	473,751	455,067																		
Retire TY	310,263	377,646	442,284	481,102	477,969	458,051	440,159																		
Retire TY and GR3	346,384	332,242	327,716	343,451	407,898	468,587	506,818																		
Retire TY GR3 and BR3	356,820	404,232	457,425	492,835	490,789	470,471	450,704																		
Retire TY GR3 and CR4	334,936	383,424	436,443	471,679	469,460	450,348	433,167																		
Retire TY GR3 CR4 and CR6	356,820	404,232	457,425	492,835	490,789	470,471	450,704																		
Retire TY GR3 CR4 CR6 and BR1-2	373,842	420,978	472,851	507,124	503,942	483,867	465,722																		
Retire TY GR3 and CR	375,487	361,419	356,053	368,412	414,247	455,058	478,587																		
Retire TY GR3 CR and GH3	397,497	443,778	495,840	530,120	526,944	505,496	484,598																		
Retire TY GR3 CR and GH1	445,545	428,971	412,895	406,657	457,176	512,574	548,823																		
Retire TY GR and CR	373,842	420,978	472,851	507,124	503,942	483,867	465,722																		
Retire TY GR CR and MC4	391,929	402,853	418,046	428,068	481,710	535,538	571,455																		
Retire TY GR CR and TC1	450,131	432,265	416,148	409,868	460,345	515,702	551,909																		
Retire TY GR CR and GH4	391,929	402,853	418,046	428,068	481,710	535,538	571,454																		
Retire TY GR CR and MC3	450,131	432,265	416,148	409,868	460,345	515,702	551,908																		

Discount Rate:

	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058
Retire TY GR CR and GH2	391,929	402,853	418,046	428,068	481,710	535,538	571,454																		
Retire TY GR CR and MC1-2	422,238	467,577	518,903	552,629	548,900	526,898	505,447																		
Retire TY GR CR BR1-2 and MC1-2	431,235	415,617	408,702	422,050	484,109	542,410	578,253																		
New Unit Capital Delta																									
No Retirements																									
Retire TY	5,759	57,909	60,774	41,395	2,788	-15,700	-14,908																		
Retire TY and GR3	36,121	-45,403	-114,568	-137,650	-70,071	10,536	66,659																		
Retire TY GR3 and BR3	10,436	71,990	129,709	149,383	82,891	1,884	-56,114																		
Retire TY GR3 and CR4	-11,448	51,182	108,728	128,228	61,562	-18,239	-73,652																		
Retire TY GR3 CR4 and CR6	21,884	20,808	20,981	21,155	21,329	20,123	17,538																		
Retire TY GR3 CR4 CR6 and BR1-2	17,022	16,746	15,427	14,290	13,153	13,396	15,018																		
Retire TY GR3 and CR	18,668	-42,813	-101,371	-124,422	-76,542	-15,414	27,883																		
Retire TY GR3 CR and GH3	22,009	82,360	139,787	161,708	112,697	50,438	6,011																		
Retire TY GR3 CR and GH1	70,058	67,552	56,842	38,245	42,929	57,516	70,235																		
Retire TY GR and CR	-1,645	59,559	116,798	138,712	89,695	28,809	-12,865																		
Retire TY GR CR and MC4	18,087	-18,125	-54,806	-79,057	-22,232	51,671	105,732																		
Retire TY GR CR and TC1	76,289	11,287	-56,704	-97,257	-43,597	31,835	86,186																		
Retire TY GR CR and GH4	18,087	-18,125	-54,806	-79,057	-22,232	51,671	105,732																		
Retire TY GR CR and MC3	76,289	11,287	-56,704	-97,257	-43,597	31,835	86,186																		
Retire TY GR CR and GH2	18,087	-18,125	-54,806	-79,057	-22,232	51,671	105,732																		
Retire TY GR CR and MC1-2	48,396	46,599	46,052	45,505	44,958	43,031	39,725																		
Retire TY GR CR BR1-2 and MC1-2	57,393	-5,361	-64,149	-85,074	-19,833	58,543	112,531																		
New Controls Capital																									
No Retirements	141,026	135,277	119,424	109,283	101,867	88,953	74,209	52,894	45,452	42,906	37,390	35,540	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY	138,662	132,998	117,231	107,176	99,846	87,017	72,358	51,130	43,773	41,312	35,882	34,117	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY and GR3	136,297	130,720	115,038	105,069	97,824	85,081	70,508	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 and BR3	129,594	124,219	108,740	98,973	91,931	79,391	65,021	44,080	37,012	34,840	29,698	28,222	28,342	24,730	20,598	18,334	17,123	16,121	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 and CR4	136,297	130,720	115,038	105,069	97,824	85,081	70,508	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 CR4 and CR6	136,297	130,720	115,038	105,069	97,824	85,081	70,508	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 CR4 CR6 and BR1-2	123,868	118,712	103,452	93,904	87,082	74,760	60,609	39,888	33,038	31,085	26,162	24,905	25,245	24,162	23,079	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 and CR	136,297	130,720	115,038	105,069	97,824	85,081	70,508	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 CR and GH3	124,848	119,595	104,237	94,591	87,670	75,250	61,001	40,181	33,234	31,183	26,162	24,807	25,048	21,556	17,546	15,403	14,313	11,613	5,135	4,897	4,659	4,421	4,000	3,489	253
Retire TY GR3 CR and GH1	127,713	122,527	107,236	97,657	90,804	78,451	67,816	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR and CR	133,122	127,707	112,188	102,381	97,824	85,081	70,508	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and MC4	112,041	107,564	92,984	84,115	80,616	68,889	56,377	48,351	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and TC1	126,129	120,988	105,743	96,210	91,927	79,458	65,159	44,290	37,293	35,533	34,114	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and GH4	122,452	117,356	102,155	92,667	88,428	76,004	61,749	40,925	33,972	31,916	26,890	25,529	25,766	22,269	18,253	16,105	15,341	12,691	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and MC3	120,481	115,617	100,648	91,392	87,386	75,594	61,960	44,459	41,752	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and GH2	123,707	118,530	103,249	93,680	89,361	76,855	62,520	41,615	34,581	32,444	27,338	25,896	26,052	22,474	18,376	16,149	14,973	12,154	5,232	4,152	214	0	0	0	0
Retire TY GR CR and MC1-2	97,600	94,027	90,455	86,883	83,190	79,138	70,508	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR BR1-2 and MC1-2	85,170	82,020	78,869	75,718	72,447	68,818	60,609	39,888	33,038	31,085	26,162	24,905	25,245	24,162	23,079	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
New Controls Capital Delta																									
No Retirements																									
Retire TY	-2,364	-2,279	-2,193	-2,107	-2,022	-1,936	-1,850	-1,765	-1,679	-1,594	-1,508	-1,422	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and GR3	-2,364	-2,279	-2,193	-2,107	-2,022	-1,936	-1,850	-1,765	-1,679	-1,594	-1,508	-1,422	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and BR3	-6,703	-6,501	-6,298	-6,095	-5,893	-5,690	-5,487	-5,284	-5,082	-4,879	-4,676	-4,474	-4,271	-4,068	-3,865	-3,663	-3,460	-1,405	0	0	0	0	0	0	0
Retire TY GR3 and CR4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 and CR6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 CR6 and BR1-2	-12,429	-12,008	-11,586	-11,164	-10,742	-10,321	-9,899	-9,477	-9,055	-8,634	-8,212	-7,790	-7,369	-4,636	-1,384	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH3	-11,449	-11,125	-10,802	-10,478	-10,154	-9,831	-9,507	-9,183	-8,860	-8,536	-8,212	-7,889	-7,565	-7,241	-6,918	-6,594	-6,270	-5,913	-5,232	-4,152	-214	0	0	0	0
Retire TY GR3 CR and GH1	-8,584	-8,193	-7,802	-7,411	-7,020	-6,629	-2,692	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR	-3,176	-3,013	-2,850	-2,687	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC4	-21,080	-20,142	-19,204	-18,266	-17,208	-16,191	-14,131	-1,014	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and TC1	-6,993	-6,719	-6,445	-6,171	-5,897	-5,623	-5,349	-5,075	-4,801	-4,186	-261	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH4	-10,670	-10,351	-10,033	-9,714	-9,395	-9,077	-8,758	-8,440	-8,121	-7,803	-7,484	-7,166	-6,847	-6,529	-6,210	-5,892	-5,243	-4,835	0	0	0	0	0	0	0
Retire TY GR CR and MC3	-12,641	-12,090	-11,540	-10,989	-10,438	-9,487	-8,547	-4,906	-341	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH2	-9,414	-9,177	-8,939	-8,701	-8,463	-8,226	-7,988	-7,750	-7,512	-7,274	-7,037	-6,799	-6,561	-6,323	-6,086	-5,848	-5,610	-5,372	-5,135	-4,897	-4,659	-4,421	-4,000	-3,489	-253
Retire TY GR CR and MC1-2	-35,522	-33,680	-21,733	-15,499	-14,634	-5,943	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR BR1-2 and MC1-2	-47,952	-45,687	-33,319	-26,663	-25,377	-16,263	-9,899	-9,477	-9,055	-8,634	-8,212	-7,790	-7,369	-4,636	-1,384	0	0	0	0	0	0	0	0	0	0
MTP Capital																									
No Retirements	139,365	145,108	150,899	156,087	161,351	166,658	172,046																		
Retire TY	136,574	142,204	147,882	152,995	158,182	163,409	168,716																		
Retire TY and GR3	135,423	141,005	146,635	151,700	156,839	162,032	167,305																		
Retire TY GR3 and BR3	127,287	132,518	137,793	142,498	147,275	152,102	157,005																		
Retire TY GR3 and CR4	133,190	138,717	144,290	149,295	154,374	159,506	164,715																		
Retire TY GR3 CR4 and CR6	129,732	135,173	140,657	145,572	150,558	155,594	160,706																		
Retire TY GR3 CR4 CR6 and BR1-2	124,491	129,705	134,960	139,644	144,396	149,197	154,070																		
Retire TY GR3 and CR	127,312	132,692	138,115	142,966	147,886	152,856	157,899																		
Retire TY GR3 CR and GH3	112,482	117,220	121,994	126,191	130,449	134,750	139,117																		
Retire TY GR3 CR and GH1	112,636	117,381	122,162	126,365	130,631	134,939	139,312																		
Retire TY GR and CR	125,703	131,017	136,373	141,157	146,010	150,933	155,928																		
Retire TY GR CR and MC4	111,099	115,823	120,587	124,977	129,425	133,934	138,504																		
Retire TY GR CR and TC1	122,417	127,586	132,796	137,432	142,136	146,907	151,749																		

Discount Rate:

	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058
Retire TY GR CR and GH4	110,903	115,577	120,286	124,417	128,609	132,865	137,185																		
Retire TY GR CR and MC3	113,732	118,562	123,433	127,894	132,416	136,999	141,645																		
Retire TY GR CR and GH2	110,749	115,416	120,118	124,242	128,428	132,676	136,989																		
Retire TY GR CR and MC1-2	107,211	111,778	116,384	120,669	125,010	129,408	133,865																		
Retire TY GR CR BR1-2 and MC1-2	101,970	106,310	110,687	114,741	118,848	123,011	127,229																		
MTP Capital Delta																									
No Retirements																									
Retire TY	-2,790	-2,904	-3,017	-3,092	-3,170	-3,249	-3,330																		
Retire TY and GR3	-1,152	-1,199	-1,247	-1,295	-1,343	-1,377	-1,411																		
Retire TY GR3 and BR3	-8,136	-8,488	-8,843	-9,202	-9,564	-9,930	-10,300																		
Retire TY GR3 and CR4	-2,233	-2,289	-2,346	-2,405	-2,465	-2,526	-2,589																		
Retire TY GR3 CR4 and CR6	-3,457	-3,544	-3,632	-3,723	-3,816	-3,912	-4,009																		
Retire TY GR3 CR4 CR6 and BR1-2	-5,241	-5,468	-5,697	-5,928	-6,161	-6,397	-6,635																		
Retire TY GR3 and CR	-2,420	-2,481	-2,543	-2,606	-2,671	-2,738	-2,807																		
Retire TY GR3 CR and GH3	-14,831	-15,472	-16,121	-16,775	-17,437	-18,106	-18,782																		
Retire TY GR3 CR and GH1	-14,676	-15,311	-15,953	-16,601	-17,256	-17,918	-18,587																		
Retire TY GR and CR	-1,609	-1,675	-1,742	-1,809	-1,876	-1,923	-1,971																		
Retire TY GR CR and MC4	-14,604	-15,194	-15,786	-16,180	-16,585	-16,999	-17,424																		
Retire TY GR CR and TC1	-3,286	-3,431	-3,577	-3,725	-3,875	-4,026	-4,180																		
Retire TY GR CR and GH4	-14,800	-15,440	-16,087	-16,741	-17,401	-18,069	-18,743																		
Retire TY GR CR and MC3	-11,971	-12,455	-12,940	-13,263	-13,595	-13,934	-14,283																		
Retire TY GR CR and GH2	-14,954	-15,601	-16,255	-16,915	-17,583	-18,257	-18,939																		
Retire TY GR CR and MC1-2	-18,492	-19,239	-19,988	-20,488	-21,000	-21,525	-22,063																		
Retire TY GR CR BR1-2 and MC1-2	-23,734	-24,707	-25,685	-26,416	-27,162	-27,923	-28,699																		
Landfill Capital																									
No Retirements	115,469	117,869	118,900	120,220	42,001	38,766	37,512																		
Retire TY	115,469	117,869	118,900	120,220	42,001	38,766	37,512																		
Retire TY and GR3	115,469	117,869	118,900	120,220	42,001	38,766	37,512																		
Retire TY GR3 and BR3	113,987	116,506	118,678	120,031	41,844	38,642	37,415																		
Retire TY GR3 and CR4	113,721	116,150	117,208	118,512	40,273	37,019	35,741																		
Retire TY GR3 CR4 and CR6	110,944	113,487	114,588	115,867	37,599	34,314	33,000																		
Retire TY GR3 CR4 CR6 and BR1-2	109,989	112,609	114,445	115,745	37,498	34,234	32,937																		
Retire TY GR3 and CR	109,049	111,624	112,754	114,016	35,727	32,420	31,081																		
Retire TY GR3 CR and GH3	89,473	91,157	91,345	92,095	33,209	30,546	29,362																		
Retire TY GR3 CR and GH1	89,677	91,370	91,568	92,323	33,235	30,566	29,380																		
Retire TY GR and CR	109,049	111,624	112,754	114,016	35,727	32,420	31,081																		
Retire TY GR CR and MC4	109,049	111,624	112,754	114,016	35,727	32,420	31,081																		
Retire TY GR CR and TC1	97,383	100,281	101,723	103,285	25,285	22,258	21,195																		
Retire TY GR CR and GH4	89,514	91,199	91,390	92,141	33,214	30,550	29,366																		
Retire TY GR CR and MC3	109,049	111,624	112,754	114,016	35,727	32,420	31,081																		
Retire TY GR CR and GH2	89,310	90,986	91,167	91,912	33,188	30,531	29,348																		
Retire TY GR CR and MC1-2	109,049	111,624	112,754	114,016	35,727	32,420	31,081																		
Retire TY GR CR BR1-2 and MC1-2	108,094	110,746	112,611	113,894	35,626	32,340	31,018																		
Landfill Capital Delta																									
No Retirements																									
Retire TY	0	0	0	0	0	0	0																		
Retire TY and GR3	0	0	0	0	0	0	0																		
Retire TY GR3 and BR3	-1,482	-1,363	-222	-189	-157	-124	-97																		
Retire TY GR3 and CR4	-1,748	-1,719	-1,692	-1,708	-1,727	-1,747	-1,771																		
Retire TY GR3 CR4 and CR6	-2,777	-2,662	-2,620	-2,645	-2,674	-2,705	-2,742																		
Retire TY GR3 CR4 CR6 and BR1-2	-955	-878	-143	-122	-101	-80	-62																		
Retire TY GR3 and CR	-1,895	-1,864	-1,834	-1,851	-1,872	-1,894	-1,919																		
Retire TY GR3 CR and GH3	-19,576	-20,467	-21,409	-21,921	-2,518	-1,874	-1,718																		
Retire TY GR3 CR and GH1	-19,372	-20,254	-21,186	-21,692	-2,492	-1,854	-1,700																		
Retire TY GR and CR	0	0	0	0	0	0	0																		
Retire TY GR CR and MC4	0	0	0	0	0	0	0																		
Retire TY GR CR and TC1	-11,666	-11,343	-11,031	-10,731	-10,442	-10,162	-9,886																		
Retire TY GR CR and GH4	-19,535	-20,424	-21,364	-21,875	-2,513	-1,870	-1,715																		
Retire TY GR CR and MC3	0	0	0	0	0	0	0																		
Retire TY GR CR and GH2	-19,739	-20,637	-21,587	-22,103	-2,539	-1,889	-1,733																		
Retire TY GR CR and MC1-2	0	0	0	0	0	0	0																		
Retire TY GR CR BR1-2 and MC1-2	-955	-878	-143	-122	-101	-80	-62																		
Water Capital																									
No Retirements	11,399	10,985	10,571	10,157	9,743	9,329	6,496																		
Retire TY	11,062	10,662	10,262	9,862	9,463	9,063	6,245																		
Retire TY and GR3	10,724	10,339	9,953	9,568	9,183	8,797	5,993																		
Retire TY GR3 and BR3	9,365	9,023	8,680	8,338	7,995	7,653	4,892																		
Retire TY GR3 and CR4	10,724	10,339	9,953	9,568	9,183	8,797	5,993																		
Retire TY GR3 CR4 and CR6	10,724	10,339	9,953	9,568	9,183	8,797	5,993																		
Retire TY GR3 CR4 CR6 and BR1-2	9,849	9,491	9,133	8,775	8,418	8,060	5,284																		
Retire TY GR3 and CR	10,724	10,339	9,953	9,568	9,183	8,797	5,993																		
Retire TY GR3 CR and GH3	9,840	9,482	9,124	8,765	8,407	8,049	5,272																		
Retire TY GR3 CR and GH1	9,850	9,491	9,132	8,774	8,415	8,056	5,279																		
Retire TY GR and CR	10,253	9,888	9,522	9,157	8,791	8,426	5,642																		

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Discount Rate:

	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058
Retire TY GR CR and MC4	9,166	8,852	8,537	8,222	7,907	7,592	5,642																		
Retire TY GR CR and TC1	9,787	9,434	9,082	8,729	8,376	8,023	5,252																		
Retire TY GR CR and GH4	9,371	9,033	8,694	8,356	8,017	7,679	4,922																		
Retire TY GR CR and MC3	9,362	9,038	8,714	8,390	8,066	7,742	5,642																		
Retire TY GR CR and GH2	9,362	9,024	8,686	8,347	8,009	7,671	4,915																		
Retire TY GR CR and MC1-2	8,877	8,576	8,274	7,973	7,671	7,370	5,642																		
Retire TY GR CR BR1-2 and MC1-2	8,002	7,728	7,454	7,180	6,906	6,632	4,933																		
Water Capital Delta																									
No Retirements																									
Retire TY	-337	-323	-309	-294	-280	-266	-251																		
Retire TY and GR3	-337	-323	-309	-294	-280	-266	-251																		
Retire TY GR3 and BR3	-1,359	-1,316	-1,273	-1,230	-1,187	-1,144	-1,101																		
Retire TY GR3 and CR4	0	0	0	0	0	0	0																		
Retire TY GR3 CR4 and CR6	0	0	0	0	0	0	0																		
Retire TY GR3 CR4 CR6 and BR1-2	-876	-848	-820	-793	-765	-737	-710																		
Retire TY GR3 and CR	0	0	0	0	0	0	0																		
Retire TY GR3 CR and GH3	-884	-857	-830	-803	-776	-748	-721																		
Retire TY GR3 CR and GH1	-875	-848	-821	-794	-767	-741	-714																		
Retire TY GR and CR	-471	-451	-431	-411	-391	-371	-351																		
Retire TY GR CR and MC4	-1,086	-1,036	-986	-935	-885	-834	0																		
Retire TY GR CR and TC1	-466	-453	-441	-428	-415	-403	-390																		
Retire TY GR CR and GH4	-882	-855	-828	-801	-774	-747	-720																		
Retire TY GR CR and MC3	-891	-849	-808	-766	-725	-684	0																		
Retire TY GR CR and GH2	-891	-864	-837	-809	-782	-755	-727																		
Retire TY GR CR and MC1-2	-1,376	-1,312	-1,248	-1,184	-1,120	-1,056	0																		
Retire TY GR CR BR1-2 and MC1-2	-2,251	-2,160	-2,068	-1,977	-1,885	-1,793	-710																		
Total Capital																									
No Retirements	711,764	728,975	781,304	835,454	790,143	777,456	745,329	52,894	45,452	42,906	37,390	35,540	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY	712,030	781,379	836,559	871,355	787,460	756,305	724,990	51,130	43,773	41,312	35,882	34,117	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY and GR3	744,298	732,175	718,243	730,008	713,744	763,263	788,136	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 and BR3	737,053	786,498	831,316	862,675	779,834	748,259	715,037	44,080	37,012	34,840	29,698	28,222	28,342	24,730	20,598	18,334	17,123	16,121	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 and CR4	728,869	779,349	822,932	854,124	771,114	740,751	710,125	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 CR4 and CR6	744,518	793,951	837,661	868,911	785,952	754,257	720,911	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 CR4 CR6 and BR1-2	742,039	791,495	834,842	865,194	781,336	750,118	718,623	39,888	33,038	31,085	26,162	24,905	25,245	24,162	23,079	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 and CR	758,871	746,793	731,914	740,030	704,867	734,212	744,068	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 CR and GH3	734,140	781,232	822,540	851,761	786,679	754,091	719,350	40,181	33,234	31,183	26,162	24,807	25,048	21,556	17,546	15,403	14,313	11,613	5,135	4,897	4,659	4,421	4,000	3,489	253
Retire TY GR3 CR and GH1	785,421	769,739	742,993	731,776	720,261	764,586	790,611	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR and CR	751,969	801,213	843,688	873,835	792,294	760,727	728,881	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and MC4	733,286	746,716	752,907	759,397	735,385	778,373	803,058	48,351	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and TC1	805,847	790,554	765,491	755,524	728,069	772,348	795,264	44,290	37,293	35,533	34,114	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and GH4	724,170	736,018	740,571	745,648	739,979	782,636	804,677	40,925	33,972	31,916	26,890	25,529	25,766	22,269	18,253	16,105	15,341	12,691	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and MC3	802,756	787,106	761,698	751,560	723,940	768,456	792,237	44,459	41,752	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and GH2	725,058	736,809	741,265	746,249	740,695	783,271	805,227	41,615	34,581	32,444	27,338	25,896	26,052	22,474	18,378	16,149	14,973	12,154	5,232	4,152	214	0	0	0	0
Retire TY GR CR and MC1-2	744,975	793,582	846,771	882,169	800,497	775,234	746,542	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR BR1-2 and MC1-2	734,471	722,420	718,324	733,583	717,936	773,210	802,042	39,888	33,038	31,085	26,162	24,905	25,245	24,162	23,079	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Total Capital Delta																									
No Retirements																									
Retire TY	266	52,404	55,255	35,901	-2,684	-21,151	-20,340	-1,765	-1,679	-1,594	-1,508	-1,422	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and GR3	32,268	-49,204	-118,316	-141,347	-73,716	6,958	63,146	-1,765	-1,679	-1,594	-1,508	-1,422	0	0	- 0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and BR3	-7,245	54,323	113,073	132,667	66,091	-15,004	-73,099	-5,284	-5,082	-4,879	-4,676	-4,474	-4,271	-4,068	-3,865	-3,663	-3,460	-1,405	0	0	0	0	0	0	0
Retire TY GR3 and CR4	-15,429	47,174	104,690	124,115	57,370	-22,512	-78,012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 and CR6	15,649	14,601	14,729	14,787	14,838	13,506	10,787	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 CR6 and BR1-2	-2,479	-2,455	-2,819	-3,717	-4,617	-4,140	-2,289	-9,477	-9,055	-8,634	-8,212	-7,790	-7,369	-4,636	-1,384	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR	14,353	-47,158	-105,748	-128,880	-81,085	-20,045	23,157	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH3	-24,730	34,439	90,626	111,731	81,812	19,879	-24,718	-9,183	-8,860	-8,536	-8,212	-7,889	-7,565	-7,241	-6,918	-6,594	-6,270	-5,913	-5,232	-4,152	-214	0	0	0	0
Retire TY GR3 CR and GH1	26,550	22,946	11,080	-8,254	15,394	30,374	46,542	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR	-6,901	54,420	111,775	133,805	87,427	26,515	-15,187	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC4	-18,684	-54,497	-90,781	-114,439	-56,909	17,646	74,177	-1,014	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and TC1	53,878	-10,658	-78,197	-118,311	-64,225	11,621	66,383	-5,075	-4,801	-4,186	-261	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH4	-27,799	-65,195	-103,117	-128,187	-52,315	21,909	75,796	-8,440	-8,121	-7,803	-7,484	-7,166	-6,847	-6,529	-6,210	-5,892	-5,243	-4,835	0	0	0	0	0	0	0
Retire TY GR CR and MC3	50,787	-14,107	-81,991	-122,275	-68,355	7,729	63,356	-4,906	-341	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH2	-26,912	-64,404	-102,423	-127,586	-51,599	22,544	76,345	-7,750	-7,512	-7,274	-7,037	-6,799	-6,561	-6,323	-6,086	-5,848	-5,610	-5,372	-5,135	-4,897	-4,659	-4,421	-4,000	-3,489	-253
Retire TY GR CR and MC1-2	-6,994	-7,631	3,083	8,334	8,203	14,507	17,661	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR BR1-2 and MC1-2	-17,499	-78,793	-125,364	-140,252	-74,358	12,484	73,161	-9,477	-9,055	-8,634	-8,212	-7,790	-7,369	-4,636	-1,384	0	0	0	0	0	0	0	0	0	0
Retirement O&M Cost																									
No Retirements																									
Retire TY	0	0	0	0	0	0	0																		
Retire TY and GR3	0	0	0	0	0	0	0																		
Retire TY GR3 and BR3	0	0	0	0	0	0	0																		
Retire TY GR3 and CR4	0	0	0	0	0	0	0																		
Retire TY GR3 CR4 and CR6	0	0	0	0	0	0	0																		
Retire TY GR3 CR4 CR6 and BR1-2	0	0	0	0	0	0	0																		
Retire TY GR3 and CR	0	0	0	0	0	0	0																		
Retire TY GR3 CR and GH3	0	0	0	0	0	0	0																		

Discount Rate:

	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058
Retire TY GR3 CR and GH1	0	0	0	0	0	0	0																		
Retire TY GR and CR	0	0	0	0	0	0	0																		
Retire TY GR CR and MC4	0	0	0	0	0	0	0																		
Retire TY GR CR and TC1	0	0	0	0	0	0	0																		
Retire TY GR CR and GH4	0	0	0	0	0	0	0																		
Retire TY GR CR and MC3	0	0	0	0	0	0	0																		
Retire TY GR CR and GH2	0	0	0	0	0	0	0																		
Retire TY GR CR and MC1-2	0	0	0	0	0	0	0																		
Retire TY GR CR BR1-2 and MC1-2	0	0	0	0	0	0	0																		
Retirement O&M Cost Delta																									
No Retirements																									
Retire TY	0	0	0	0	0	0	0																		
Retire TY and GR3	0	0	0	0	0	0	0																		
Retire TY GR3 and BR3	0	0	0	0	0	0	0																		
Retire TY GR3 and CR4	0	0	0	0	0	0	0																		
Retire TY GR3 CR4 and CR6	0	0	0	0	0	0	0																		
Retire TY GR3 CR4 CR6 and BR1-2	0	0	0	0	0	0	0																		
Retire TY GR3 and CR	0	0	0	0	0	0	0																		
Retire TY GR3 CR and GH3	0	0	0	0	0	0	0																		
Retire TY GR3 CR and GH1	0	0	0	0	0	0	0																		
Retire TY GR and CR	0	0	0	0	0	0	0																		
Retire TY GR CR and MC4	0	0	0	0	0	0	0																		
Retire TY GR CR and TC1	0	0	0	0	0	0	0																		
Retire TY GR CR and GH4	0	0	0	0	0	0	0																		
Retire TY GR CR and MC3	0	0	0	0	0	0	0																		
Retire TY GR CR and GH2	0	0	0	0	0	0	0																		
Retire TY GR CR and MC1-2	0	0	0	0	0	0	0																		
Retire TY GR CR BR1-2 and MC1-2	0	0	0	0	0	0	0																		
Existing Unit Fixed O&M																									
No Retirements	318,658	325,031	331,532	338,163	344,926	351,824	358,861																		
Retire TY	318,024	324,385	330,872	337,490	344,240	351,124	358,147																		
Retire TY and GR3	311,416	317,645	323,998	330,478	337,087	343,829	350,705																		
Retire TY GR3 and BR3	288,827	294,604	300,496	306,506	312,636	318,889	325,267																		
Retire TY GR3 and CR4	293,185	299,049	305,030	311,130	317,353	323,700	330,174																		
Retire TY GR3 CR4 and CR6	277,766	283,322	288,988	294,768	300,663	306,677	312,810																		
Retire TY GR3 CR4 CR6 and BR1-2	260,757	265,972	271,292	276,718	282,252	287,897	293,655																		
Retire TY GR3 and CR	258,380	263,547	268,818	274,194	279,678	285,272	290,977																		
Retire TY GR3 CR and GH3	239,472	244,261	249,146	254,129	259,212	264,396	269,684																		
Retire TY GR3 CR and GH1	231,150	235,773	240,488	245,298	250,204	255,208	260,312																		
Retire TY GR and CR	245,295	250,201	255,205	260,309	265,515	270,826	276,242																		
Retire TY GR CR and MC4	219,158	223,541	228,012	232,572	237,223	241,968	246,807																		
Retire TY GR CR and TC1	218,919	223,297	227,763	232,318	236,964	241,704	246,538																		
Retire TY GR CR and GH4	226,948	231,487	236,116	240,839	245,655	250,569	255,580																		
Retire TY GR CR and MC3	219,193	223,577	228,049	232,610	237,262	242,007	246,847																		
Retire TY GR CR and GH2	224,941	229,439	234,028	238,709	243,483	248,353	253,320																		
Retire TY GR CR and MC1-2	203,054	207,115	211,257	215,482	219,792	224,188	228,671																		
Retire TY GR CR BR1-2 and MC1-2	186,045	189,765	193,561	197,432	201,381	205,408	209,516																		
Existing Unit Fixed O&M Delta																									
No Retirements																									
Retire TY	-634	-647	-660	-673	-686	-700	-714																		
Retire TY and GR3	-6,608	-6,740	-6,875	-7,012	-7,153	-7,296	-7,442																		
Retire TY GR3 and BR3	-22,589	-23,041	-23,502	-23,972	-24,451	-24,940	-25,439																		
Retire TY GR3 and CR4	-18,232	-18,596	-18,968	-19,347	-19,734	-20,129	-20,532																		
Retire TY GR3 CR4 and CR6	-15,418	-15,727	-16,041	-16,362	-16,689	-17,023	-17,364																		
Retire TY GR3 CR4 CR6 and BR1-2	-17,009	-17,349	-17,696	-18,050	-18,411	-18,779	-19,155																		
Retire TY GR3 and CR	-19,387	-19,775	-20,170	-20,573	-20,985	-21,405	-21,833																		
Retire TY GR3 CR and GH3	-18,908	-19,286	-19,672	-20,065	-20,466	-20,876	-21,293																		
Retire TY GR3 CR and GH1	-27,230	-27,774	-28,330	-28,897	-29,474	-30,064	-30,665																		
Retire TY GR and CR	-13,084	-13,346	-13,613	-13,885	-14,163	-14,446	-14,735																		
Retire TY GR CR and MC4	-26,138	-26,660	-27,194	-27,737	-28,292	-28,858	-29,435																		
Retire TY GR CR and TC1	-26,377	-26,904	-27,442	-27,991	-28,551	-29,122	-29,704																		
Retire TY GR CR and GH4	-18,347	-18,714	-19,089	-19,470	-19,860	-20,257	-20,662																		
Retire TY GR CR and MC3	-26,102	-26,624	-27,156	-27,699	-28,253	-28,818	-29,395																		
Retire TY GR CR and GH2	-20,355	-20,762	-21,177	-21,600	-22,032	-22,473	-22,923																		
Retire TY GR CR and MC1-2	-42,242	-43,086	-43,948	-44,827	-45,724	-46,638	-47,571																		
Retire TY GR CR BR1-2 and MC1-2	-59,251	-60,436	-61,644	-62,877	-64,135	-65,417	-66,726																		
New Controls Fixed O&M																									
No Retirements	53,296	54,361	55,449	56,558	57,689	58,843	60,019																		
Retire TY	47,726	48,680	49,654	50,647	51,660	52,693	53,747																		
Retire TY and GR3	42,156	42,999	43,859	44,736	45,631	46,543	47,474																		
Retire TY GR3 and BR3	40,600	41,412	42,241	43,085	43,947	44,826	45,723																		
Retire TY GR3 and CR4	36,679	37,412	38,161	38,924	39,702	40,496	41,306																		
Retire TY GR3 CR4 and CR6	29,581	30,172	30,776	31,391	32,019	32,660	33,313																		
Retire TY GR3 CR4 CR6 and BR1-2	27,230	27,774	28,330	28,896	29,474	30,064	30,665																		

Discount Rate:

	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058
Retire TY GR3 and CR	23,802	24,278	24,763	25,259	25,764	26,279	26,805																		
Retire TY GR3 CR and GH3	21,901	22,339	22,786	23,241	23,706	24,180	24,664																		
Retire TY GR3 CR and GH1	21,880	22,318	22,764	23,219	23,684	24,158	24,641																		
Retire TY GR and CR	16,630	16,962	17,301	17,648	18,000	18,360	18,728																		
Retire TY GR CR and MC4	14,365	14,653	14,946	15,244	15,549	15,860	16,178																		
Retire TY GR CR and TC1	15,191	15,495	15,805	16,121	16,443	16,772	17,108																		
Retire TY GR CR and GH4	14,789	15,084	15,386	15,694	16,008	16,328	16,654																		
Retire TY GR CR and MC3	14,691	14,984	15,284	15,590	15,902	16,220	16,544																		
Retire TY GR CR and GH2	14,169	14,452	14,742	15,036	15,337	15,644	15,957																		
Retire TY GR CR and MC1-2	12,103	12,345	12,592	12,843	13,100	13,362	13,630																		
Retire TY GR CR BR1-2 and MC1-2	9,751	9,946	10,145	10,348	10,555	10,766	10,982																		
New Controls Fixed O&M Delta																									
No Retirements																									
Retire TY	-5,570	-5,681	-5,795	-5,911	-6,029	-6,150	-6,273																		
Retire TY and GR3	-5,570	-5,681	-5,795	-5,911	-6,029	-6,150	-6,273																		
Retire TY GR3 and BR3	-1,555	-1,586	-1,618	-1,650	-1,683	-1,717	-1,751																		
Retire TY GR3 and CR4	-5,477	-5,586	-5,698	-5,812	-5,928	-6,047	-6,168																		
Retire TY GR3 CR4 and CR6	-7,098	-7,240	-7,385	-7,532	-7,683	-7,837	-7,994																		
Retire TY GR3 CR4 CR6 and BR1-2	-2,351	-2,398	-2,446	-2,495	-2,545	-2,596	-2,648																		
Retire TY GR3 and CR	-5,779	-5,895	-6,013	-6,133	-6,255	-6,381	-6,508																		
Retire TY GR3 CR and GH3	-1,901	-1,939	-1,978	-2,017	-2,058	-2,099	-2,141																		
Retire TY GR3 CR and GH1	-1,921	-1,960	-1,999	-2,039	-2,080	-2,121	-2,164																		
Retire TY GR and CR	-7,172	-7,315	-7,462	-7,611	-7,763	-7,918	-8,077																		
Retire TY GR CR and MC4	-2,264	-2,310	-2,356	-2,403	-2,451	-2,500	-2,550																		
Retire TY GR CR and TC1	-1,439	-1,467	-1,497	-1,527	-1,557	-1,588	-1,620																		
Retire TY GR CR and GH4	-1,841	-1,878	-1,915	-1,954	-1,993	-2,033	-2,073																		
Retire TY GR CR and MC3	-1,939	-1,978	-2,017	-2,058	-2,099	-2,141	-2,184																		
Retire TY GR CR and GH2	-2,461	-2,510	-2,560	-2,611	-2,663	-2,717	-2,771																		
Retire TY GR CR and MC1-2	-4,527	-4,618	-4,710	-4,804	-4,900	-4,998	-5,098																		
Retire TY GR CR BR1-2 and MC1-2	-6,878	-7,016	-7,156	-7,299	-7,445	-7,594	-7,746																		
Total Revenue Requirements																									
No Retirements	7,846,929	8,294,310	8,803,379	9,334,201	9,702,167	10,096,907	10,611,304	52,894	45,452	42,906	37,390	35,540	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY	7,848,588	8,349,983	8,862,518	9,255,032	9,618,565	10,071,096	10,587,126	51,130	43,773	41,312	35,882	34,117	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY and GR3	7,818,794	8,227,842	8,678,431	9,163,666	9,657,497	10,194,655	10,669,255	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 and BR3	7,777,597	8,249,937	8,764,307	9,147,976	9,512,646	9,959,112	10,445,629	44,080	37,012	34,840	29,698	28,222	28,342	24,730	20,598	18,334	17,123	16,121	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 and CR4	7,792,652	8,267,496	8,784,681	9,170,002	9,535,849	9,986,196	10,496,962	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 CR4 and CR6	7,767,642	8,236,929	8,749,842	9,138,704	9,504,600	9,952,055	10,453,300	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 CR4 CR6 and BR1-2	7,735,803	8,203,282	8,713,616	9,100,450	9,466,662	9,911,996	10,409,805	39,888	33,038	31,085	26,162	24,905	25,245	24,162	23,079	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 and CR	7,734,440	8,137,514	8,581,178	9,056,529	9,508,485	10,027,295	10,501,449	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 CR and GH3	7,691,896	8,154,619	8,659,336	9,045,987	9,431,940	9,873,583	10,364,195	40,181	33,234	31,183	26,162	24,807	25,048	21,556	17,546	15,403	14,313	11,613	5,135	4,897	4,659	4,421	4,000	3,489	253
Retire TY GR3 CR and GH1	7,706,467	8,099,675	8,520,400	8,965,448	9,454,221	9,989,434	10,442,960	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR and CR	7,715,335	8,182,152	8,689,034	9,078,951	9,447,248	9,891,884	10,388,767	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and MC4	7,684,910	8,118,573	8,565,806	9,013,043	9,484,344	10,027,667	10,484,245	48,351	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and TC1	7,716,172	8,110,456	8,532,875	8,979,660	9,453,657	9,989,149	10,440,608	44,290	37,293	35,533	34,114	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and GH4	7,686,591	8,118,979	8,564,734	9,010,069	9,509,503	10,046,157	10,497,766	40,925	33,972	31,916	26,890	25,529	25,766	22,269	18,253	16,105	15,341	12,691	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and MC3	7,711,037	8,103,546	8,526,674	8,972,360	9,446,090	9,981,054	10,434,789	44,459	41,752	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and GH2	7,689,255	8,122,132	8,568,561	9,010,815	9,512,079	10,047,182	10,489,700	41,615	34,581	32,444	27,338	25,896	26,052	22,474	18,378	16,149	14,973	12,154	5,232	4,152	214	0	0	0	0
Retire TY GR CR and MC1-2	7,663,785	8,126,211	8,638,340	9,030,808	9,399,058	9,845,743	10,341,344	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR BR1-2 and MC1-2	7,629,519	8,029,890	8,483,252	8,964,729	9,421,030	9,960,453	10,411,501	39,888	33,038	31,085	26,162	24,905	25,245	24,162	23,079	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Total Revenue Requirements Delta																									
No Retirements																									
Retire TY	1,659	55,674	59,139	-79,169	-83,602	-25,811	-24,178	-1,765	-1,679	-1,594	-1,508	-1,422	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and GR3	-29,793	-122,141	-184,086	-91,366	38,933	123,559	82,129	-1,765	-1,679	-1,594	-1,508	-1,422	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and BR3	-41,198	22,095	85,875	-15,690	-144,852	-235,543	-223,626	-5,284	-5,082	-4,879	-4,676	-4,474	-4,271	-4,068	-3,865	-3,663	-3,460	-1,405	0	0	0	0	0	0	0
Retire TY GR3 and CR4	-26,142	39,653	106,250	6,336	-121,649	-208,459	-172,293	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 and CR6	-25,010	-30,567	-34,839	-31,298	-31,249	-34,141	-43,662	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 CR6 and BR1-2	-31,840	-33,647	-36,226	-38,254	-37,938	-40,059	-43,495	-9,477	-9,055	-8,634	-8,212	-7,790	-7,369	-4,636	-1,384	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR	-33,203	-99,415	-168,664	-82,175	3,885	75,240	48,149	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH3	-42,543	17,105	78,158	-10,542	-76,545	-153,712	-137,254	-9,183	-8,860	-8,536	-8,212	-7,889	-7,565	-7,241	-6,918	-6,594	-6,270	-5,913	-5,232	-4,152	-214	0	0	0	0
Retire TY GR3 CR and GH1	-27,973	-37,839	-60,778	-91,081	-54,264	-37,861	-58,489	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR	-19,104	44,638	107,856	22,422	-61,237	-135,411	-112,682	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC4	-30,425	-63,579	-123,228	-65,908	37,096	135,783	95,479	-1,014	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and TC1	837	-71,696	-156,158	-99,291	6,409	97,265	51,842	-5,075	-4,801	-4,186	-261	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH4	-28,744	-63,173	-124,300	-68,883	62,254	154,273	108,999	-8,440	-8,121	-7,803	-7,484	-7,166	-6,847	-6,529	-6,210	-5,892	-5,243	-4,835	0	0	0	0	0	0	0
Retire TY GR CR and MC3	-4,298	-78,606	-162,360	-106,592	-1,158	89,170	46,022	-4,906	-341	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH2	-26,080	-60,021	-120,472	-68,137	64,830	155,298	100,934	-7,750	-7,512	-7,274	-7,037	-6,799	-6,561	-6,323	-6,086	-5,848	-5,610	-5,372	-5,135	-4,897	-4,659	-4,421	-4,000	-3,489	-253
Retire TY GR CR and MC1-2	-51,550	-55,942	-50,693	-48,143	-48,191	-46,141	-47,422	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR BR1-2 and MC1-2	-85,817	-152,263	-205,782	-114,222	-26,219	68,569	22,734	-9,477	-9,055	-8,634	-8,212	-7,790	-7,369	-4,636	-1,384	0	0	0	0	0	0	0	0	0	0
Total Revenue Requirements Cumulative D																									
No Retirements																									
Retire TY	-134,654	-78,980	-19,842	-99,011	-182,613	-208,424	-232,602																		
Retire TY and GR3	-78,155	-200,296	-384,383	-475,749	-436,816	-313,257	-231,128																		
Retire TY GR3 and BR3	-78,377	-56,282	29,593	13,903	-130,949	-366,493	-590,119																		
Retire TY GR3 and CR4	-713,925	-674,272	-568,022	-561,686	-683,334	-891,794	-1,064,087																		

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Discount Rate:

	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058
Retire TY GR3 CR4 and CR6	-699,725	-730,292	-765,131	-796,429	-827,678	-861,819	-905,481																		
Retire TY GR3 CR4 CR6 and BR1-2	-354,120	-387,767	-423,993	-462,247	-500,184	-540,244	-583,739																		
Retire TY GR3 and CR	-694,711	-794,126	-962,790	-1,044,965	-1,041,080	-965,840	-917,690																		
Retire TY GR3 CR and GH3	31,785	48,890	127,048	116,506	39,961	-113,751	-251,005																		
Retire TY GR3 CR and GH1	-93,770	-131,609	-192,387	-283,468	-337,732	-375,593	-434,083																		
Retire TY GR and CR	-371,080	-326,442	-218,586	-196,164	-257,400	-392,812	-505,494																		
Retire TY GR CR and MC4	-15,876	-79,455	-202,683	-268,592	-231,496	-95,713	-234																		
Retire TY GR CR and TC1	609,497	537,801	381,642	282,351	288,760	386,025	437,866																		
Retire TY GR CR and GH4	382,542	319,368	195,068	126,186	188,440	342,713	451,712																		
Retire TY GR CR and MC3	235,338	156,732	-5,628	-112,219	-113,378	-24,208	21,815																		
Retire TY GR CR and GH2	445,557	385,536	265,064	196,927	261,758	417,056	517,990																		
Retire TY GR CR and MC1-2	-252,908	-308,849	-359,543	-407,686	-455,876	-502,018	-549,440																		
Retire TY GR CR BR1-2 and MC1-2	-332,471	-484,733	-690,515	-804,737	-830,956	-762,386	-739,652																		

Discount Rate:

	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078
New Unit Capital and Production Cost																				
No Retirements																				
Retire TY																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
Production Cost																				
No Retirements																				
Retire TY																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
Production Cost Delta																				
No Retirements																				
Retire TY																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
New Unit Capital																				
No Retirements																				
Retire TY																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				

Discount Rate:

	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
New Unit Capital Delta																				
No Retirements																				
Retire TY																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
New Controls Capital																				
No Retirements	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and GR3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and BR3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 and CR6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 CR6 and BR1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and TC1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR BR1-2 and MC1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
New Controls Capital Delta																				
No Retirements																				
Retire TY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and GR3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and BR3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 and CR6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 CR6 and BR1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and TC1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR BR1-2 and MC1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTP Capital																				
No Retirements																				
Retire TY																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				

Discount Rate:

	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
MTP Capital Delta																				
No Retirements																				
Retire TY																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
Landfill Capital																				
No Retirements																				
Retire TY																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
Landfill Capital Delta																				
No Retirements																				
Retire TY																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
Water Capital																				
No Retirements																				
Retire TY																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				

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Discount Rate:

	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
Water Capital Delta																				
No Retirements																				
Retire TY																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
Total Capital																				
No Retirements	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and GR3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and BR3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 and CR6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 CR6 and BR1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and TC1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR BR1-2 and MC1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Capital Delta																				
No Retirements																				
Retire TY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and GR3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and BR3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 and CR6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 CR6 and BR1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and TC1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR BR1-2 and MC1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retirement O&M Cost																				
No Retirements																				
Retire TY																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				

Discount Rate:

	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
Retirement O&M Cost Delta																				
No Retirements																				
Retire TY																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
Existing Unit Fixed O&M																				
No Retirements																				
Retire TY																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
Existing Unit Fixed O&M Delta																				
No Retirements																				
Retire TY																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
New Controls Fixed O&M																				
No Retirements																				
Retire TY																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				

Discount Rate:

	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
New Controls Fixed O&M Delta																				
No Retirements																				
Retire TY																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
Total Revenue Requirements																				
No Retirements	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and GR3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and BR3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 and CR6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 CR6 and BR1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and TC1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR BR1-2 and MC1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Revenue Requirements Delta																				
No Retirements																				
Retire TY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and GR3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and BR3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 and CR6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 CR6 and BR1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and TC1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR BR1-2 and MC1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Revenue Requirements Cumulative D																				
No Retirements																				
Retire TY																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				

Discount Rate:

	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
Retire TY GR CR BR1-2 and MC1-2																				

Station	Unit		2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
BR	BR1	BR1FFP 0	0	238	3,127	7,278	12,105	12,775	12,123	11,534	10,999	10,472	9,946	9,420	8,894	8,368	7,842	7,483	7,291	7,099
BR	BR1	BR1SAM 0	0	0	0	231	521	550	522	497	474	452	429	407	384	362	339	324	315	307
BR	BR2	BR2FFP 0	0	252	3,379	7,865	13,414	13,865	13,156	12,514	11,931	11,357	10,783	10,210	9,636	9,062	8,488	8,095	7,881	7,668
BR	BR2	BR2SAM 0	0	0	0	231	534	553	525	499	476	453	431	408	385	362	340	324	315	307
BR	BR3	BR3FFP 0	0	0	204	2,854	7,595	13,437	14,120	13,404	12,757	12,171	11,595	11,019	10,443	9,867	9,290	8,714	8,325	8,122
GH	GH1	GH1FFP 0	0	64	4,332	10,157	17,736	19,154	18,156	17,246	16,412	15,591	14,769	13,948	13,127	12,305	11,484	10,897	10,545	10,193
GH	GH1	GH1SAM 0	0	122	562	1,006	1,964	2,121	2,010	1,909	1,817	1,726	1,635	1,544	1,453	1,362	1,271	1,206	1,167	1,128
GH	GH2	GH2FFP 0	0	0	2,787	7,280	15,016	18,298	17,569	16,777	16,056	15,369	14,684	13,998	13,313	12,627	11,942	11,257	10,791	10,556
GH	GH2	GH2SAM 0	0	11	724	984	935	891	851	814	779	744	709	674	639	605	570	546	535	523
GH	GH3	GH3FFP 0	0	0	0	3,571	8,804	18,270	21,813	20,853	19,901	19,030	18,199	17,369	16,538	15,708	14,877	14,047	13,216	12,647
GH	GH3	GH3SAM 0	0	115	565	1,578	1,935	1,853	1,769	1,691	1,618	1,544	1,471	1,397	1,324	1,250	1,177	1,126	1,099	1,073
GH	GH4	GH4FFP 0	0	0	0	2,843	7,668	14,952	21,319	20,238	19,257	18,361	17,541	16,757	15,973	15,188	14,404	13,619	12,835	12,050
GH	GH4	GH4SAM 0	0	122	527	974	1,948	1,967	1,872	1,786	1,707	1,631	1,555	1,479	1,403	1,328	1,252	1,176	1,124	1,096
MC	MC1	MC1FGD 0	0	0	2,360	7,268	12,372	21,934	23,856	22,601	21,453	20,399	19,360	18,320	17,281	16,242	15,203	14,164	13,412	12,949
MC	MC1	MC1FFP 0	0	0	1,271	5,238	9,364	17,796	19,361	18,343	17,414	16,559	15,717	14,875	14,032	13,190	12,348	11,506	10,896	10,520
MC	MC1	MC1SAM 0	0	0	0	42	560	1,131	1,232	1,168	1,109	1,055	1,001	948	895	841	788	735	696	672
MC	MC2	MC2FGD 0	0	0	2,361	7,270	12,377	23,214	24,770	23,450	22,238	21,119	20,015	18,911	17,806	16,702	15,598	14,494	13,677	13,148
MC	MC2	MC2FFP 0	0	0	1,215	5,051	9,134	18,426	19,666	18,620	17,659	16,772	15,896	15,021	14,145	13,270	12,395	11,519	10,871	10,450
MC	MC2	MC2SAM 0	0	0	0	42	560	1,197	1,279	1,211	1,149	1,092	1,035	978	922	865	808	752	710	682
MC	MC3	MC3FGDU 0	0	0	646	3,668	6,975	9,472	9,135	8,699	8,295	7,908	7,522	7,135	6,748	6,362	5,975	5,589	5,303	5,124
MC	MC3	MC3FGDR 0	0	0	0	0	39	175	207	197	187	179	170	162	154	145	137	128	121	115
MC	MC3	MC3FFP 0	0	0	0	3,730	8,326	13,896	18,276	17,601	16,757	15,977	15,228	14,480	13,732	12,985	12,237	11,489	10,742	10,190
MC	MC3	MC3SAM 0	0	0	734	1,992	2,100	1,997	1,901	1,813	1,728	1,642	1,557	1,472	1,387	1,302	1,217	1,155	1,116	1,077
MC	MC4	MC4FGD 0	0	379	6,987	15,193	21,072	28,573	27,555	26,231	25,008	23,834	22,662	21,491	20,319	19,147	17,976	16,804	15,940	15,402
MC	MC4	MC4SCR 0	0	105	667	724	688	655	625	596	566	537	508	479	449	420	399	386	372	359
MC	MC4	MC4FFP 0	0	377	5,055	10,178	14,629	19,836	19,129	18,210	17,361	16,546	15,733	14,919	14,106	13,293	12,479	11,666	11,066	10,692
MC	MC4	MC4SAM 0	0	0	0	578	1,620	2,201	2,123	2,022	1,929	1,839	1,749	1,660	1,570	1,480	1,391	1,301	1,235	1,193
TC	TC1	TC1FFP 0	0	0	0	2,200	5,745	11,967	15,834	15,223	14,502	13,838	13,200	12,564	11,927	11,291	10,654	10,018	9,381	8,918
CR	CR4	CR4FGD 0	0	394	3,222	13,574	27,295	25,773	24,370	23,071	21,861	20,666	19,471	18,276	17,081	15,886	14,691	13,773	13,130	12,488
CR	CR4	CR4SCR 0	64	390	2,395	6,163	10,786	10,183	9,627	9,112	8,633	8,160	7,687	7,214	6,740	6,267	5,794	5,431	5,177	4,924
CR	CR4	CR4FF 0	0	280	1,715	3,329	5,526	5,216	4,930	4,666	4,421	4,178	3,935	3,692	3,450	3,207	2,964	2,778	2,648	2,519
CR	CR4	CR4PAC 0	0	0	0	235	386	365	345	327	310	293	276	259	242	225	208	195	186	177
CR	CR4	CR4LIME 0	0	0	0	259	427	403	381	361	342	323	305	286	267	249	230	216	206	195
CR	CR5	CR5FGD 0	0	359	3,311	14,658	29,304	27,663	26,148	24,742	23,429	22,132	20,835	19,538	18,241	16,944	15,647	14,641	13,924	13,207
CR	CR5	CR5SCR 0	63	388	2,719	6,475	11,557	10,908	10,308	9,752	9,234	8,721	8,208	7,696	7,183	6,670	6,158	5,760	5,478	5,196
CR	CR5	CR5FF 0	0	300	1,823	3,531	5,992	5,654	5,343	5,054	4,785	4,519	4,253	3,987	3,721	3,455	3,189	2,983	2,837	2,691
CR	CR5	CR5PAC 0	0	0	0	251	423	399	378	357	338	320	301	282	263	245	226	212	201	191
CR	CR5	CR5LIME 0	0	0	0	278	468	441	417	395	374	353	333	312	291	271	250	234	222	211
CR	CR6	CR6FGD 0	0	346	3,887	18,407	35,115	33,170	31,385	29,739	28,213	26,706	25,199	23,692	22,185	20,678	19,171	18,033	17,265	16,496
CR	CR6	CR6SCR 0	79	1,294	4,201	8,457	14,206	13,414	12,689	12,019	11,399	10,787	10,175	9,563	8,951	8,339	7,727	7,266	6,956	6,646
CR	CR6	CR6FF 0	0	394	2,364	4,540	7,252	6,848	6,477	6,136	5,819	5,507	5,194	4,882	4,569	4,257	3,944	3,709	3,551	3,393
CR	CR6	CR6PAC 0	0	0	0	352	558	527	499	473	448	424	401	377	353	329	305	287	275	262
CR	CR6	CR6LIME 0	0	0	0	391	619	585	553	525	498	471	445	418	391	365	338	318	305	291
GR	GR3	GR3SFF 0	0	0	1,323	4,035	5,553	5,254	4,983	4,739	4,516	4,297	4,078	3,859	3,640	3,421	3,202	3,050	2,967	2,884
GR	GR3	GR3PAC 0	0	0	0	112	154	145	138	131	125	119	113	107	101	95	89	85	82	80
GR	GR4	GR4SFF 0	0	0	1,885	5,750	8,517	8,050	7,626	7,237	6,881	6,529	6,177	5,825	5,473	5,122	4,770	4,515	4,356	4,198
GR	GR4	GR4PAC 0	0	0	0	160	235	223	211	200	190	181	171	161	152	142	132	125	121	116

Station	Unit		2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045
BR	BR1	BR1FFP 0	6,908	6,716	6,525	6,333	6,141	5,950	5,758	5,566	5,375	5,183	4,991	4,800	4,608	4,417	4,225	4,033	3,842	3,650
BR	BR1	BR1SAM 0	299	291	282	274	266	257	249	241	232	224	216	208	199	191	183	174	166	158
BR	BR2	BR2FFP 0	7,455	7,242	7,028	6,815	6,602	6,388	6,175	5,962	5,749	5,535	5,322	5,109	4,895	4,682	4,469	4,256	4,042	3,829
BR	BR2	BR2SAM 0	298	290	281	273	264	256	247	239	230	222	213	205	196	187	179	170	162	153
BR	BR3	BR3FFP 0	7,920	7,717	7,514	7,311	7,109	6,906	6,703	6,501	6,298	6,095	5,893	5,690	5,487	5,284	5,082	4,879	4,676	4,474
GH	GH1	GH1FFP 0	9,841	9,489	9,137	8,785	8,433	8,081	7,729	7,377	7,025	6,673	6,321	5,969	2,424	0	0	0	0	0
GH	GH1	GH1SAM 0	1,089	1,050	1,011	972	933	894	855	816	777	738	699	661	268	0	0	0	0	0
GH	GH2	GH2FFP 0	10,330	10,104	9,878	9,652	9,425	9,199	8,973	8,747	8,521	8,295	8,069	7,843	7,617	7,391	7,165	6,939	6,713	6,486
GH	GH2	GH2SAM 0	511	500	488	476	464	453	441	429	418	406	394	383	371	359	348	336	324	312
GH	GH3	GH3FFP 0	12,344	12,047	11,750	11,452	11,155	10,858	10,561	10,263	9,966	9,669	9,372	9,075	8,777	8,480	8,183	7,886	7,588	7,291
GH	GH3	GH3SAM 0	1,047	1,020	994	967	941	915	888	862	835	809	782	756	730	703	677	650	624	598
GH	GH4	GH4FFP 0	11,513	11,223	10,932	10,642	10,352	10,061	9,771	9,481	9,190	8,900	8,610	8,319	8,029	7,739	7,448	7,158	6,867	6,577
GH	GH4	GH4SAM 0	1,068	1,039	1,011	983	955	927	899	870	842	814	786	758	730	701	673	645	617	589
MC	MC1	MC1FGD 0	12,485	12,022	11,558	11,095	10,631	10,167	9,704	9,240	8,777	8,313	7,850	3,188	0	0	0	0	0	0
MC	MC1	MC1FFP 0	10,143	9,767	9,390	9,013	8,637	8,260	7,884	7,507	7,130	6,754	6,377	2,590	0	0	0	0	0	0
MC	MC1	MC1SAM 0	648	624	600	576	552	528	504	480	455	431	407	165	0	0	0	0	0	0
MC	MC2	MC2FGD 0	12,618	12,088	11,558	11,028	10,499	9,969	9,439	8,909	2,908	0	0	0	0	0	0	0	0	0
MC	MC2	MC2FFP 0	10,029	9,608	9,187	8,766	8,344	7,923	7,502	7,081	2,311	0	0	0	0	0	0	0	0	0
MC	MC2	MC2SAM 0	655	627	600	572	545	517	490	462	151	0	0	0	0	0	0	0	0	0
MC	MC3	MC3FGDU 0	4,950	4,777	4,603	4,429	4,256	4,082	3,909	3,735	3,561	3,388	3,214	3,040	2,653	188	0	0	0	0
MC	MC3	MC3FGDR 0	111	107	104	100	96	92	88	85	81	77	73	69	64	44	0	0	0	0
MC	MC3	MC3FFP 0	9,844	9,510	9,175	8,841	8,506	8,172	7,837	7,503	7,168	6,834	6,499	6,165	5,830	4,673	341	0	0	0
MC	MC3	MC3SAM 0	1,039	1,000	961	923	884	846	807	768	730	691	652	213	0	0	0	0	0	0
MC	MC4	MC4FGD 0	14,880	14,358	13,836	13,314	12,792	12,270	11,748	11,226	10,705	10,183	9,661	9,139	7,976	573	0	0	0	0
MC	MC4	MC4SCR 0	346	332	319	306	292	279	266	252	239	226	92	0	0	0	0	0	0	0
MC	MC4	MC4FFP 0	10,330	9,968	9,605	9,243	8,881	8,518	8,156	7,794	7,431	7,069	6,707	6,344	5,537	398	0	0	0	0
MC	MC4	MC4SAM 0	1,153	1,112	1,072	1,031	991	951	910	870	829	789	748	708	618	44	0	0	0	0
TC	TC1	TC1FFP 0	8,637	8,363	8,089	7,815	7,541	7,267	6,993	6,719	6,445	6,171	5,897	5,623	5,349	5,075	4,801	4,186	261	0
CR	CR4	CR4FGD 0	11,845	11,203	10,560	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR4	CR4SCR 0	4,671	4,417	4,164	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR4	CR4FF 0	2,389	2,260	2,130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR4	CR4PAC 0	168	159	150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR4	CR4LIME 0	185	175	165	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR5	CR5FGD 0	12,490	11,774	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR5	CR5SCR 0	4,914	4,632	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR5	CR5FF 0	2,545	2,399	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR5	CR5PAC 0	180	170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR5	CR5LIME 0	199	188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR6	CR6FGD 0	15,727	14,959	14,190	13,421	12,653	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR6	CR6SCR 0	6,337	6,027	5,717	5,408	5,098	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR6	CR6FF 0	3,235	3,077	2,919	2,761	2,602	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR6	CR6PAC 0	250	238	226	213	201	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR6	CR6LIME 0	278	264	250	237	223	0	0	0	0	0	0	0	0	0	0	0	0	0
GR	GR3	GR3SFF 0	2,800	2,717	2,634	2,550	2,467	2,384	2,300	2,217	2,134	2,050	1,967	1,884	1,800	1,717	1,634	1,550	1,467	1,384
GR	GR3	GR3PAC 0	78	75	73	71	68	66	64	62	59	57	55	52	50	48	45	43	41	38
GR	GR4	GR4SFF 0	4,040	3,881	3,723	3,565	3,407	3,248	3,090	2,932	2,773	2,615	0	0	0	0	0	0	0	0
GR	GR4	GR4PAC 0	112	108	103	99	94	90	86	81	77	73	0	0	0	0	0	0	0	0

Station	Unit		2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059
BR	BR1	BR1FFP 0	3,458	3,267	1,327	0	0	0	0	0	0	0	0	0	0	0
BR	BR1	BR1SAM 0	150	141	57	0	0	0	0	0	0	0	0	0	0	0
BR	BR2	BR2FFP 0	3,616	1,180	0	0	0	0	0	0	0	0	0	0	0	0
BR	BR2	BR2SAM 0	145	47	0	0	0	0	0	0	0	0	0	0	0	0
BR	BR3	BR3FFP 0	4,271	4,068	3,865	3,663	3,460	1,405	0	0	0	0	0	0	0	0
GH	GH1	GH1FFP 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GH	GH1	GH1SAM 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GH	GH2	GH2FFP 0	6,260	6,034	5,808	5,582	5,356	5,130	4,904	4,678	4,452	4,226	4,000	3,489	253	0
GH	GH2	GH2SAM 0	301	289	277	266	254	242	231	219	207	196	0	0	0	0
GH	GH3	GH3FFP 0	6,994	6,697	6,400	6,102	5,805	5,508	5,211	4,152	214	0	0	0	0	0
GH	GH3	GH3SAM 0	571	545	518	492	465	405	21	0	0	0	0	0	0	0
GH	GH4	GH4FFP 0	6,287	5,996	5,706	5,416	5,125	4,835	0	0	0	0	0	0	0	0
GH	GH4	GH4SAM 0	561	532	504	476	117	0	0	0	0	0	0	0	0	0
MC	MC1	MC1FGD 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC1	MC1FFP 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC1	MC1SAM 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC2	MC2FGD 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC2	MC2FFP 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC2	MC2SAM 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC3	MC3FGDU 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC3	MC3FGDR 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC3	MC3FFP 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC3	MC3SAM 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC4	MC4FGD 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC4	MC4SCR 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC4	MC4FFP 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC4	MC4SAM 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TC	TC1	TC1FFP 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR4	CR4FGD 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR4	CR4SCR 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR4	CR4FF 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR4	CR4PAC 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR4	CR4LIME 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR5	CR5FGD 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR5	CR5SCR 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR5	CR5FF 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR5	CR5PAC 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR5	CR5LIME 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR6	CR6FGD 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR6	CR6SCR 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR6	CR6FF 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR6	CR6PAC 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR6	CR6LIME 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GR	GR3	GR3SFF 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GR	GR3	GR3PAC 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GR	GR4	GR4SFF 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GR	GR4	GR4PAC 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

		2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
	Retirement Cost																	
	All Units	0	0	0	0	0	0	2100	0	0	0	0	0	0	0	0	0	0
2% Escalation Rate																		
	Unit Costs ($000)																	
BR	BR1		3,816	4,811	3,969	4,049	4,130	4,212	4,296	4,382	4,470	4,559	4,651	4,744	4,838	4,935	5,034	5,135
BR	BR2		6,633	7,160	7,253	7,398	7,546	7,697	7,851	8,008	8,168	8,331	8,498	8,668	8,841	9,018	9,199	9,383
BR	BR3		15,885	20,876	14,904	15,202	15,506	15,816	16,132	16,455	16,784	17,120	17,462	17,811	18,167	18,531	18,901	19,279
CR	CR4		14,372	9,218	12,029	12,269	12,515	12,765	13,020	13,281	13,546	13,817	14,094	14,375	14,663	14,956	15,255	15,560
CR	CR5		11,842	9,889	12,791	13,047	13,308	13,574	13,845	14,122	14,405	14,693	14,987	15,286	15,592	15,904	16,222	16,546
CR	CR6		10,666	11,619	10,173	10,376	10,584	10,795	11,011	11,231	11,456	11,685	11,919	12,157	12,400	12,648	12,901	13,159
GH	GH1		17,829	19,141	17,966	18,325	18,691	19,065	19,447	19,835	20,232	20,637	21,050	21,471	21,900	22,338	22,785	23,240
GH	GH2		12,225	18,498	13,429	13,698	13,972	14,251	14,536	14,827	15,124	15,426	15,735	16,049	16,370	16,698	17,032	17,372
GH	GH3		17,961	13,501	12,475	12,724	12,979	13,238	13,503	13,773	14,049	14,330	14,616	14,909	15,207	15,511	15,821	16,138
GH	GH4		11,533	13,496	12,105	12,347	12,594	12,846	13,103	13,365	13,632	13,905	14,183	14,467	14,756	15,051	15,352	15,659
GR	GR3		4,270	5,792	4,360	4,447	4,536	4,627	4,719	4,813	4,910	5,008	5,108	5,210	5,314	5,421	5,529	5,640
GR	GR4		7,338	6,924	8,633	8,805	8,982	9,161	9,344	9,531	9,722	9,916	10,115	10,317	10,523	10,734	10,949	11,167
MC	MC1		11,892	17,333	12,669	12,923	13,181	13,445	13,714	13,988	14,268	14,553	14,844	15,141	15,444	15,753	16,068	16,389
MC	MC2		16,179	11,941	15,201	15,505	15,815	16,131	16,454	16,783	17,118	17,461	17,810	18,166	18,530	18,900	19,278	19,664
MC	MC3		18,313	14,238	17,221	17,566	17,917	18,275	18,641	19,014	19,394	19,782	20,177	20,581	20,993	21,412	21,841	22,278
MC	MC4		16,531	18,981	17,245	17,590	17,942	18,300	18,666	19,040	19,421	19,809	20,205	20,609	21,021	21,442	21,871	22,308
TC	TC1		17,205	15,170	17,403	17,751	18,106	18,468	18,837	19,214	19,598	19,990	20,390	20,798	21,214	21,638	22,071	22,512
TY	TY3		410	416	418	427	435	444	453	462	471	480	490	500	510	520	530	541

		2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
	Retirement Cost														
	All Units	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2% Escalation Rate														
	Unit Costs ($000)														
BR	BR1	5,237	5,342	5,449	5,558	5,669	5,782	5,898	6,016	6,136	6,259	6,384	6,512	6,642	6,775
BR	BR2	9,570	9,762	9,957	10,156	10,359	10,566	10,778	10,993	11,213	11,437	11,666	11,899	12,137	12,380
BR	BR3	19,665	20,058	20,460	20,869	21,286	21,712	22,146	22,589	23,041	23,502	23,972	24,451	24,940	25,439
CR	CR4	15,872	16,189	16,513	16,843	17,180	17,524	17,874	18,232	18,596	18,968	19,347	19,734	20,129	20,532
CR	CR5	16,877	17,215	17,559	17,910	18,269	18,634	19,007	19,387	19,775	20,170	20,573	20,985	21,405	21,833
CR	CR6	13,423	13,691	13,965	14,244	14,529	14,820	15,116	15,418	15,727	16,041	16,362	16,689	17,023	17,364
GH	GH1	23,705	24,179	24,663	25,156	25,659	26,172	26,696	27,230	27,774	28,330	28,897	29,474	30,064	30,665
GH	GH2	17,720	18,074	18,436	18,804	19,181	19,564	19,955	20,355	20,762	21,177	21,600	22,032	22,473	22,923
GH	GH3	16,460	16,790	17,125	17,468	17,817	18,174	18,537	18,908	19,286	19,672	20,065	20,466	20,876	21,293
GH	GH4	15,973	16,292	16,618	16,950	17,289	17,635	17,988	18,347	18,714	19,089	19,470	19,860	20,257	20,662
GR	GR3	5,753	5,868	5,985	6,105	6,227	6,351	6,478	6,608	6,740	6,875	7,012	7,153	7,296	7,442
GR	GR4	11,391	11,619	11,851	12,088	12,330	12,576	12,828	13,084	13,346	13,613	13,885	14,163	14,446	14,735
MC	MC1	16,717	17,051	17,392	17,740	18,095	18,457	18,826	19,202	19,586	19,978	20,378	20,785	21,201	21,625
MC	MC2	20,057	20,458	20,867	21,285	21,710	22,145	22,587	23,039	23,500	23,970	24,449	24,938	25,437	25,946
MC	MC3	22,723	23,178	23,641	24,114	24,596	25,088	25,590	26,102	26,624	27,156	27,699	28,253	28,818	29,395
MC	MC4	22,754	23,209	23,674	24,147	24,630	25,123	25,625	26,138	26,660	27,194	27,737	28,292	28,858	29,435
TC	TC1	22,962	23,422	23,890	24,368	24,855	25,352	25,859	26,377	26,904	27,442	27,991	28,551	29,122	29,704
TY	TY3	552	563	574	586	597	609	622	634	647	660	673	686	700	714

Escalation Rate: 2% Year $: 2010

		Month	Year	Equipment	Fixed O&M $/yr	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
BR	BR1	5	2014	PJFF/PAC		0	0	0	598,882	610,860	623,077	635,538	648,249	661,214	674,439	687,927	701,686	715,720	730,034	744,635	759,527	774,718
BR	BR1	5	2014	SAM Mitigation		0	0	0	78,540	137,333	140,079	142,881	145,739	148,653	151,627	154,659	157,752	160,907	164,125	167,408	170,756	174,171
BR	BR2	4	2014	PJFF/PAC		0	0	0	714,168	728,451	743,020	757,880	773,038	788,499	804,269	820,354	836,761	853,496	870,566	887,978	905,737	923,852
BR	BR2	4	2014	SAM Mitigation		0	0	0	134,640	137,333	140,079	142,881	145,739	148,653	151,627	154,659	157,752	160,907	164,125	167,408	170,756	174,171
BR	BR3	5	2015	PJFF/PAC		0	0	0	0	1,067,560	1,088,911	1,110,689	1,132,903	1,155,561	1,178,672	1,202,245	1,226,290	1,250,816	1,275,832	1,301,349	1,327,376	1,353,924
GH	GH1	5	2014	PJFF/PAC		0	0	0	1,293,082	1,318,944	1,345,322	1,372,229	1,399,673	1,427,667	1,456,220	1,485,345	1,515,052	1,545,353	1,576,260	1,607,785	1,639,941	1,672,739
GH	GH1	5	2014	SCR Turn-Down		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GH	GH1	2	2013	SAM Mitigation		0	0	0	4,899	0	0	0	0	0	0	0	0	0	0	0	0	0
GH	GH2	11	2014	PJFF/PAC		0	0	0	777,600	1,586,304	1,618,030	1,650,391	1,683,399	1,717,067	1,751,408	1,786,436	1,822,165	1,858,608	1,895,781	1,933,696	1,972,370	2,011,817
GH	GH2	12	2012	Sorbent Injection		0	8,064	98,700	100,674	102,687	104,741	106,836	108,973	111,152	113,375	115,643	117,956	120,315	122,721	125,175	127,679	130,232
GH	GH3	10	2015	PJFF/PAC		0	0	0	0	652,436	1,330,969	1,357,589	1,384,741	1,412,435	1,440,684	1,469,498	1,498,888	1,528,865	1,559,443	1,590,632	1,622,444	1,654,893
GH	GH3	11	2013	SCR Turn-Down		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GH	GH3	2	2013	SAM Mitigation		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GH	GH4	12	2015	PJFF/PAC		0	0	0	0	631,870	1,289,014	1,314,795	1,341,091	1,367,912	1,395,271	1,423,176	1,451,640	1,480,672	1,510,286	1,540,491	1,571,301	1,602,727
GH	GH4	3	2014	SCR Turn-Down		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GH	GH4	2	2013	SAM Mitigation		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC1	5	2015	Combined 1&2 FGD		0	0	0	0	-238,642	-219,636	-200,250	-180,476	-160,306	-139,733	-118,749	-121,124	-123,546	-126,017	-128,537	-131,108	-133,730
MC	MC1	5	2015	PJFF/PAC		0	0	0	0	1,446,222	1,475,147	1,504,650	1,534,743	1,565,438	1,596,746	1,628,681	1,661,255	1,694,480	1,728,370	1,762,937	1,798,196	1,834,160
MC	MC1	5	2015	SAM Mitigation		0	0	0	0	22,100	38,643	39,416	40,204	41,008	41,828	42,665	43,518	44,388	45,276	46,182	47,105	48,047
MC	MC2	4	2015	Combined 1&2 FGD		0	0	0	0	186,506	205,512	224,899	244,673	264,842	285,415	306,400	312,528	318,778	325,154	331,657	338,290	345,056
MC	MC2	4	2015	PJFF/PAC		0	0	0	0	1,418,867	1,447,245	1,476,189	1,505,713	1,535,828	1,566,544	1,597,875	1,629,832	1,662,429	1,695,678	1,729,591	1,764,183	1,799,467
MC	MC2	4	2015	SAM Mitigation		0	0	0	0	25,257	38,643	39,416	40,204	41,008	41,828	42,665	43,518	44,388	45,276	46,182	47,105	48,047
MC	MC3	11	2014	FGD		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC3	10	2015	PJFF/PAC		0	0	0	0	646,753	1,319,377	1,345,764	1,372,679	1,400,133	1,428,136	1,456,698	1,485,832	1,515,549	1,545,860	1,576,777	1,608,313	1,640,479
MC	MC3	4	2013	SAM Mitigation		0	0	24,068	36,824	37,560	38,312	39,078	39,859	40,657	41,470	42,299	43,145	44,008	44,888	45,786	46,702	47,636
MC	MC3	4	2013	SCR Turn-Down		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC4	11	2014	FGD		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC4	11	2014	PJFF/PAC		0	0	0	743,376	1,516,487	1,546,817	1,577,754	1,609,309	1,641,495	1,674,325	1,707,811	1,741,967	1,776,807	1,812,343	1,848,590	1,885,562	1,923,273
MC	MC4	11	2014	SAM Mitigation		0	0	0	3,095	37,885	38,643	39,416	40,204	41,008	41,828	42,665	43,518	44,388	45,276	46,182	47,105	48,047
MC	MC4	11	2014	SCR Turn-Down		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TC	TC1	11	2015	PJFF/PAC		0	0	0	0	493,761	1,007,273	1,027,418	1,047,966	1,068,926	1,090,304	1,112,110	1,134,353	1,157,040	1,180,180	1,203,784	1,227,860	1,252,417
CR	CR4	1	2016	SCR	1,871,000	0	0	0	0	0	2,107,050	2,149,191	2,192,175	2,236,018	2,280,739	2,326,353	2,372,880	2,420,338	2,468,745	2,518,120	2,568,482	2,619,852
CR	CR4	1	2016	WFGD		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR4	1	2016	PJFF	1,191,000	0	0	0	0	0	1,341,259	1,368,085	1,395,446	1,423,355	1,451,822	1,480,859	1,510,476	1,540,685	1,571,499	1,602,929	1,634,988	1,667,688
CR	CR4	1	2016	SAM Mitigation	174,000	0	0	0	0	0	195,952	199,871	203,869	207,946	212,105	216,347	220,674	225,088	229,589	234,181	238,865	243,642
CR	CR4	1	2016	PAC Injection	169,000	0	0	0	0	0	190,321	194,128	198,010	201,971	206,010	210,130	214,333	218,620	222,992	227,452	232,001	236,641
CR	CR5	1	2016	SCR	1,993,000	0	0	0	0	0	2,244,442	2,289,331	2,335,117	2,381,819	2,429,456	2,478,045	2,527,606	2,578,158	2,629,721	2,682,316	2,735,962	2,790,681
CR	CR5	1	2016	WFGD		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR5	1	2016	PJFF	1,251,000	0	0	0	0	0	1,408,829	1,437,006	1,465,746	1,495,061	1,524,962	1,555,461	1,586,570	1,618,302	1,650,668	1,683,681	1,717,355	1,751,702
CR	CR5	1	2016	SAM Mitigation	177,000	0	0	0	0	0	199,331	203,317	207,384	211,531	215,762	220,077	224,479	228,968	233,548	238,219	242,983	247,843
CR	CR5	1	2016	PAC Injection	172,000	0	0	0	0	0	193,700	197,574	201,525	205,556	209,667	213,860	218,138	222,500	226,950	231,489	236,119	240,842
CR	CR6	1	2016	SCR	2,392,000	0	0	0	0	0	2,693,781	2,747,656	2,802,609	2,858,661	2,915,835	2,974,151	3,033,634	3,094,307	3,156,193	3,219,317	3,283,703	3,349,377
CR	CR6	1	2016	WFGD		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR6	1	2016	PJFF	1,632,000	0	0	0	0	0	1,837,897	1,874,655	1,912,148	1,950,391	1,989,399	2,029,187	2,069,771	2,111,166	2,153,389	2,196,457	2,240,386	2,285,194
CR	CR6	1	2016	SAM Mitigation	198,000	0	0	0	0	0	222,980	227,440	231,989	236,628	241,361	246,188	251,112	256,134	261,257	266,482	271,812	277,248
CR	CR6	1	2016	PAC Injection	191,000	0	0	0	0	0	215,097	219,399	223,787	228,263	232,828	237,484	242,234	247,079	252,020	257,061	262,202	267,446
GR	GR3	1	2016	SCR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GR	GR3	1	2016	CDS-FF	3,322,000	0	0	0	0	0	3,741,112	3,815,934	3,892,252	3,970,098	4,049,499	4,130,489	4,213,099	4,297,361	4,383,308	4,470,975	4,560,394	4,651,602
GR	GR3	1	2016	PAC Injection	141,000	0	0	0	0	0	158,789	161,965	165,204	168,508	171,878	175,316	178,822	182,399	186,047	189,767	193,563	197,434
GR	GR4	1	2016	SCR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GR	GR4	1	2016	CDS-FF	4,309,000	0	0	0	0	0	4,852,634	4,949,687	5,048,680	5,149,654	5,252,647	5,357,700	5,464,854	5,574,151	5,685,634	5,799,347	5,915,334	6,033,640
GR	GR4	1	2016	PAC Injection	150,000	0	0	0	0	0	168,924	172,303	175,749	179,264	182,849	186,506	190,236	194,041	197,922	201,880	205,918	210,036

Escalation Rate: 2% Year $:

		Month	Year	Equipment	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
BR	BR1	5	2014	PJFF/PAC	790,212	806,016	822,137	838,580	855,351	872,458	889,907	907,705	925,860	944,377	963,264	982,530	1,002,180
BR	BR1	5	2014	SAM Mitigation	177,655	181,208	184,832	188,529	192,299	196,145	200,068	204,069	208,151	212,314	216,560	220,891	225,309
BR	BR2	4	2014	PJFF/PAC	942,329	961,175	980,399	1,000,007	1,020,007	1,040,407	1,061,215	1,082,440	1,104,088	1,126,170	1,148,694	1,171,668	1,195,101
BR	BR2	4	2014	SAM Mitigation	177,655	181,208	184,832	188,529	192,299	196,145	200,068	204,069	208,151	212,314	216,560	220,891	225,309
BR	BR3	5	2015	PJFF/PAC	1,381,002	1,408,622	1,436,795	1,465,530	1,494,841	1,524,738	1,555,233	1,586,337	1,618,064	1,650,425	1,683,434	1,717,103	1,751,445
GH	GH1	5	2014	PJFF/PAC	1,706,194	1,740,318	1,775,124	1,810,627	1,846,839	1,883,776	1,921,452	1,959,881	1,999,078	2,039,060	2,079,841	2,121,438	2,163,867
GH	GH1	5	2014	SCR Turn-Down	0	0	0	0	0	0	0	0	0	0	0	0	0
GH	GH1	2	2013	SAM Mitigation	0	0	0	0	0	0	0	0	0	0	0	0	0
GH	GH2	11	2014	PJFF/PAC	2,052,054	2,093,095	2,134,957	2,177,656	2,221,209	2,265,633	2,310,946	2,357,165	2,404,308	2,452,394	2,501,442	2,551,471	2,602,500
GH	GH2	12	2012	Sorbent Injection	132,837	135,494	138,204	140,968	143,787	146,663	149,596	152,588	155,640	158,753	161,928	165,166	168,470
GH	GH3	10	2015	PJFF/PAC	1,687,991	1,721,751	1,756,186	1,791,310	1,827,136	1,863,678	1,900,952	1,938,971	1,977,751	2,017,306	2,057,652	2,098,805	2,140,781
GH	GH3	11	2013	SCR Turn-Down	0	0	0	0	0	0	0	0	0	0	0	0	0
GH	GH3	2	2013	SAM Mitigation	0	0	0	0	0	0	0	0	0	0	0	0	0
GH	GH4	12	2015	PJFF/PAC	1,634,782	1,667,477	1,700,827	1,734,844	1,769,540	1,804,931	1,841,030	1,877,850	1,915,407	1,953,716	1,992,790	2,032,646	2,073,299
GH	GH4	3	2014	SCR Turn-Down	0	0	0	0	0	0	0	0	0	0	0	0	0
GH	GH4	2	2013	SAM Mitigation	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC1	5	2015	Combined 1&2 F(	-136,405	-139,133	-141,916	-144,754	-147,649	-150,602	-153,614	-156,686	-159,820	-163,017	-166,277	-169,602	-172,994
MC	MC1	5	2015	PJFF/PAC	1,870,843	1,908,260	1,946,425	1,985,354	2,025,061	2,065,562	2,106,873	2,149,010	2,191,991	2,235,831	2,280,547	2,326,158	2,372,681
MC	MC1	5	2015	SAM Mitigation	49,008	49,989	50,988	52,008	53,048	54,109	55,191	56,295	57,421	58,570	59,741	60,936	62,155
MC	MC2	4	2015	Combined 1&2 F(	351,957	358,996	366,176	373,499	380,969	388,589	396,361	404,288	412,374	420,621	429,033	437,614	446,366
MC	MC2	4	2015	PJFF/PAC	1,835,456	1,872,165	1,909,608	1,947,801	1,986,757	2,026,492	2,067,022	2,108,362	2,150,529	2,193,540	2,237,411	2,282,159	2,327,802
MC	MC2	4	2015	SAM Mitigation	49,008	49,989	50,988	52,008	53,048	54,109	55,191	56,295	57,421	58,570	59,741	60,936	62,155
MC	MC3	11	2014	FGD	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC3	10	2015	PJFF/PAC	1,673,288	1,706,754	1,740,889	1,775,707	1,811,221	1,847,446	1,884,395	1,922,083	1,960,524	1,999,735	2,039,729	2,080,524	2,122,134
MC	MC3	4	2013	SAM Mitigation	48,588	49,560	50,551	51,562	52,594	53,645	54,718	55,813	56,929	58,068	59,229	60,414	61,622
MC	MC3	4	2013	SCR Turn-Down	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC4	11	2014	FGD	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC4	11	2014	PJFF/PAC	1,961,738	2,000,973	2,040,992	2,081,812	2,123,449	2,165,918	2,209,236	2,253,421	2,298,489	2,344,459	2,391,348	2,439,175	2,487,958
MC	MC4	11	2014	SAM Mitigation	49,008	49,989	50,988	52,008	53,048	54,109	55,191	56,295	57,421	58,570	59,741	60,936	62,155
MC	MC4	11	2014	SCR Turn-Down	0	0	0	0	0	0	0	0	0	0	0	0	0
TC	TC1	11	2015	PJFF/PAC	1,277,465	1,303,015	1,329,075	1,355,656	1,382,769	1,410,425	1,438,633	1,467,406	1,496,754	1,526,689	1,557,223	1,588,367	1,620,135
CR	CR4	1	2016	SCR	2,672,249	2,725,694	2,780,208	2,835,812	2,892,528	2,950,379	3,009,386	3,069,574	3,130,965	3,193,585	3,257,456	3,322,605	3,389,058
CR	CR4	1	2016	WFGD	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR4	1	2016	PJFF	1,701,041	1,735,062	1,769,763	1,805,159	1,841,262	1,878,087	1,915,649	1,953,962	1,993,041	2,032,902	2,073,560	2,115,031	2,157,332
CR	CR4	1	2016	SAM Mitigation	248,515	253,485	258,555	263,726	269,000	274,380	279,868	285,465	291,175	296,998	302,938	308,997	315,177
CR	CR4	1	2016	PAC Injection	241,374	246,201	251,125	256,148	261,271	266,496	271,826	277,262	282,808	288,464	294,233	300,118	306,120
CR	CR5	1	2016	SCR	2,846,495	2,903,425	2,961,493	3,020,723	3,081,137	3,142,760	3,205,615	3,269,728	3,335,122	3,401,825	3,469,861	3,539,258	3,610,044
CR	CR5	1	2016	WFGD	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR5	1	2016	PJFF	1,786,736	1,822,471	1,858,920	1,896,099	1,934,021	1,972,701	2,012,155	2,052,398	2,093,446	2,135,315	2,178,021	2,221,582	2,266,013
CR	CR5	1	2016	SAM Mitigation	252,800	257,856	263,013	268,273	273,638	279,111	284,693	290,387	296,195	302,119	308,161	314,325	320,611
CR	CR5	1	2016	PAC Injection	245,658	250,572	255,583	260,695	265,909	271,227	276,651	282,184	287,828	293,584	299,456	305,445	311,554
CR	CR6	1	2016	SCR	3,416,365	3,484,692	3,554,386	3,625,474	3,697,983	3,771,943	3,847,382	3,924,330	4,002,816	4,082,872	4,164,530	4,247,820	4,332,777
CR	CR6	1	2016	WFGD	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR6	1	2016	PJFF	2,330,898	2,377,516	2,425,066	2,473,567	2,523,039	2,573,500	2,624,970	2,677,469	2,731,018	2,785,639	2,841,352	2,898,179	2,956,142
CR	CR6	1	2016	SAM Mitigation	282,793	288,449	294,218	300,102	306,104	312,226	318,471	324,840	331,337	337,964	344,723	351,617	358,650
CR	CR6	1	2016	PAC Injection	272,795	278,251	283,816	289,492	295,282	301,188	307,212	313,356	319,623	326,015	332,536	339,186	345,970
GR	GR3	1	2016	SCR	0	0	0	0	0	0	0	0	0	0	0	0	0
GR	GR3	1	2016	CDS-FF	4,744,634	4,839,527	4,936,317	5,035,044	5,135,744	5,238,459	5,343,229	5,450,093	5,559,095	5,670,277	5,783,682	5,899,356	6,017,343
GR	GR3	1	2016	PAC Injection	201,383	205,410	209,519	213,709	217,983	222,343	226,790	231,325	235,952	240,671	245,484	250,394	255,402
GR	GR4	1	2016	SCR	0	0	0	0	0	0	0	0	0	0	0	0	0
GR	GR4	1	2016	CDS-FF	6,154,313	6,277,399	6,402,947	6,531,006	6,661,626	6,794,859	6,930,756	7,069,371	7,210,759	7,354,974	7,502,073	7,652,115	7,805,157
GR	GR4	1	2016	PAC Injection	214,237	218,522	222,892	227,350	231,897	236,535	241,266	246,091	251,013	256,033	261,154	266,377	271,704

Station	Unit	Capacity	$000 2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
BR	BR1	101	69	164	256	346	434	520	605	689	771	852	931	1,008	1,085	1,163	1,241	1,320	1,399	1,479
BR	BR2	167	114	271	423	571	717	860	1,001	1,139	1,275	1,408	1,539	1,667	1,794	1,922	2,052	2,182	2,313	2,446
BR	BR3	416	285	675	1,053	1,423	1,786	2,143	2,493	2,838	3,176	3,508	3,834	4,153	4,469	4,789	5,111	5,435	5,762	6,092
CR	CR4	155	77	204	327	447	564	678	790	899	1,006	1,109	1,210	1,308	1,405	1,501	1,596	1,691	1,786	1,880
CR	CR5	168	84	221	355	485	611	735	856	975	1,090	1,202	1,312	1,418	1,522	1,626	1,730	1,833	1,936	2,038
CR	CR6	240	120	316	507	692	873	1,050	1,223	1,392	1,557	1,718	1,874	2,026	2,175	2,324	2,471	2,619	2,765	2,911
GH	GH1	475	510	1,206	1,884	2,548	3,200	3,843	4,477	5,101	5,717	6,322	6,918	7,504	8,080	8,653	9,231	9,814	10,402	10,995
GH	GH2	484	520	1,228	1,920	2,596	3,261	3,916	4,562	5,198	5,825	6,442	7,049	7,646	8,233	8,817	9,405	9,999	10,599	11,204
GH	GH3	480	516	1,218	1,904	2,575	3,234	3,883	4,524	5,155	5,777	6,389	6,991	7,583	8,165	8,744	9,328	9,917	10,511	11,111
GH	GH4	479	515	1,216	1,900	2,570	3,227	3,875	4,514	5,144	5,765	6,376	6,977	7,567	8,148	8,726	9,308	9,896	10,489	11,088
GR	GR3	68	39	96	151	205	258	309	360	410	458	506	553	598	643	689	734	780	825	871
GR	GR4	95	55	134	211	286	360	432	503	572	640	707	772	836	899	962	1,026	1,089	1,153	1,217
MC	MC1	303	309	767	1,213	1,649	2,077	2,497	2,910	3,315	3,714	4,104	4,487	4,862	5,229	5,592	5,956	6,320	6,686	7,053
MC	MC2	301	307	762	1,205	1,639	2,063	2,480	2,891	3,294	3,689	4,077	4,458	4,830	5,194	5,555	5,916	6,279	6,642	7,007
MC	MC3	391	398	989	1,565	2,128	2,680	3,222	3,755	4,278	4,792	5,296	5,790	6,274	6,747	7,216	7,685	8,156	8,628	9,102
MC	MC4	477	486	1,207	1,910	2,597	3,270	3,931	4,581	5,219	5,846	6,461	7,064	7,654	8,231	8,803	9,376	9,950	10,526	11,103
TC	TC1	383	115	270	420	567	712	855	996	1,135	1,272	1,407	1,539	1,670	1,799	1,927	2,057	2,188	2,320	2,453
TC	TC2	549	166	386	602	813	1,021	1,225	1,427	1,626	1,823	2,016	2,207	2,394	2,579	2,762	2,948	3,136	3,325	3,517
TY	TY3	71	94	233	368	499	628	754	878	999	1,118	1,234	1,347	1,458	1,568	1,677	1,787	1,898	2,008	2,119

2.50% Capital Escalation Rate

2011 CR	281	454	428	405	384	364	344	325	305	285	266	246	231	221	211	200	190	180
2012 CR		288	465	439	415	394	373	353	333	313	293	272	252	237	226	216	205	195
2013 CR			295	477	450	426	403	382	362	341	321	300	279	259	243	232	221	210
2014 CR				303	489	461	436	413	392	371	350	329	307	286	265	249	238	227
2015 CR					310	501	473	447	424	402	380	358	337	315	293	272	255	244
2016 CR						318	513	485	459	434	412	390	367	345	323	301	279	262
2017 CR							326	526	497	470	445	422	399	377	354	331	308	286
2018 CR								334	539	509	482	456	433	409	386	363	339	316
2019 CR									342	553	522	494	468	444	420	396	372	348
2020 CR										351	567	535	506	479	455	430	406	381
2021 CR											360	581	548	519	491	466	441	416
2022 CR												369	595	562	532	504	478	452
2023 CR													378	610	576	545	516	490
2024 CR														387	625	591	559	529
2025 CR															397	641	605	573
2026 CR																407	657	621
2027 CR																	417	673
2028 CR																		428
2029 CR																		
2030 CR																		
2031 CR																		
2032 CR																		
2033 CR																		
2034 CR																		
2035 CR																		
2036 CR																		
2037 CR																		
2038 CR																		

$000

Station	Unit	Capacity	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
	2039	CR																		
	2040	CR																		
	2011	MC	1,499	2,188	2,076	1,972	1,877	1,788	1,703	1,617	1,532	1,447	1,361	1,276	1,191	1,128	1,089	1,049	1,010	970
	2012	MC		1,536	2,243	2,128	2,021	1,923	1,833	1,745	1,658	1,570	1,483	1,395	1,308	1,221	1,157	1,116	1,075	1,035
	2013	MC			1,575	2,299	2,181	2,072	1,972	1,878	1,789	1,699	1,610	1,520	1,430	1,341	1,251	1,185	1,144	1,102
	2014	MC				1,614	2,357	2,235	2,124	2,021	1,925	1,834	1,742	1,650	1,558	1,466	1,374	1,282	1,215	1,173
	2015	MC					1,655	2,416	2,291	2,177	2,071	1,974	1,879	1,785	1,691	1,597	1,503	1,409	1,314	1,245
	2016	MC						1,696	2,476	2,348	2,231	2,123	2,023	1,926	1,830	1,733	1,637	1,540	1,444	1,347
	2017	MC							1,738	2,538	2,407	2,287	2,176	2,073	1,975	1,876	1,777	1,678	1,579	1,480
	2018	MC								1,782	2,601	2,467	2,344	2,231	2,125	2,024	1,922	1,821	1,720	1,618
	2019	MC									1,826	2,666	2,529	2,403	2,286	2,178	2,075	1,971	1,867	1,763
	2020	MC										1,872	2,733	2,592	2,463	2,344	2,233	2,126	2,020	1,913
	2021	MC											1,919	2,801	2,657	2,524	2,402	2,289	2,180	2,070
	2022	MC												1,967	2,871	2,723	2,588	2,462	2,346	2,234
	2023	MC													2,016	2,943	2,792	2,652	2,524	2,405
	2024	MC														2,066	3,017	2,861	2,719	2,587
	2025	MC															2,118	3,092	2,933	2,787
	2026	MC																2,171	3,170	3,006
	2027	MC																	2,225	3,249
	2028	MC																		2,281
	2029	MC																		
	2030	MC																		
	2031	MC																		
	2032	MC																		
	2033	MC																		
	2034	MC																		
	2035	MC																		
	2036	MC																		
	2037	MC																		
	2038	MC																		
	2039	MC																		
	2040	MC																		
	2011	TC	281	368	350	333	318	304	291	278	264	251	238	225	211	203	198	193	189	184
	2012	TC		288	377	358	341	326	312	298	284	271	257	244	230	217	208	203	198	193
	2013	TC			295	387	367	350	334	319	305	292	278	264	250	236	222	213	208	203
	2014	TC				303	396	376	359	342	327	313	299	285	270	256	242	228	218	213
	2015	TC					310	406	386	368	351	336	321	306	292	277	263	248	233	224
	2016	TC						318	416	396	377	360	344	329	314	299	284	269	254	239
	2017	TC							326	427	405	386	369	353	337	322	307	291	276	261
	2018	TC								334	437	416	396	378	361	346	330	314	298	283
	2019	TC									342	448	426	406	387	370	354	338	322	306
	2020	TC										351	460	437	416	397	380	363	347	330
	2021	TC											360	471	447	426	407	389	372	355
	2022	TC												369	483	459	437	417	399	381
	2023	TC													378	495	470	448	427	409
	2024	TC														387	507	482	459	438
	2025	TC															397	520	494	470
	2026	TC																407	533	506
	2027	TC																	417	546
	2028	TC																		428
	2029	TC																		

$000

Station	Unit	Capacity	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
	2030	TC																		
	2031	TC																		
	2032	TC																		
	2033	TC																		
	2034	TC																		
	2035	TC																		
	2036	TC																		
	2037	TC																		
	2038	TC																		
	2039	TC																		
	2040	TC																		
	2011	GH	2,061	2,756	2,617	2,492	2,377	2,272	2,171	2,070	1,970	1,869	1,768	1,667	1,567	1,498	1,460	1,422	1,384	1,346
	2012	GH		2,113	2,825	2,683	2,554	2,436	2,328	2,225	2,122	2,019	1,916	1,812	1,709	1,606	1,535	1,496	1,458	1,419
	2013	GH			2,165	2,895	2,750	2,618	2,497	2,387	2,281	2,175	2,069	1,963	1,858	1,752	1,646	1,573	1,534	1,494
	2014	GH				2,219	2,968	2,819	2,683	2,560	2,446	2,338	2,229	2,121	2,013	1,904	1,796	1,687	1,613	1,572
	2015	GH					2,275	3,042	2,889	2,750	2,623	2,507	2,396	2,285	2,174	2,063	1,952	1,841	1,729	1,653
	2016	GH						2,332	3,118	2,961	2,819	2,689	2,570	2,456	2,342	2,228	2,114	2,001	1,887	1,773
	2017	GH							2,390	3,196	3,035	2,889	2,756	2,634	2,518	2,401	2,284	2,167	2,051	1,934
	2018	GH								2,450	3,276	3,111	2,962	2,825	2,700	2,581	2,461	2,341	2,221	2,102
	2019	GH									2,511	3,358	3,189	3,036	2,896	2,768	2,645	2,522	2,400	2,277
	2020	GH										2,574	3,442	3,269	3,112	2,968	2,837	2,711	2,585	2,460
	2021	GH											2,638	3,528	3,350	3,189	3,042	2,908	2,779	2,650
	2022	GH												2,704	3,616	3,434	3,269	3,119	2,981	2,848
	2023	GH													2,772	3,706	3,520	3,351	3,196	3,055
	2024	GH														2,841	3,799	3,608	3,435	3,276
	2025	GH															2,912	3,894	3,698	3,521
	2026	GH																2,985	3,991	3,791
	2027	GH																	3,060	4,091
	2028	GH																		3,136
	2029	GH																		
	2030	GH																		
	2031	GH																		
	2032	GH																		
	2033	GH																		
	2034	GH																		
	2035	GH																		
	2036	GH																		
	2037	GH																		
	2038	GH																		
	2039	GH																		
	2040	GH																		
	2011	BR	468	629	595	565	538	513	489	464	440	415	391	367	350	341	332	323	315	306
	2012	BR		480	645	610	579	551	526	501	476	451	426	401	376	359	350	341	332	323
	2013	BR			492	661	625	594	565	539	513	488	462	436	411	385	368	358	349	340
	2014	BR				504	677	641	609	579	552	526	500	474	447	421	395	377	367	358
	2015	BR					517	694	657	624	594	566	539	512	485	458	432	405	386	377
	2016	BR						530	712	674	639	608	580	553	525	498	470	442	415	396
	2017	BR							543	729	690	655	624	595	567	538	510	482	453	425
	2018	BR								557	748	708	672	639	610	581	552	523	494	465
	2019	BR									571	766	725	688	655	625	595	566	536	506
	2020	BR										585	785	743	706	672	641	610	580	549

$000

Station	Unit	Capacity	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
	2021	BR											600	805	762	723	688	657	625	594
	2022	BR												615	825	781	741	706	673	641
	2023	BR													630	846	801	760	723	690
	2024	BR														646	867	821	779	741
	2025	BR															662	889	841	798
	2026	BR																678	911	862
	2027	BR																	695	934
	2028	BR																		713
	2029	BR																		
	2030	BR																		
	2031	BR																		
	2032	BR																		
	2033	BR																		
	2034	BR																		
	2035	BR																		
	2036	BR																		
	2037	BR																		
	2038	BR																		
	2039	BR																		
	2040	BR																		
	2011	GR	94	134	127	120	114	108	103	98	92	87	81	76	72	70	68	65	63	61
	2012	GR		96	137	130	123	117	111	106	100	95	89	83	78	74	72	69	67	65
	2013	GR			98	141	133	126	120	114	108	103	97	91	86	80	76	73	71	69
	2014	GR				101	144	136	129	123	117	111	105	99	94	88	82	78	75	73
	2015	GR					103	148	140	132	126	120	114	108	102	96	90	84	80	77
	2016	GR						106	151	143	136	129	123	117	111	104	98	92	86	82
	2017	GR							109	155	147	139	132	126	120	113	107	101	94	88
	2018	GR								111	159	150	143	135	129	123	116	110	103	97
	2019	GR									114	163	154	146	139	132	126	119	112	106
	2020	GR										117	167	158	150	142	135	129	122	115
	2021	GR											120	171	162	154	146	139	132	125
	2022	GR												123	176	166	157	150	142	135
	2023	GR													126	180	170	161	153	146
	2024	GR														129	184	174	165	157
	2025	GR															132	189	179	169
	2026	GR																136	194	183
	2027	GR																	139	199
	2028	GR																		143
	2029	GR																		
	2030	GR																		
	2031	GR																		
	2032	GR																		
	2033	GR																		
	2034	GR																		
	2035	GR																		
	2036	GR																		
	2037	GR																		
	2038	GR																		
	2039	GR																		
	2040	GR																		
	2011	TY	94	137	129	122	116	111	105	99	94	88	83	77	73	71	68	66	63	61

			$000																
Station	Unit	Capacity	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
	2012	TY		96	140	132	125	119	113	108	102	96	90	85	79	75	72	70	67	65
	2013	TY			98	143	136	129	122	116	110	104	99	93	87	81	77	74	71	69
	2014	TY				101	147	139	132	125	119	113	107	101	95	89	83	79	76	73
	2015	TY					103	151	143	135	128	122	116	110	104	97	91	85	81	78
	2016	TY						106	154	146	138	131	125	119	112	106	100	93	87	83
	2017	TY							109	158	150	142	135	128	122	115	109	102	96	89
	2018	TY								111	162	153	145	138	131	125	118	111	105	98
	2019	TY									114	166	157	149	142	135	128	121	114	107
	2020	TY										117	171	161	153	145	138	131	124	117
	2021	TY											120	175	165	157	149	141	134	127
	2022	TY												123	179	169	161	152	145	138
	2023	TY													126	184	174	165	156	149
	2024	TY														129	188	178	169	160
	2025	TY															132	193	182	173
	2026	TY																136	198	187
	2027	TY																	139	203
	2028	TY																		143
	2029	TY																		
	2030	TY																		
	2031	TY																		
	2032	TY																		
	2033	TY																		
	2034	TY																		
	2035	TY																		
	2036	TY																		
	2037	TY																		
	2038	TY																		
	2039	TY																		
	2040	TY																		

Station	Unit	Capacity	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
BR	BR1	101	1,560	1,642	1,724	1,807	1,891	1,975	2,061	2,147	2,234	2,322	2,411	2,501	2,446	2,340	2,239	2,145	2,055	1,969
BR	BR2	167	2,579	2,714	2,850	2,988	3,126	3,266	3,407	3,550	3,694	3,839	3,986	4,135	4,045	3,868	3,703	3,546	3,397	3,255
BR	BR3	416	6,425	6,761	7,100	7,442	7,787	8,136	8,488	8,843	9,202	9,564	9,930	10,300	10,076	9,636	9,223	8,833	8,463	8,109
CR	CR4	155	1,974	2,023	2,073	2,125	2,178	2,233	2,289	2,346	2,405	2,465	2,526	2,589	2,492	2,292	2,102	1,921	1,747	1,580
CR	CR5	168	2,139	2,193	2,247	2,304	2,361	2,420	2,481	2,543	2,606	2,671	2,738	2,807	2,701	2,484	2,278	2,082	1,893	1,713
CR	CR6	240	3,056	3,132	3,210	3,291	3,373	3,457	3,544	3,632	3,723	3,816	3,912	4,009	3,858	3,549	3,255	2,974	2,705	2,447
GH	GH1	475	11,594	12,199	12,809	13,425	14,048	14,676	15,311	15,953	16,601	17,256	17,918	18,587	18,193	17,419	16,688	15,994	15,334	14,702
GH	GH2	484	11,814	12,430	13,052	13,680	14,314	14,954	15,601	16,255	16,915	17,583	18,257	18,939	18,537	17,749	17,004	16,297	15,624	14,981
GH	GH3	480	11,716	12,327	12,944	13,567	14,196	14,831	15,472	16,121	16,775	17,437	18,106	18,782	18,384	17,602	16,863	16,163	15,495	14,857
GH	GH4	479	11,692	12,302	12,917	13,538	14,166	14,800	15,440	16,087	16,741	17,401	18,069	18,743	18,346	17,565	16,828	16,129	15,463	14,826
GR	GR3	68	918	964	1,011	1,057	1,104	1,152	1,199	1,247	1,295	1,343	1,377	1,411	1,364	1,281	1,203	1,128	1,056	988
GR	GR4	95	1,282	1,347	1,412	1,477	1,543	1,609	1,675	1,742	1,809	1,876	1,923	1,971	1,906	1,790	1,680	1,575	1,476	1,380
MC	MC1	303	7,421	7,790	8,160	8,531	8,903	9,277	9,651	10,027	10,278	10,535	10,798	11,068	10,698	10,020	9,375	8,758	8,166	7,598
MC	MC2	301	7,372	7,739	8,106	8,475	8,845	9,216	9,588	9,961	10,210	10,465	10,727	10,995	10,627	9,954	9,313	8,700	8,112	7,548
MC	MC3	391	9,576	10,052	10,530	11,009	11,489	11,971	12,455	12,940	13,263	13,595	13,934	14,283	13,805	12,931	12,097	11,301	10,538	9,805
MC	MC4	477	11,683	12,263	12,846	13,430	14,016	14,604	15,194	15,786	16,180	16,585	16,999	17,424	16,841	15,775	14,758	13,787	12,856	11,962
TC	TC1	383	2,588	2,725	2,863	3,002	3,144	3,286	3,431	3,577	3,725	3,875	4,026	4,180	4,093	3,927	3,771	3,623	3,483	3,349
TC	TC2	549	3,710	3,906	4,104	4,304	4,506	4,711	4,918	5,127	5,339	5,554	5,771	5,991	5,866	5,629	5,405	5,193	4,992	4,801
TY	TY3	71	2,230	2,341	2,453	2,565	2,678	2,790	2,904	3,017	3,092	3,170	3,249	3,330	3,217	3,011	2,815	2,629	2,451	2,281

2.50%

2011	CR	169	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2012	CR	184	174	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2013	CR	200	189	178	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2014	CR	216	205	194	182	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2015	CR	232	221	210	198	187	0	0	0	0	0	0	0	0	0	0	0	0	0
2016	CR	250	238	227	215	203	192	0	0	0	0	0	0	0	0	0	0	0	0
2017	CR	268	256	244	232	220	208	196	0	0	0	0	0	0	0	0	0	0	0
2018	CR	293	275	263	250	238	226	214	201	0	0	0	0	0	0	0	0	0	0
2019	CR	324	300	282	269	257	244	232	219	206	0	0	0	0	0	0	0	0	0
2020	CR	357	332	307	289	276	263	250	237	224	212	0	0	0	0	0	0	0	0
2021	CR	391	365	340	315	296	283	270	256	243	230	217	0	0	0	0	0	0	0
2022	CR	426	400	375	349	323	303	290	276	263	249	236	222	0	0	0	0	0	0
2023	CR	463	437	410	384	358	331	311	297	283	269	256	242	228	0	0	0	0	0
2024	CR	502	475	448	421	394	366	339	319	305	290	276	262	248	234	0	0	0	0
2025	CR	542	514	487	459	431	403	376	348	327	312	298	283	268	254	239	0	0	0
2026	CR	587	556	527	499	470	442	413	385	357	335	320	305	290	275	260	245	0	0
2027	CR	636	602	570	540	511	482	453	424	395	365	343	328	313	297	282	267	252	0
2028	CR	690	652	617	584	554	524	494	464	434	404	375	352	336	320	305	289	273	258
2029	CR	438	708	668	632	599	568	537	506	476	445	415	384	361	345	329	312	296	280
2030	CR		449	725	685	648	614	582	551	519	488	456	425	394	370	353	337	320	304
2031	CR			461	743	702	664	629	596	564	532	500	468	436	403	379	362	345	328
2032	CR				472	762	720	681	645	611	578	545	512	479	446	414	388	371	354
2033	CR					484	781	738	698	661	627	593	559	525	491	458	424	398	380
2034	CR						496	800	756	715	677	642	608	573	538	504	469	434	408
2035	CR							508	820	775	733	694	658	623	587	552	516	481	445
2036	CR								521	841	794	751	712	675	638	602	566	529	493
2037	CR									534	862	814	770	730	692	654	617	580	542
2038	CR										547	884	835	789	748	709	671	633	594

Station	Unit	Capacity	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
	2039	CR											561	906	855	809	766	727	688	648
	2040	CR												575	928	877	829	786	745	705
	2011	MC	931	891	851	812	772	733	693	654	0	0	0	0	0	0	0	0	0	0
	2012	MC	994	954	913	873	832	792	751	711	670	0	0	0	0	0	0	0	0	0
	2013	MC	1,061	1,019	978	936	895	853	811	770	728	687	0	0	0	0	0	0	0	0
	2014	MC	1,130	1,087	1,045	1,002	960	917	874	832	789	747	704	0	0	0	0	0	0	0
	2015	MC	1,202	1,158	1,115	1,071	1,027	984	940	896	853	809	765	722	0	0	0	0	0	0
	2016	MC	1,277	1,232	1,187	1,142	1,098	1,053	1,008	963	919	874	829	784	740	0	0	0	0	0
	2017	MC	1,381	1,309	1,263	1,217	1,171	1,125	1,079	1,033	987	942	896	850	804	758	0	0	0	0
	2018	MC	1,517	1,415	1,341	1,294	1,247	1,200	1,153	1,106	1,059	1,012	965	918	871	824	777	0	0	0
	2019	MC	1,659	1,555	1,451	1,375	1,327	1,278	1,230	1,182	1,134	1,086	1,037	989	941	893	845	797	0	0
	2020	MC	1,807	1,700	1,594	1,487	1,409	1,360	1,310	1,261	1,212	1,162	1,113	1,063	1,014	965	915	866	816	0
	2021	MC	1,961	1,852	1,743	1,634	1,524	1,444	1,394	1,343	1,292	1,242	1,191	1,141	1,090	1,039	989	938	887	837
	2022	MC	2,122	2,010	1,898	1,786	1,674	1,562	1,480	1,429	1,377	1,325	1,273	1,221	1,169	1,117	1,065	1,013	962	910
	2023	MC	2,290	2,175	2,060	1,946	1,831	1,716	1,601	1,518	1,464	1,411	1,358	1,305	1,252	1,198	1,145	1,092	1,039	986
	2024	MC	2,465	2,347	2,230	2,112	1,994	1,877	1,759	1,642	1,555	1,501	1,446	1,392	1,337	1,283	1,228	1,174	1,119	1,065
	2025	MC	2,651	2,526	2,406	2,285	2,165	2,044	1,924	1,803	1,683	1,594	1,538	1,483	1,427	1,371	1,315	1,259	1,203	1,147
	2026	MC	2,856	2,718	2,589	2,466	2,342	2,219	2,095	1,972	1,848	1,725	1,634	1,577	1,520	1,462	1,405	1,348	1,290	1,233
	2027	MC	3,081	2,928	2,786	2,654	2,528	2,401	2,274	2,148	2,021	1,894	1,768	1,675	1,616	1,558	1,499	1,440	1,381	1,323
	2028	MC	3,330	3,158	3,001	2,855	2,721	2,591	2,461	2,331	2,201	2,072	1,942	1,812	1,717	1,657	1,597	1,536	1,476	1,416
	2029	MC	2,338	3,413	3,237	3,076	2,927	2,789	2,656	2,522	2,389	2,256	2,123	1,990	1,857	1,760	1,698	1,636	1,575	1,513
	2030	MC		2,396	3,499	3,318	3,153	3,000	2,858	2,722	2,586	2,449	2,313	2,176	2,040	1,904	1,804	1,741	1,677	1,614
	2031	MC			2,456	3,586	3,401	3,232	3,075	2,930	2,790	2,650	2,510	2,371	2,231	2,091	1,951	1,849	1,784	1,719
	2032	MC				2,518	3,676	3,486	3,312	3,152	3,003	2,860	2,716	2,573	2,430	2,287	2,143	2,000	1,895	1,829
	2033	MC					2,580	3,768	3,573	3,395	3,231	3,078	2,931	2,784	2,637	2,491	2,344	2,197	2,050	1,943
	2034	MC						2,645	3,862	3,663	3,480	3,311	3,155	3,004	2,854	2,703	2,553	2,402	2,252	2,101
	2035	MC							2,711	3,958	3,754	3,567	3,394	3,234	3,080	2,925	2,771	2,617	2,462	2,308
	2036	MC								2,779	4,057	3,848	3,656	3,479	3,315	3,157	2,998	2,840	2,682	2,524
	2037	MC									2,848	4,159	3,944	3,748	3,566	3,398	3,236	3,073	2,911	2,749
	2038	MC										2,920	4,263	4,043	3,841	3,655	3,483	3,316	3,150	2,984
	2039	MC											2,993	4,369	4,144	3,937	3,746	3,570	3,399	3,229
	2040	MC												3,067	4,478	4,248	4,036	3,840	3,659	3,484
	2011	TC	179	175	170	165	161	156	152	147	142	138	133	128	124	119	114	110	105	101
	2012	TC	189	184	179	174	170	165	160	155	151	146	141	136	132	127	122	117	113	108
	2013	TC	198	193	188	184	179	174	169	164	159	154	149	145	140	135	130	125	120	115
	2014	TC	208	203	198	193	188	183	178	173	168	163	158	153	148	143	138	133	128	123
	2015	TC	218	213	208	203	198	193	188	183	178	172	167	162	157	152	147	142	137	131
	2016	TC	229	224	219	213	208	203	198	192	187	182	177	171	166	161	156	150	145	140
	2017	TC	245	235	230	224	219	213	208	203	197	192	187	181	176	170	165	160	154	149
	2018	TC	267	251	241	235	230	224	219	213	208	202	197	191	186	180	175	169	164	158
	2019	TC	290	274	258	247	241	235	230	224	219	213	207	202	196	190	185	179	173	168
	2020	TC	314	297	281	264	253	247	241	236	230	224	218	212	207	201	195	189	183	178
	2021	TC	338	321	305	288	271	259	253	247	241	236	230	224	218	212	206	200	194	188
	2022	TC	364	347	329	312	295	277	266	260	254	248	241	235	229	223	217	211	205	199
	2023	TC	391	373	355	338	320	302	284	272	266	260	254	247	241	235	229	223	216	210
	2024	TC	419	401	383	364	346	328	310	292	279	273	266	260	254	247	241	234	228	222
	2025	TC	449	429	411	392	373	355	336	317	299	286	280	273	267	260	253	247	240	234
	2026	TC	482	460	440	421	402	383	364	345	325	306	293	287	280	273	266	260	253	246
	2027	TC	519	494	472	451	432	412	392	373	353	334	314	301	294	287	280	273	266	259
	2028	TC	560	532	507	484	463	442	422	402	382	362	342	322	308	301	294	287	280	273
	2029	TC	438	574	545	519	496	474	453	433	412	392	371	350	330	316	309	301	294	287

Station	Unit	Capacity	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
	2030	TC		449	588	559	532	508	486	465	444	423	401	380	359	338	324	316	309	302
	2031	TC			461	603	573	546	521	498	476	455	433	411	390	368	347	332	324	317
	2032	TC				472	618	587	559	534	511	488	466	444	422	400	377	355	340	332
	2033	TC					484	633	602	573	547	523	501	478	455	432	410	387	364	349
	2034	TC						496	649	617	588	561	536	513	490	466	443	420	396	373
	2035	TC							508	665	632	602	575	550	526	502	478	454	430	406
	2036	TC								521	682	648	617	589	564	539	515	490	466	441
	2037	TC									534	699	664	633	604	578	553	527	502	477
	2038	TC										547	717	681	648	619	592	566	541	515
	2039	TC											561	735	698	665	634	607	580	554
	2040	TC												575	753	715	681	650	622	595
	2011	GH	1,309	1,271	1,233	1,195	1,158	1,120	1,082	1,044	1,007	969	931	893	856	818	780	742	704	667
	2012	GH	1,380	1,341	1,303	1,264	1,225	1,187	1,148	1,109	1,070	1,032	993	954	916	877	838	800	761	722
	2013	GH	1,454	1,415	1,375	1,335	1,296	1,256	1,216	1,177	1,137	1,097	1,058	1,018	978	939	899	859	819	780
	2014	GH	1,531	1,491	1,450	1,409	1,369	1,328	1,287	1,247	1,206	1,165	1,125	1,084	1,043	1,003	962	921	881	840
	2015	GH	1,611	1,570	1,528	1,486	1,445	1,403	1,361	1,320	1,278	1,236	1,194	1,153	1,111	1,069	1,028	986	944	903
	2016	GH	1,694	1,652	1,609	1,566	1,523	1,481	1,438	1,395	1,353	1,310	1,267	1,224	1,182	1,139	1,096	1,053	1,011	968
	2017	GH	1,817	1,737	1,693	1,649	1,605	1,562	1,518	1,474	1,430	1,386	1,343	1,299	1,255	1,211	1,167	1,124	1,080	1,036
	2018	GH	1,982	1,862	1,780	1,735	1,690	1,645	1,601	1,556	1,511	1,466	1,421	1,376	1,331	1,286	1,241	1,197	1,152	1,107
	2019	GH	2,154	2,032	1,909	1,825	1,779	1,733	1,687	1,641	1,595	1,549	1,503	1,457	1,410	1,364	1,318	1,272	1,226	1,180
	2020	GH	2,334	2,208	2,082	1,957	1,870	1,823	1,776	1,729	1,682	1,634	1,587	1,540	1,493	1,446	1,399	1,351	1,304	1,257
	2021	GH	2,521	2,392	2,263	2,134	2,006	1,917	1,869	1,820	1,772	1,724	1,675	1,627	1,579	1,530	1,482	1,434	1,385	1,337
	2022	GH	2,716	2,584	2,452	2,320	2,188	2,056	1,965	1,915	1,866	1,816	1,767	1,717	1,668	1,618	1,569	1,519	1,469	1,420
	2023	GH	2,920	2,784	2,649	2,513	2,378	2,243	2,107	2,014	1,963	1,912	1,862	1,811	1,760	1,709	1,659	1,608	1,557	1,506
	2024	GH	3,131	2,993	2,854	2,715	2,576	2,437	2,299	2,160	2,064	2,012	1,960	1,908	1,856	1,804	1,752	1,700	1,648	1,596
	2025	GH	3,358	3,210	3,067	2,925	2,783	2,641	2,498	2,356	2,214	2,116	2,063	2,009	1,956	1,903	1,849	1,796	1,742	1,689
	2026	GH	3,609	3,442	3,290	3,144	2,998	2,852	2,707	2,561	2,415	2,269	2,169	2,114	2,060	2,005	1,950	1,895	1,841	1,786
	2027	GH	3,886	3,699	3,528	3,372	3,223	3,073	2,924	2,774	2,625	2,475	2,326	2,223	2,167	2,111	2,055	1,999	1,943	1,887
	2028	GH	4,193	3,983	3,791	3,617	3,456	3,303	3,150	2,997	2,844	2,690	2,537	2,384	2,279	2,221	2,164	2,106	2,049	1,991
	2029	GH	3,214	4,298	4,082	3,886	3,707	3,543	3,386	3,229	3,072	2,915	2,758	2,601	2,444	2,336	2,277	2,218	2,159	2,100
	2030	GH		3,295	4,406	4,184	3,983	3,800	3,631	3,470	3,310	3,149	2,988	2,827	2,666	2,505	2,394	2,334	2,273	2,213
	2031	GH			3,377	4,516	4,289	4,083	3,895	3,722	3,557	3,392	3,227	3,062	2,897	2,732	2,567	2,454	2,392	2,330
	2032	GH				3,462	4,629	4,396	4,185	3,992	3,815	3,646	3,477	3,308	3,139	2,970	2,801	2,632	2,515	2,452
	2033	GH					3,548	4,744	4,506	4,289	4,092	3,911	3,737	3,564	3,391	3,217	3,044	2,871	2,697	2,578
	2034	GH						3,637	4,863	4,619	4,397	4,194	4,008	3,831	3,653	3,475	3,298	3,120	2,942	2,765
	2035	GH							3,728	4,984	4,734	4,507	4,299	4,109	3,927	3,744	3,562	3,380	3,198	3,016
	2036	GH								3,821	5,109	4,852	4,619	4,406	4,211	4,025	3,838	3,651	3,465	3,278
	2037	GH									3,917	5,237	4,974	4,735	4,517	4,317	4,125	3,934	3,743	3,551
	2038	GH										4,014	5,368	5,098	4,853	4,629	4,425	4,228	4,032	3,836
	2039	GH											4,115	5,502	5,226	4,974	4,745	4,535	4,334	4,133
	2040	GH												4,218	5,639	5,356	5,099	4,864	4,649	4,443
	2011	BR	297	288	279	271	262	253	244	235	226	218	209	200	191	182	173	165	156	147
	2012	BR	313	304	295	286	277	268	259	250	241	232	223	214	205	196	187	178	169	160
	2013	BR	331	321	312	303	293	284	275	266	256	247	238	229	219	210	201	191	182	173
	2014	BR	348	339	329	320	310	301	291	282	272	263	253	244	234	225	215	206	196	187
	2015	BR	367	357	347	338	328	318	308	299	289	279	269	260	250	240	230	221	211	201
	2016	BR	386	376	366	356	346	336	326	316	306	296	286	276	266	256	246	236	226	216
	2017	BR	406	396	385	375	365	355	344	334	324	314	303	293	283	273	263	252	242	232
	2018	BR	436	416	406	395	385	374	364	353	343	332	322	311	301	290	280	269	259	248
	2019	BR	476	447	426	416	405	394	383	373	362	351	340	330	319	308	297	287	276	265
	2020	BR	519	488	458	437	426	415	404	393	382	371	360	349	338	327	316	305	294	283

Station	Unit	Capacity	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
	2021	BR	563	532	500	469	448	437	425	414	403	391	380	369	358	346	335	324	312	301
	2022	BR	609	577	545	513	481	459	448	436	424	413	401	390	378	367	355	343	332	320
	2023	BR	657	624	591	559	526	493	471	459	447	435	423	411	399	388	376	364	352	340
	2024	BR	707	673	640	606	573	539	505	482	470	458	446	434	422	409	397	385	373	361
	2025	BR	760	725	690	656	621	587	552	518	495	482	470	457	445	432	420	407	395	382
	2026	BR	818	779	743	708	672	637	602	566	531	507	494	481	469	456	443	430	417	405
	2027	BR	884	839	798	761	725	689	653	617	580	544	520	506	493	480	467	454	441	428
	2028	BR	957	906	860	818	781	743	706	669	632	595	558	533	519	506	492	479	465	452
	2029	BR	731	981	928	881	839	800	762	724	686	648	610	572	546	532	518	505	491	477
	2030	BR		749	1,005	952	903	860	820	781	742	703	664	625	586	559	545	531	517	503
	2031	BR			768	1,031	975	926	881	841	801	761	721	681	641	601	573	559	545	530
	2032	BR				787	1,056	1,000	949	903	862	821	780	739	698	657	616	588	573	558
	2033	BR					806	1,083	1,025	973	926	883	841	799	757	715	673	631	603	587
	2034	BR						827	1,110	1,050	997	949	905	862	819	776	733	690	647	618
	2035	BR							847	1,138	1,077	1,022	973	928	884	840	795	751	707	663
	2036	BR								868	1,166	1,104	1,048	997	951	906	861	815	770	725
	2037	BR									890	1,195	1,131	1,074	1,022	975	928	882	836	789
	2038	BR										912	1,225	1,160	1,101	1,047	999	952	904	857
	2039	BR											935	1,256	1,189	1,128	1,074	1,024	975	927
	2040	BR												959	1,287	1,218	1,156	1,100	1,050	1,000
	2011	GR	58	56	54	52	49	47	45	42	40	38	0	0	0	0	0	0	0	0
	2012	GR	62	60	58	55	53	51	48	46	44	41	39	0	0	0	0	0	0	0
	2013	GR	66	64	61	59	57	54	52	49	47	45	42	40	0	0	0	0	0	0
	2014	GR	70	68	65	63	61	58	56	53	51	48	46	43	41	0	0	0	0	0
	2015	GR	75	72	70	67	65	62	60	57	54	52	49	47	44	42	0	0	0	0
	2016	GR	79	77	74	71	69	66	64	61	58	56	53	51	48	45	43	0	0	0
	2017	GR	84	81	78	76	73	70	68	65	63	60	57	55	52	49	47	44	0	0
	2018	GR	90	86	83	80	78	75	72	70	67	64	61	59	56	53	50	48	45	0
	2019	GR	99	93	88	85	82	80	77	74	71	68	66	63	60	57	55	52	49	46
	2020	GR	108	102	95	90	87	84	82	79	76	73	70	67	64	62	59	56	53	50
	2021	GR	118	111	104	97	92	90	87	84	81	78	75	72	69	66	63	60	57	54
	2022	GR	128	121	114	107	100	95	92	89	86	83	80	77	74	71	68	65	62	59
	2023	GR	139	131	124	117	110	102	97	94	91	88	85	82	79	76	72	69	66	63
	2024	GR	150	142	135	127	120	112	105	100	96	93	90	87	84	81	77	74	71	68
	2025	GR	161	153	146	138	130	123	115	107	102	99	96	92	89	86	83	79	76	73
	2026	GR	174	165	157	149	141	134	126	118	110	105	101	98	95	91	88	85	81	78
	2027	GR	188	178	169	161	153	145	137	129	121	113	107	104	100	97	94	90	87	83
	2028	GR	204	193	183	173	165	157	149	140	132	124	116	110	106	103	99	96	92	89
	2029	GR	146	209	197	187	178	169	161	152	144	135	127	119	113	109	105	102	98	95
	2030	GR		150	214	202	192	182	173	165	156	148	139	130	122	115	112	108	104	101
	2031	GR			154	219	207	197	187	178	169	160	151	142	133	125	118	115	111	107
	2032	GR				157	225	212	201	191	182	173	164	155	146	137	128	121	117	114
	2033	GR					161	230	218	206	196	187	177	168	159	150	140	131	124	120
	2034	GR						165	236	223	212	201	191	182	172	163	153	144	134	127
	2035	GR							169	242	229	217	206	196	186	177	167	157	147	138
	2036	GR								174	248	235	222	211	201	191	181	171	161	151
	2037	GR									178	254	240	228	217	206	196	186	175	165
	2038	GR										182	261	246	234	222	211	201	190	180
	2039	GR											187	267	253	239	228	217	206	195
	2040	GR												192	274	259	245	233	222	211
	2011	TY	58	56	53	51	48	46	43	41	0	0	0	0	0	0	0	0	0	0

Station	Unit	Capacity	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
	2012	TY	62	60	57	55	52	49	47	44	42	0	0	0	0	0	0	0	0	0
	2013	TY	66	64	61	59	56	53	51	48	46	43	0	0	0	0	0	0	0	0
	2014	TY	71	68	65	63	60	57	55	52	49	47	44	0	0	0	0	0	0	0
	2015	TY	75	72	70	67	64	61	59	56	53	51	48	45	0	0	0	0	0	0
	2016	TY	80	77	74	71	69	66	63	60	57	55	52	49	46	0	0	0	0	0
	2017	TY	85	82	79	76	73	70	67	65	62	59	56	53	50	47	0	0	0	0
	2018	TY	92	87	84	81	78	75	72	69	66	63	60	57	54	52	49	0	0	0
	2019	TY	101	94	89	86	83	80	77	74	71	68	65	62	59	56	53	50	0	0
	2020	TY	110	103	96	91	88	85	82	79	76	73	70	66	63	60	57	54	51	0
	2021	TY	120	113	106	99	93	90	87	84	81	78	74	71	68	65	62	59	55	52
	2022	TY	130	123	116	108	101	96	93	89	86	83	80	76	73	70	67	63	60	57
	2023	TY	141	134	126	119	111	104	98	95	92	88	85	82	78	75	72	68	65	62
	2024	TY	152	145	137	129	122	114	106	101	97	94	90	87	84	80	77	73	70	67
	2025	TY	164	156	148	140	133	125	117	109	103	100	96	93	89	86	82	79	75	72
	2026	TY	177	168	160	152	144	136	128	120	112	106	102	99	95	91	88	84	81	77
	2027	TY	192	182	172	164	156	148	139	131	123	114	108	105	101	97	94	90	86	83
	2028	TY	208	196	186	177	168	160	151	143	134	126	117	111	107	104	100	96	92	89
	2029	TY	146	213	201	191	181	172	164	155	146	138	129	120	114	110	106	102	98	95
	2030	TY		150	218	206	196	186	177	168	159	150	141	132	123	117	113	109	105	101
	2031	TY			154	224	212	201	190	181	172	163	154	145	135	126	120	116	112	107
	2032	TY				157	229	217	206	195	186	176	167	158	148	139	129	123	118	114
	2033	TY					161	235	222	211	200	190	181	171	161	152	142	133	126	121
	2034	TY						165	241	228	216	205	195	185	175	165	156	146	136	129
	2035	TY							169	247	234	221	210	200	190	180	170	160	149	139
	2036	TY								174	253	239	227	215	205	195	184	174	164	153
	2037	TY									178	259	245	233	221	210	199	189	178	168
	2038	TY										182	266	252	238	226	215	204	194	183
	2039	TY											187	273	258	244	232	221	210	198
	2040	TY												192	279	264	250	238	226	215

Station	Unit	Capacity	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059
BR	BR1	101	1,867	1,770	1,678	1,591	1,510	1,434	1,361	1,290	1,219	1,149	1,080	1,013	946
BR	BR2	167	3,087	2,926	2,774	2,631	2,496	2,371	2,251	2,132	2,015	1,900	1,787	1,675	1,564
BR	BR3	416	7,689	7,289	6,910	6,553	6,218	5,906	5,607	5,312	5,021	4,733	4,450	4,171	3,897
CR	CR4	155	1,421	1,269	1,125	988	859	738	623	511	402	297	194	95	0
CR	CR5	168	1,540	1,375	1,219	1,071	931	800	675	554	436	322	211	103	0
CR	CR6	240	2,200	1,965	1,741	1,529	1,330	1,143	965	792	623	459	301	148	0
GH	GH1	475	14,098	13,375	12,686	12,033	11,415	10,834	10,291	9,770	9,256	8,749	8,249	7,755	7,269
GH	GH2	484	14,365	13,628	12,927	12,261	11,631	11,039	10,486	9,956	9,432	8,915	8,405	7,902	7,407
GH	GH3	480	14,246	13,516	12,820	12,159	11,535	10,948	10,399	9,873	9,354	8,841	8,336	7,837	7,346
GH	GH4	479	14,217	13,488	12,793	12,134	11,511	10,925	10,378	9,853	9,334	8,823	8,318	7,821	7,331
GR	GR3	68	922	860	801	745	692	643	595	549	504	459	415	373	331
GR	GR4	95	1,288	1,201	1,118	1,040	967	898	832	767	704	641	580	521	462
MC	MC1	303	7,053	6,531	6,033	5,559	5,110	4,687	4,290	3,910	3,538	3,173	2,817	2,468	2,128
MC	MC2	301	7,007	6,488	5,993	5,523	5,077	4,656	4,262	3,884	3,515	3,152	2,798	2,452	2,114
MC	MC3	391	9,102	8,428	7,785	7,174	6,595	6,048	5,536	5,046	4,565	4,095	3,635	3,185	2,746
MC	MC4	477	11,104	10,282	9,498	8,752	8,045	7,379	6,754	6,156	5,570	4,996	4,434	3,886	3,350
TC	TC1	383	3,222	3,101	2,986	2,878	2,777	2,652	2,536	2,425	2,315	2,206	2,099	1,993	1,888
TC	TC2	549	4,618	4,445	4,280	4,125	3,980	3,802	3,636	3,476	3,319	3,163	3,009	2,857	2,706
TY	TY3	71	2,117	1,962	1,814	1,675	1,543	1,420	1,303	1,187	1,074	964	855	749	646

2.50%

2011	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2012	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2013	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2014	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2015	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2016	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2017	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2018	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2019	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2020	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2021	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2022	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2023	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2024	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2025	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2026	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2027	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2028	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2029	CR	264	0	0	0	0	0	0	0	0	0	0	0	0
2030	CR	287	271	0	0	0	0	0	0	0	0	0	0	0
2031	CR	311	294	278	0	0	0	0	0	0	0	0	0	0
2032	CR	336	319	302	285	0	0	0	0	0	0	0	0	0
2033	CR	363	345	327	309	292	0	0	0	0	0	0	0	0
2034	CR	390	372	353	335	317	299	0	0	0	0	0	0	0
2035	CR	418	400	381	362	344	325	306	0	0	0	0	0	0
2036	CR	456	429	410	390	371	352	333	314	0	0	0	0	0
2037	CR	505	468	439	420	400	381	361	342	322	0	0	0	0
2038	CR	556	518	480	450	430	410	390	370	350	330	0	0	0

Station	Unit	Capacity	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059
	2039	CR	609	570	531	492	462	441	421	400	379	359	338	0	0
	2040	CR	665	624	584	544	504	473	452	431	410	389	368	347	0
	2011	MC	0	0	0	0	0	0	0	0	0	0	0	0	0
	2012	MC	0	0	0	0	0	0	0	0	0	0	0	0	0
	2013	MC	0	0	0	0	0	0	0	0	0	0	0	0	0
	2014	MC	0	0	0	0	0	0	0	0	0	0	0	0	0
	2015	MC	0	0	0	0	0	0	0	0	0	0	0	0	0
	2016	MC	0	0	0	0	0	0	0	0	0	0	0	0	0
	2017	MC	0	0	0	0	0	0	0	0	0	0	0	0	0
	2018	MC	0	0	0	0	0	0	0	0	0	0	0	0	0
	2019	MC	0	0	0	0	0	0	0	0	0	0	0	0	0
	2020	MC	0	0	0	0	0	0	0	0	0	0	0	0	0
	2021	MC	0	0	0	0	0	0	0	0	0	0	0	0	0
	2022	MC	858	0	0	0	0	0	0	0	0	0	0	0	0
	2023	MC	932	879	0	0	0	0	0	0	0	0	0	0	0
	2024	MC	1,010	956	901	0	0	0	0	0	0	0	0	0	0
	2025	MC	1,091	1,035	980	924	0	0	0	0	0	0	0	0	0
	2026	MC	1,176	1,119	1,061	1,004	947	0	0	0	0	0	0	0	0
	2027	MC	1,264	1,205	1,147	1,088	1,029	970	0	0	0	0	0	0	0
	2028	MC	1,356	1,296	1,235	1,175	1,115	1,055	995	0	0	0	0	0	0
	2029	MC	1,451	1,390	1,328	1,266	1,205	1,143	1,081	1,020	0	0	0	0	0
	2030	MC	1,551	1,488	1,424	1,361	1,298	1,235	1,172	1,108	1,045	0	0	0	0
	2031	MC	1,655	1,590	1,525	1,460	1,395	1,330	1,266	1,201	1,136	1,071	0	0	0
	2032	MC	1,762	1,696	1,629	1,563	1,497	1,430	1,364	1,297	1,231	1,164	1,098	0	0
	2033	MC	1,874	1,806	1,738	1,670	1,602	1,534	1,466	1,398	1,330	1,262	1,194	1,125	0
	2034	MC	1,991	1,921	1,852	1,782	1,712	1,642	1,572	1,503	1,433	1,363	1,293	1,223	1,154
	2035	MC	2,154	2,041	1,969	1,898	1,826	1,755	1,683	1,612	1,540	1,469	1,397	1,325	1,254
	2036	MC	2,366	2,208	2,092	2,019	1,945	1,872	1,799	1,725	1,652	1,579	1,505	1,432	1,359
	2037	MC	2,587	2,425	2,263	2,144	2,069	1,994	1,919	1,844	1,768	1,693	1,618	1,543	1,468
	2038	MC	2,818	2,652	2,486	2,319	2,198	2,121	2,044	1,967	1,890	1,813	1,736	1,659	1,581
	2039	MC	3,059	2,888	2,718	2,548	2,377	2,253	2,174	2,095	2,016	1,937	1,858	1,779	1,700
	2040	MC	3,310	3,135	2,961	2,786	2,611	2,437	2,309	2,228	2,147	2,066	1,985	1,904	1,823
	2011	TC	96	91	87	82	77	0	0	0	0	0	0	0	0
	2012	TC	103	98	94	89	84	79	0	0	0	0	0	0	0
	2013	TC	111	106	101	96	91	86	81	0	0	0	0	0	0
	2014	TC	118	113	108	103	98	93	88	83	0	0	0	0	0
	2015	TC	126	121	116	111	106	101	96	91	85	0	0	0	0
	2016	TC	135	130	124	119	114	109	103	98	93	88	0	0	0
	2017	TC	144	138	133	127	122	117	111	106	101	95	90	0	0
	2018	TC	153	147	142	136	131	125	120	114	109	103	98	92	0
	2019	TC	162	156	151	145	139	134	128	123	117	111	106	100	94
	2020	TC	172	166	160	155	149	143	137	131	126	120	114	108	102
	2021	TC	182	176	170	164	158	152	147	141	135	129	123	117	111
	2022	TC	193	187	181	175	168	162	156	150	144	138	132	126	120
	2023	TC	204	198	191	185	179	173	166	160	154	148	141	135	129
	2024	TC	215	209	203	196	190	183	177	171	164	158	151	145	139
	2025	TC	227	221	214	208	201	194	188	181	175	168	162	155	149
	2026	TC	240	233	226	219	213	206	199	193	186	179	173	166	159
	2027	TC	253	246	239	232	225	218	211	204	197	191	184	177	170
	2028	TC	266	259	252	245	238	231	224	217	209	202	195	188	181
	2029	TC	280	273	265	258	251	244	236	229	222	215	207	200	193

Station	Unit	Capacity	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059
	2030	TC	294	287	279	272	265	257	250	242	235	227	220	213	205
	2031	TC	309	302	294	286	279	271	264	256	248	241	233	226	218
	2032	TC	325	317	309	301	293	286	278	270	262	255	247	239	231
	2033	TC	341	333	325	317	309	301	293	285	277	269	261	253	245
	2034	TC	357	349	341	333	325	317	308	300	292	284	276	267	259
	2035	TC	382	366	358	350	341	333	324	316	308	299	291	283	274
	2036	TC	417	392	376	367	358	350	341	333	324	315	307	298	290
	2037	TC	452	427	402	385	376	367	358	350	341	332	323	314	306
	2038	TC	489	463	438	412	395	385	376	367	358	349	340	331	322
	2039	TC	528	501	475	449	422	404	395	386	377	367	358	349	340
	2040	TC	568	541	514	487	460	433	414	405	396	386	377	367	358
	2011	GH	629	0	0	0	0	0	0	0	0	0	0	0	0
	2012	GH	683	645	0	0	0	0	0	0	0	0	0	0	0
	2013	GH	740	700	661	0	0	0	0	0	0	0	0	0	0
	2014	GH	799	759	718	677	0	0	0	0	0	0	0	0	0
	2015	GH	861	819	778	736	694	0	0	0	0	0	0	0	0
	2016	GH	925	882	840	797	754	712	0	0	0	0	0	0	0
	2017	GH	992	948	905	861	817	773	729	0	0	0	0	0	0
	2018	GH	1,062	1,017	972	927	882	837	792	748	0	0	0	0	0
	2019	GH	1,134	1,088	1,042	996	950	904	858	812	766	0	0	0	0
	2020	GH	1,210	1,163	1,116	1,068	1,021	974	927	880	833	785	0	0	0
	2021	GH	1,289	1,240	1,192	1,143	1,095	1,047	998	950	902	853	805	0	0
	2022	GH	1,370	1,321	1,271	1,222	1,172	1,123	1,073	1,023	974	924	875	825	0
	2023	GH	1,455	1,405	1,354	1,303	1,252	1,201	1,151	1,100	1,049	998	947	897	846
	2024	GH	1,544	1,492	1,440	1,388	1,336	1,283	1,231	1,179	1,127	1,075	1,023	971	919
	2025	GH	1,636	1,582	1,529	1,476	1,422	1,369	1,316	1,262	1,209	1,155	1,102	1,049	995
	2026	GH	1,731	1,677	1,622	1,567	1,513	1,458	1,403	1,348	1,294	1,239	1,184	1,130	1,075
	2027	GH	1,831	1,775	1,719	1,662	1,606	1,550	1,494	1,438	1,382	1,326	1,270	1,214	1,158
	2028	GH	1,934	1,876	1,819	1,762	1,704	1,647	1,589	1,532	1,474	1,417	1,359	1,302	1,244
	2029	GH	2,041	1,982	1,923	1,864	1,806	1,747	1,688	1,629	1,570	1,511	1,452	1,393	1,334
	2030	GH	2,153	2,092	2,032	1,971	1,911	1,851	1,790	1,730	1,670	1,609	1,549	1,488	1,428
	2031	GH	2,268	2,206	2,144	2,083	2,021	1,959	1,897	1,835	1,773	1,711	1,649	1,588	1,526
	2032	GH	2,388	2,325	2,262	2,198	2,135	2,071	2,008	1,944	1,881	1,818	1,754	1,691	1,627
	2033	GH	2,513	2,448	2,383	2,318	2,253	2,188	2,123	2,058	1,993	1,928	1,863	1,798	1,733
	2034	GH	2,643	2,576	2,509	2,443	2,376	2,309	2,243	2,176	2,109	2,043	1,976	1,910	1,843
	2035	GH	2,834	2,709	2,640	2,572	2,504	2,435	2,367	2,299	2,231	2,162	2,094	2,026	1,957
	2036	GH	3,091	2,905	2,776	2,706	2,636	2,566	2,496	2,426	2,356	2,286	2,216	2,146	2,076
	2037	GH	3,360	3,169	2,977	2,846	2,774	2,702	2,630	2,559	2,487	2,415	2,343	2,272	2,200
	2038	GH	3,640	3,444	3,248	3,052	2,917	2,843	2,770	2,696	2,623	2,549	2,476	2,402	2,328
	2039	GH	3,932	3,731	3,530	3,329	3,128	2,990	2,914	2,839	2,764	2,688	2,613	2,537	2,462
	2040	GH	4,236	4,030	3,824	3,618	3,412	3,206	3,065	2,987	2,910	2,833	2,755	2,678	2,601
	2011	BR	0	0	0	0	0	0	0	0	0	0	0	0	0
	2012	BR	151	0	0	0	0	0	0	0	0	0	0	0	0
	2013	BR	164	154	0	0	0	0	0	0	0	0	0	0	0
	2014	BR	177	168	158	0	0	0	0	0	0	0	0	0	0
	2015	BR	191	182	172	162	0	0	0	0	0	0	0	0	0
	2016	BR	206	196	186	176	166	0	0	0	0	0	0	0	0
	2017	BR	222	211	201	191	181	170	0	0	0	0	0	0	0
	2018	BR	238	227	217	206	196	185	175	0	0	0	0	0	0
	2019	BR	254	244	233	222	211	201	190	179	0	0	0	0	0
	2020	BR	272	261	250	239	228	217	206	195	183	0	0	0	0

Station	Unit	Capacity	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059
	2021	BR	290	278	267	256	245	233	222	211	199	188	0	0	0
	2022	BR	309	297	285	274	262	251	239	228	216	204	193	0	0
	2023	BR	328	316	304	293	281	269	257	245	233	221	209	198	0
	2024	BR	349	336	324	312	300	288	276	263	251	239	227	215	203
	2025	BR	370	357	345	332	320	307	295	282	270	257	245	233	220
	2026	BR	392	379	366	353	341	328	315	302	290	277	264	251	238
	2027	BR	415	402	388	375	362	349	336	323	310	297	284	271	257
	2028	BR	438	425	412	398	385	371	358	344	331	318	304	291	277
	2029	BR	463	449	436	422	408	394	381	367	353	339	326	312	298
	2030	BR	489	475	461	447	432	418	404	390	376	362	348	334	320
	2031	BR	516	501	487	472	458	443	429	414	400	385	371	356	342
	2032	BR	543	529	514	499	484	469	454	440	425	410	395	380	365
	2033	BR	572	557	542	527	511	496	481	466	451	435	420	405	390
	2034	BR	602	586	571	555	540	524	509	493	477	462	446	431	415
	2035	BR	633	617	601	585	569	553	537	521	505	489	473	457	441
	2036	BR	680	649	632	616	600	583	567	551	534	518	502	485	469
	2037	BR	743	697	665	648	632	615	598	581	564	548	531	514	497
	2038	BR	809	762	714	682	664	647	630	613	596	579	561	544	527
	2039	BR	878	829	781	732	699	681	663	646	628	611	593	575	558
	2040	BR	950	900	850	800	750	716	698	680	662	644	626	608	590
	2011	GR	0	0	0	0	0	0	0	0	0	0	0	0	0
	2012	GR	0	0	0	0	0	0	0	0	0	0	0	0	0
	2013	GR	0	0	0	0	0	0	0	0	0	0	0	0	0
	2014	GR	0	0	0	0	0	0	0	0	0	0	0	0	0
	2015	GR	0	0	0	0	0	0	0	0	0	0	0	0	0
	2016	GR	0	0	0	0	0	0	0	0	0	0	0	0	0
	2017	GR	0	0	0	0	0	0	0	0	0	0	0	0	0
	2018	GR	0	0	0	0	0	0	0	0	0	0	0	0	0
	2019	GR	0	0	0	0	0	0	0	0	0	0	0	0	0
	2020	GR	47	0	0	0	0	0	0	0	0	0	0	0	0
	2021	GR	51	48	0	0	0	0	0	0	0	0	0	0	0
	2022	GR	56	53	50	0	0	0	0	0	0	0	0	0	0
	2023	GR	60	57	54	51	0	0	0	0	0	0	0	0	0
	2024	GR	65	62	59	55	52	0	0	0	0	0	0	0	0
	2025	GR	70	66	63	60	57	54	0	0	0	0	0	0	0
	2026	GR	75	71	68	65	61	58	55	0	0	0	0	0	0
	2027	GR	80	77	73	70	66	63	60	56	0	0	0	0	0
	2028	GR	86	82	79	75	72	68	65	61	58	0	0	0	0
	2029	GR	91	88	84	81	77	73	70	66	63	59	0	0	0
	2030	GR	97	93	90	86	83	79	75	72	68	64	61	0	0
	2031	GR	103	100	96	92	88	85	81	77	73	70	66	62	0
	2032	GR	110	106	102	98	94	91	87	83	79	75	71	67	64
	2033	GR	116	113	109	105	101	97	93	89	85	81	77	73	69
	2034	GR	123	119	115	111	107	103	99	95	91	87	83	79	75
	2035	GR	131	126	122	118	114	110	106	102	98	93	89	85	81
	2036	GR	141	134	130	125	121	117	113	108	104	100	96	91	87
	2037	GR	155	145	137	133	129	124	120	115	111	107	102	98	94
	2038	GR	169	159	148	141	136	132	127	123	118	114	109	105	101
	2039	GR	184	173	163	152	144	140	135	130	126	121	117	112	108
	2040	GR	200	189	178	167	156	148	143	138	134	129	124	120	115
	2011	TY	0	0	0	0	0	0	0	0	0	0	0	0	0

Station	Unit	Capacity	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059
	2012	TY	0	0	0	0	0	0	0	0	0	0	0	0	0
	2013	TY	0	0	0	0	0	0	0	0	0	0	0	0	0
	2014	TY	0	0	0	0	0	0	0	0	0	0	0	0	0
	2015	TY	0	0	0	0	0	0	0	0	0	0	0	0	0
	2016	TY	0	0	0	0	0	0	0	0	0	0	0	0	0
	2017	TY	0	0	0	0	0	0	0	0	0	0	0	0	0
	2018	TY	0	0	0	0	0	0	0	0	0	0	0	0	0
	2019	TY	0	0	0	0	0	0	0	0	0	0	0	0	0
	2020	TY	0	0	0	0	0	0	0	0	0	0	0	0	0
	2021	TY	0	0	0	0	0	0	0	0	0	0	0	0	0
	2022	TY	54	0	0	0	0	0	0	0	0	0	0	0	0
	2023	TY	58	55	0	0	0	0	0	0	0	0	0	0	0
	2024	TY	63	60	56	0	0	0	0	0	0	0	0	0	0
	2025	TY	68	65	61	58	0	0	0	0	0	0	0	0	0
	2026	TY	73	70	66	63	59	0	0	0	0	0	0	0	0
	2027	TY	79	75	72	68	64	61	0	0	0	0	0	0	0
	2028	TY	85	81	77	73	70	66	62	0	0	0	0	0	0
	2029	TY	91	87	83	79	75	71	68	64	0	0	0	0	0
	2030	TY	97	93	89	85	81	77	73	69	65	0	0	0	0
	2031	TY	103	99	95	91	87	83	79	75	71	67	0	0	0
	2032	TY	110	106	102	98	94	89	85	81	77	73	69	0	0
	2033	TY	117	113	109	104	100	96	92	87	83	79	75	70	0
	2034	TY	124	120	116	111	107	103	98	94	90	85	81	76	72
	2035	TY	132	128	123	119	114	110	105	101	96	92	87	83	78
	2036	TY	143	135	131	126	122	117	112	108	103	99	94	89	85
	2037	TY	157	146	139	134	129	125	120	115	111	106	101	96	92
	2038	TY	172	161	150	142	137	133	128	123	118	113	108	104	99
	2039	TY	187	176	165	154	146	141	136	131	126	121	116	111	106
	2040	TY	203	192	180	169	158	149	144	139	134	129	124	119	114

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Station	Unit	Capacity	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
BR	BR1	101	0	0	0	0	0	441	454	590	616	785	787	789	1,035	1,054	1,357	1,337	1,319
BR	BR2	167	0	0	0	0	0	729	751	975	1,018	1,299	1,301	1,305	1,711	1,743	2,245	2,211	2,180
BR	BR3	416	0	0	0	0	0	1,816	1,870	2,430	2,536	3,235	3,242	3,252	4,261	4,342	5,591	5,508	5,431
CR	CR4	155	258	840	1,124	1,095	1,216	1,960	1,949	1,644	1,927	2,572	2,560	2,096	2,059	2,073	1,531	1,768	1,810
CR	CR5	168	279	910	1,219	1,187	1,318	2,124	2,112	1,782	2,089	2,788	2,774	2,272	2,232	2,247	1,659	1,916	1,962
CR	CR6	240	399	1,300	1,741	1,696	1,882	5,221	5,152	4,566	4,899	5,799	5,682	4,867	4,712	4,637	3,700	3,969	3,960
GH	GH1	475	0	0	0	0	0	5,620	5,988	6,566	7,371	8,085	8,761	9,219	9,707	10,790	12,508	14,281	15,439
GH	GH2	484	0	0	0	0	0	5,727	6,101	6,691	7,510	8,238	8,927	9,394	9,891	10,994	12,745	14,551	15,732
GH	GH3	480	0	0	0	0	0	5,680	6,051	6,635	7,448	8,170	8,854	9,316	9,809	10,904	12,640	14,431	15,602
GH	GH4	479	0	0	0	0	0	5,668	6,038	6,622	7,433	8,153	8,835	9,297	9,789	10,881	12,614	14,401	15,569
GR	GR3	68																	
GR	GR4	95																	
MC	MC1	303																	
MC	MC2	301																	
MC	MC3	391																	
MC	MC4	477																	
TC	TC1	383	0	0	0	0	0	1,965	2,066	2,172	2,216	2,260	2,305	2,351	2,398	2,446	2,495	2,545	2,596
TC	TC2	549	0	0	0	0	0	2,817	2,961	3,114	3,176	3,240	3,304	3,371	3,438	3,507	3,577	3,648	3,721
TY	TY3	71																	

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
BR Landfill Phase 2 Savings	0	0	0	0	0	0	0	828	908	1,960	1,870	1,782	1,697	1,613	1,531	1,451	1,372
BR Landfill Phase 3 Savings	0	0	0	0	0	0	0	0	0	0	0	0	1,638	1,745	3,767	3,594	3,426
BR Landfill O&M Savings	0	0	0	0	0	2,985	3,075	3,167	3,262	3,360	3,461	3,564	3,671	3,781	3,895	4,012	4,132
CR Landfill Capital Savings	936	3,049	4,083	3,979	4,416	4,938	4,772	3,579	4,464	6,617	6,353	4,493	4,170	4,023	1,844	2,496	2,513
CR Landfill O&M Savings	0	0	0	0	0	2,181	2,307	2,393	2,537	2,726	2,944	3,121	3,308	3,507	3,717	3,925	4,061
CR6 Stator Rewind Savings	0	0	0	0	0	2,187	2,135	2,020	1,914	1,816	1,719	1,621	1,524	1,427	1,329	1,232	1,158
GH Landfill Capital Savings	0	0	0	0	0	61	188	1,083	2,805	4,044	4,399	4,388	4,387	6,672	11,397	16,206	18,397
GH Landfill O&M Savings	*0*	*0*	*0*	*0*	*0*	22,633	23,991	25,431	26,957	28,601	30,979	32,838	34,808	36,897	39,110	41,457	43,944
TC Landfill Capital Savings	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TC Landfill O&M Savings	0	0	0	0	0	4,782	5,027	5,286	5,392	5,500	5,610	5,722	5,836	5,953	6,072	6,194	6,318

Station	Unit	Capacity	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
BR	BR1	101	1,301	1,285	1,267	1,122	410	385	360	331	54	46	38	30	23
BR	BR2	167	2,151	2,124	2,095	1,855	678	636	595	547	89	76	63	50	39
BR	BR3	416	5,359	5,291	5,219	4,620	1,688	1,585	1,482	1,363	222	189	157	124	97
CR	CR4	155	1,869	1,932	2,000	1,861	1,810	1,778	1,748	1,719	1,692	1,708	1,727	1,747	1,771
CR	CR5	168	2,025	2,094	2,168	2,017	1,962	1,927	1,895	1,864	1,834	1,851	1,872	1,894	1,919
CR	CR6	240	4,000	4,047	4,101	3,833	3,704	3,602	2,777	2,662	2,620	2,645	2,674	2,705	2,742
GH	GH1	475	15,604	16,273	16,860	17,332	17,856	18,548	19,372	20,254	21,186	21,692	2,492	1,854	1,700
GH	GH2	484	15,900	16,581	17,180	17,660	18,195	18,899	19,739	20,637	21,587	22,103	2,539	1,889	1,733
GH	GH3	480	15,769	16,444	17,038	17,514	18,044	18,743	19,576	20,467	21,409	21,921	2,518	1,874	1,718
GH	GH4	479	15,736	16,410	17,002	17,478	18,007	18,704	19,535	20,424	21,364	21,875	2,513	1,870	1,715
GR	GR3	68													
GR	GR4	95													
MC	MC1	303													
MC	MC2	301													
MC	MC3	391													
MC	MC4	477													
TC	TC1	383	2,648	5,363	8,239	8,294	12,354	12,003	11,666	11,343	11,031	10,731	10,442	10,162	9,886
TC	TC2	549	3,796	7,687	11,809	11,888	17,709	17,206	16,723	16,259	15,812	15,382	14,967	14,567	14,170
TY	TY3	71													

	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
BR Landfill Phase 2 Savings	1,294	1,215	1,123	156	138	120	101	83	64	46	28	9	0
BR Landfill Phase 3 Savings	3,261	3,101	2,943	2,789	2,638	2,487	2,336	2,158	301	265	230	194	159
BR Landfill O&M Savings	4,256	4,384	4,515	4,651									
CR Landfill Capital Savings	2,483	2,455	2,429	1,631	1,345	1,123	908	695	485	430	384	338	303
CR Landfill O&M Savings	4,305	4,563	4,837	5,128	5,230	5,335	5,441	5,550	5,661	5,774	5,890	6,008	6,128
CR6 Stator Rewind Savings	1,106	1,055	1,004	952	901	850	70	0	0	0	0	0	0
GH Landfill Capital Savings	18,341	18,358	17,892	16,784	15,709	15,118	14,860	14,617	14,352	12,126	9,906	7,329	6,705
GH Landfill O&M Savings	44,668	47,348	50,189	53,201	56,393	59,776	63,363	67,165	71,194	75,466	155	158	161
TC Landfill Capital Savings	0	6,478	13,344	13,344	23,088	22,094	21,132	20,199	19,293	18,412	17,554	16,717	15,883
TC Landfill O&M Savings	6,444	6,573	6,704	6,838	6,975	7,115	7,257	7,402	7,550	7,701	7,855	8,012	8,172

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Station	Unit	Capacity	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
BR	BR1	101	0	0	0	553	743	703	668	635	606	577	548	519	491	462	433	413	403	393	382	372	361	351	340	330	320	309
BR	BR2	167	0	0	0	915	1,228	1,163	1,104	1,050	1,002	954	907	859	811	764	716	684	666	649	632	615	597	580	563	546	528	511
BR	BR3	416	0	0	0	2,279	3,060	2,897	2,749	2,616	2,496	2,377	2,258	2,140	2,021	1,902	1,784	1,703	1,660	1,617	1,574	1,531	1,488	1,445	1,402	1,359	1,316	1,273
CR	CR4	155	0	0	0	980	1,582	1,494	1,413	1,339	1,269	1,201	1,132	1,064	996	927	859	806	770	735	699	663	627	591	0	0	0	0
CR	CR5	168	0	0	0	1,062	1,715	1,619	1,532	1,451	1,376	1,302	1,227	1,153	1,079	1,005	931	874	835	796	757	718	679	640	0	0	0	0
CR	CR6	240	0	0	0	1,518	2,449	2,313	2,188	2,073	1,966	1,860	1,754	1,647	1,541	1,435	1,329	1,249	1,193	1,137	1,082	1,026	970	915	0	0	0	0
GH	GH1	475	0	0	0	1,462	1,954	1,856	1,767	1,686	1,611	1,540	1,468	1,397	1,325	1,254	1,183	1,111	1,062	1,035	1,008	982	955	928	901	875	848	821
GH	GH2	484	0	0	0	1,489	1,991	1,891	1,800	1,718	1,642	1,569	1,496	1,423	1,350	1,278	1,205	1,132	1,082	1,055	1,028	1,000	973	946	918	891	864	837
GH	GH3	480	0	0	0	1,477	1,975	1,876	1,786	1,703	1,628	1,556	1,484	1,411	1,339	1,267	1,195	1,123	1,073	1,046	1,019	992	965	938	911	884	857	830
GH	GH4	479	0	0	0	1,474	1,971	1,872	1,782	1,700	1,625	1,553	1,481	1,409	1,337	1,265	1,193	1,121	1,071	1,044	1,017	990	963	936	909	882	855	828
GR	GR3	68	0	0	0	586	837	792	751	713	679	645	611	577	544	510	476	452	438	423	409	395	380	366	352	337	323	309
GR	GR4	95	0	0	0	819	1,169	1,106	1,049	996	948	901	854	807	759	712	665	631	611	591	571	551	531	511	491	471	451	431
MC	MC1	303	0	0	0	1,215	1,774	1,682	1,598	1,521	1,449	1,380	1,311	1,242	1,173	1,103	1,034	965	915	882	850	818	786	754	722	690	658	626
MC	MC2	301	0	0	0	1,207	1,762	1,671	1,588	1,511	1,440	1,371	1,302	1,234	1,165	1,096	1,027	959	908	877	845	813	781	749	717	686	654	622
MC	MC3	391	0	0	0	1,568	2,289	2,171	2,063	1,963	1,870	1,781	1,692	1,602	1,513	1,424	1,335	1,245	1,180	1,139	1,097	1,056	1,015	973	932	891	849	808
MC	MC4	477	0	0	0	1,913	2,792	2,648	2,516	2,394	2,281	2,172	2,064	1,955	1,846	1,737	1,628	1,519	1,440	1,389	1,339	1,288	1,238	1,187	1,137	1,086	1,036	986
TC	TC1	383	0	0	0	770	1,008	958	912	871	833	797	760	724	688	652	616	579	555	542	529	517	504	491	479	466	453	441
TC	TC2	549	0	0	0	1,104	1,445	1,373	1,307	1,248	1,194	1,142	1,090	1,038	986	934	882	830	795	777	759	741	723	704	686	668	650	632
TY	TY3	71	0	0	0	586	837	792	751	713	679	645	611	577	544	510	476	452	438	423	409	395	380	366	352	337	323	309
		BRWATER	0	0	0	3,747	5,032	4,763	4,521	4,302	4,104	3,908	3,713	3,518	3,323	3,128	2,933	2,800	2,729	2,659	2,588	2,517	2,447	2,376	2,305	2,235	2,164	2,094
		CRWATER	0	0	0	3,560	5,746	5,427	5,134	4,863	4,611	4,362	4,113	3,865	3,616	3,367	3,118	2,929	2,798	2,668	2,537	2,407	2,277	2,146	0	0	0	0
		MCWATER	0	0	0	5,902	8,617	8,173	7,765	7,389	7,040	6,704	6,368	6,032	5,696	5,361	5,025	4,689	4,443	4,287	4,131	3,976	3,820	3,664	3,508	3,353	3,197	3,041
		TCWATER	0	0	0	1,874	2,453	2,331	2,220	2,119	2,026	1,938	1,850	1,762	1,674	1,586	1,498	1,410	1,350	1,319	1,288	1,258	1,227	1,196	1,165	1,134	1,103	1,072
		GHWATER	0	0	0	5,902	7,892	7,495	7,135	6,806	6,505	6,217	5,928	5,640	5,352	5,063	4,775	4,487	4,288	4,180	4,072	3,964	3,856	3,748	3,640	3,531	3,423	3,315
		GRWATER	0	0	0	1,405	2,006	1,898	1,799	1,709	1,627	1,546	1,465	1,384	1,303	1,222	1,141	1,083	1,049	1,015	980	946	912	877	843	809	774	740

Station	Unit	Capacity	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059
BR	BR1	101	299	288	278	267	257	247	236	226	215	205	194	184	174	0	0	0	0	0	0	0	0	0	0
BR	BR2	167	494	477	459	442	425	408	390	373	356	339	321	304	287	0	0	0	0	0	0	0	0	0	0
BR	BR3	416	1,230	1,187	1,144	1,101	1,058	1,016	973	930	887	844	801	758	715	0	0	0	0	0	0	0	0	0	0
CR	CR4	155	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR5	168	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR6	240	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GH	GH1	475	794	767	741	714	687	660	634	607	580	553	526	500	473	446	0	0	0	0	0	0	0	0	0
GH	GH2	484	809	782	755	727	700	673	646	618	591	564	536	509	482	454	0	0	0	0	0	0	0	0	0
GH	GH3	480	803	776	748	721	694	667	640	613	586	559	532	505	478	451	0	0	0	0	0	0	0	0	0
GH	GH4	479	801	774	747	720	693	666	639	612	585	558	531	504	477	450	0	0	0	0	0	0	0	0	0
GR	GR3	68	294	280	266	251	237	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GR	GR4	95	411	391	371	351	331	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC1	303	594	562	530	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC2	301	590	558	526	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC3	391	766	725	684	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC4	477	935	885	834	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TC	TC1	383	428	415	403	390	377	364	352	339	326	314	301	288	276	263	250	237	225	212	0	0	0	0	0
TC	TC2	549	613	595	577	559	541	522	504	486	468	450	431	413	395	377	359	340	322	304	0	0	0	0	0
TY	TY3	71	294	280	266	251	237	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		BRWATER	2,023	1,952	1,882	1,811	1,740	1,670	1,599	1,529	1,458	1,387	1,317	1,246	1,175	0	0	0	0	0	0	0	0	0	0
		CRWATER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		MCWATER	2,886	2,730	2,574	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		TCWATER	1,041	1,010	979	949	918	887	856	825	794	763	732	701	670	640	609	578	547	516	0	0	0	0	0
		GHWATER	3,207	3,099	2,991	2,883	2,774	2,666	2,558	2,450	2,342	2,234	2,125	2,017	1,909	1,801	0	0	0	0	0	0	0	0	0
		GRWATER	706	671	637	603	568	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Advocacy group: Fracking makes natural gas 'bridge to nowhere'

June 14, 2011
By Bryan Schutt

Advocacy group Food & Water Watch on June 13 called for a nationwide ban on hydraulic fracturing in shale gas plays and advocated for an aggressive investment in energy efficiency and renewable energy.

"What we've seen happen with fracking, what we know and don't know about fracking is enough to ban the practice from going forward," Jim Walsh, New Jersey director of Food & Water Watch, said in an interview. "We don't really see a responsible way for this practice to continue to go forward, which is why we're calling for a ban on fracking. We don't think it's going to be able to be done safely."

In a new report detailing their concerns, Food & Water Watch said the rapid expansion of shale gas extraction has left behind a trail of environmental and economic problems in rural communities.

"Accidents and leaks have polluted rivers, streams and drinking water supplies. Regions peppered with drilling rigs have high levels of smog as well as other airborne pollutants, including potential carcinogens. Rural communities face an onslaught of heavy truck traffic — often laden with dangerous chemicals used in drilling — and declining property values," according to the report. "The 'bridge fuel' of fracking could well be a bridge to nowhere."

The report summarized 10 studies about the environmental effects of hydraulic fracturing operations and concluded that the well-stimulation technique poses an unacceptable risk to the nation. Further, Food & Water Watch said increased use of fracking represents a "misguided energy policy direction for the United States."

While the gas industry has launched a massive lobbying campaign to sell natural gas to lawmakers and the public, the group criticized regulators for being asleep at the switch. "The current loophole-ridden laws and haphazard enforcement leave communities and the environment vulnerable to fracking pollution," the report said. "To safeguard public health and the environment, the federal government should ban shale gas fracking and invest in a sustainable energy future for the country."

Food & Water Watch released the report as part of its anti-gas lobby in New Jersey, which Walsh believes is gaining traction among legislators. "Right now, I believe there is about 12 legislators that have signed on in support," he said. "The ban bill also unanimously moved out of the Senate Environment Committee with votes from Republicans and Democrats."

In addition to a fracking ban, Walsh said, the state should prohibit all activities related to hydraulic fracturing such as water withdrawals and waste disposals that support the industry. "Spills, trucking accidents and things like that from waste coming into the state could adversely impact our drinking water."

Although there has not been much industry interest in shale acreage in New Jersey, the ban would represent more than symbolism, Walsh said. "In the northwestern part of the state, there are shale deposits that have the hydrocarbons. Even though there aren't leases pending right now, the only reason I believe the industry isn't going after those deposits is because they are a lot deeper than the Marcellus Shale in Pennsylvania and New York."

The New Jersey Sierra Club and Delaware Riverkeeper Network joined Food & Water Watch in calling for a fracking ban.

"The first rule in public health and safety is do no harm, and right now there is no fracking way that it is safe and a ban should be in place," Jeff Tittel, director of the New Jersey Sierra Club, said in a statement. "Until we get rid of the Halliburton loophole that exempts fracking from seven major federal environmental laws, including Superfund and the Clean Water Act, until all the different studies are done that independently analyze the impacts of fracking, we should not allow fracking to go forward. It is too risky to our environment and water supplies." *i*

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CNYOG's MARC I project becomes battleground for Marcellus Shale opponents

July 13, 2011
By Sean Sullivan

Central New York Oil and Gas Co. LLC defended FERC's positive environmental review of the MARC I Hub Line Project on July 11 as environmental groups and thousands of individuals poured into the FERC proceeding, protesting not only the natural gas pipeline expansion but all Marcellus Shale development.

Protests came from lawmakers; environmental groups including the Coalition for Responsible Growth & Resource Conservation, Damascus Citizens for Sustainability, the Sierra Club and Trout Unlimited; and citizen comments, including more than 20,000 form letters filed as part of an Earthjustice online campaign. They objected to FERC's finding that the Pennsylvania project would have no significant impact on the environment. They asked for a full environmental impact statement, including a review of the cumulative impacts of all Marcellus Shale gas infrastructure and activity.

The case is an example of how opponents of shale development might use the FERC review process for pipelines and storage projects to broadly challenge production activity not normally under the commission's jurisdiction.

In its comments, CNYOG supported the May 27 environmental assessment prepared by FERC staff as "both comprehensive and detailed." The Inergy LP subsidiary said a more involved environmental impact statement is "unnecessary." The MARC I Hub Line Project would be a roughly 40-mile, 30-inch-diameter bidirectional pipeline in Bradford, Sullivan and Lycoming counties, Pa.

"The EA addresses all major areas of environmental concern, including: geology, soils, water resources and wetlands, vegetation and wildlife, endangered and threatened species, land use, socioeconomics, cultural resources, air quality and noise levels, reliability and safety," CNYOG said.

CNYOG noted that it intends to comply with FERC's proposed environmental mitigation measures. As an example, the company said the Audubon Society's concern that it had not filed a migratory bird assessment and habitat restoration plan is addressed by a recommendation in FERC's environmental assessment. Under that requirement, CNYOG would have to file that assessment and plan before beginning construction. In comments submitted by its Pennsylvania office, the Audubon Society called Marcellus Shale development the "single largest threat" to Pennsylvania forest habitat.

CNYOG ripped into the comments produced by Earthjustice, which describes itself as a nonprofit environmental law firm. "These 'comments' were the product of an Internet campaign in which Earthjustice indicated that it would submit comments to the commission on behalf of persons who submitted their name and pertinent information on Earthjustice's website," the company said. "This campaign, while producing an impressive number of 'comments,' also demonstrates the substantive weakness of the mass filing."

At the time of its comments, CNYOG said, only 37 of the thousands of letters gathered by the Earthjustice campaign were from residents of the three counties around the MARC I project. The company said the letters represented the general public's fear of the environmental impacts of hydraulic fracturing and other aspects of shale development, stoked by a "less-than-objective" description of the project on the Earthjustice website. CNYOG also said a number of letters were duplicates or their senders could not be identified, and "reflect the absence of any attempt at culling of obviously defective submissions."

Members of the Pennsylvania General Assembly, led by state Rep. Richard Mirabito, sent a letter to FERC expressing concerns about the project "on behalf of the tens of thousands of citizens that we represent."

"While natural gas drilling is already impacting the area," the lawmakers wrote, "we believe that construction of a 39-mile transmission pipeline as proposed in this project without an adequate environmental assessment is beyond what this region should be asked to bear and may cause irreparable harm." (CP10-480) *i*

9. EMISSIONS:

E.U. emissions show biggest annual increase in 20 years

Published: Tuesday, October 11, 2011

The European Union, despite major gains in green initiatives, is about to set a record for the biggest yearly hike in carbon emissions in 20 years, according to preliminary data from the European Environment Agency.

Incremental economic recovery and an unusually cold winter, which caused consumers to heat their homes for longer, pushed 2010 emissions up by 2.4 percent from the previous year. The jump is the biggest annual increase since 1990.

Until now, the biggest increase was in 1996, when emissions from the 27-member union rose by 2 percent from 1995 levels. The increase last year follows a 7 percent drop in annual emissions in 2009 due to slowed industrial production from the recession and growth in renewable energy electricity generation.

The 15 E.U. countries with obligations under the **Kyoto** Protocol are largely on track to meet their obligations. Emissions have dropped by 10.6 percent since 1990, surpassing the pledge to cut levels by 8 percent between 2008 and 2012. Three of the countries -- Italy, Austria and Luxembourg -- are falling behind in their reduction goals, however.

The E.U. bloc of 27 nations also has a separate plan to cut its emissions by 20 percent by 2020 compared to 1990 levels. It has already achieved a 15.5 percent decrease since 1990, but the European Environment Agency, an E.U. body based in Copenhagen, Denmark, says that more needs to be done.

Existing European plans "do not project enough emission reductions for the E.U. to meet its unilateral 20 per cent reduction commitment in 2020," said the agency. "Additional measures currently planned by member states will help further reduce emissions but will be insufficient to achieve the important emission cuts needed in the longer term" (Pilita Clark, ***Financial Times***, Oct. 7). -- **JP**

The EU Emission Trading Scheme: designed by committee[1]

By Arnold Mulder

Ever since the EU Emissions Trading Scheme (EU ETS) came into effect on January 1st 2005, it has been surrounded by uncertainty. Although the scheme is intended as the most powerful weapon in the effort to reduce European carbon emissions, doubts about its effectiveness and feasibility have remained. In theory, 'the ETS should allow the European Union to achieve its emission reduction target under the Kyoto Protocol at a cost of below 0.1% of GDP, significantly less than would otherwise be the case', according to the European Commission (2008). In practice, the efficiency and effectiveness of the ETS remain questionable.

The challenge to reduce emissions

The European Commission aims to reduce 'domestic' carbon emissions by 20% in 2020 compared to 1990. The EU ETS is the flagship in the EU's efforts to meet this goal. The scheme covers all sectors with substantial carbon emissions from point sources, such as the power, steel, iron, petroleum and gas sectors. Mobile sources of emissions (e.g. the transport sector) are not yet included in the ETS.

The fact that the ETS focuses on large, stationary and concentrated sources of carbon emissions is no coincidence. Reducing emissions from a few power plants is easier than reducing emissions from millions of cars. Because the large stationary sources are all covered by the ETS, a stricter reduction target is applied to these sectors than to sectors outside the emissions trading scheme. Effectively, the EU ETS sectors are expected to reduce their emissions by 21% between 2005 and 2020, while sectors outside the scheme are projected to reduce their emissions by merely 10%. Together the reductions suffice to meet the 20% goal in 2020.

The emphasis on the sectors covered by the ETS underlines the key role of the emissions trading scheme: if the 21% reduction target is not met, achieving the overall reduction target will be nearly impossible, because it would require a stronger reduction in sectors where emissions reduction are already more difficult or more costly to achieve. Therefore, meeting the ETS target is crucial.

Why cap and trade is assumed to be effective and efficient...

Under the ETS, allowances are distributed to all the installations included in the scheme. A single allowance provides the owner the right to emit one tonne of CO_2 into the atmosphere. Because the number of allowances issued in a year can be set to a specific level, the scheme is assumed to be an effective means to reduce emissions. The level of

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[1] Published April 18th, 2011, in European Energy Review, see http://www.europeanenergyreview.eu/site/pagina.php?id=2914#artikel_2914

emissions is limited after all by the number of issued allowances. If companies fail to buy allowances when they exceed their emission limits, they will incur a high penalty. The penalty is set far above the actual market price for allowances, so cheating does not pay off.
By progressively reducing the number of issued allowances towards the desired level, the EU should be able achieve its 2020 reduction targets with great certainty. Companies will either have to buy allowances if they don't reduce their emissions sufficiently, or they will have to invest in low-carbon technologies to reduce their emissions. This is also assumed to be the most efficient mechanism to reduce emissions, as market forces will ensure that firms with the lowest-cost technology available will invest first. Thus, the emissions reduction target is achieved against the lowest possible cost.

If this is so, then why, as indicated above, do the efficiency and effectiveness of the ETS remain in doubt?

...and why the EU ETS is not

The answer is that there is a big difference in how the scheme was designed in theory and how it works in practice. The actual design of the EU ETS is nothing like the stylized, effective and efficient trading scheme described above. With 30 national governments, various industries and lobby groups involved in the scheme, the actual design of the EU ETS is the result of a compromise between all stakeholders. This compromise has led to a sub-optimal design with several flaws which undermine the effectiveness and efficiency of the scheme. In fact, under the current regime the scheme is unlikely to incentivize substantial investments in low-carbon technologies until 2020.

A recent study (see Mulder and Bos, 2010) by the University of Groningen (RuG) and Dutch technological consultancy TNO shows that the probability of achieving the EU ETS reduction target is very low indeed.

Investments will only take place if allowances are in scarce supply or are expected to be in short supply in the near future. Otherwise there is no incentive to invest in emission reduction technology. However, the EU ETS suffers from a large oversupply of allowances.

According to the study by the RuG and TNO, on average, a total of 1.4 billion allowances are expected to be carried over to Phase III of the EU ETS which starts in 2013. The excess of 1.4 billion allowances will have been built up over the course of Phase II of the ETS (2008-2012) and is equivalent to approximately 70% of the European demand for allowances in 2009. To put it in another perspective: the surplus would suffice to cover the Dutch demand for allowances for a full 16 years. As a result, allowances are not scarce, which minimizes the pressure on firms to reduce their emissions and puts downward pressure on the carbon price.

Starting in 2013 the number of allowances issued will be reduced by 1.74% on an annual basis. However, this does not imply that the market will move from an annual surplus to an annual shortage immediately. Although the annual surplus will decrease, on average the market is expected to remain in oversupply until 2020 under the current regime. As a result, if EU ETS policy remains unchanged, the total surplus is expected to grow from 1.4 billion by the end of 2012 to 2.1 billion in 2020.

Sources of oversupply

The reason for the oversupply in the market is that the design of the EU ETS includes a number of regulations (loopholes) that allow for a gradual buildup of allowances over time. Three main sources of oversupply can be identified:

1. *Banking of Allowances*

As of the beginning of Phase II in 2008, firms were allowed to bank their excess allowances. Before that time, during Phase I (2005-2007), allowances could only be used to offset emissions in a specific year and lost their function and value afterwards. The new rule implied that any allowances in excess of immediate demand could now be transferred to future periods and, as such, would hold their value over time. This change enhanced the tradability of allowances but it also meant that emissions were no longer limited to the number of allowances issued in a particular year.

This means that whereas in the past the European Commission could set annual emission levels that would gradually lead to the desired end target, now it can only control the cumulative number of allowances issued over the 13-year period (2008-2020). The result of this banking rule is that you get a so-called waterbed-effect in the market: lower emissions today allow for higher levels of emissions tomorrow. This makes the system vulnerable to sudden demand shocks. The recent economic recession provides a clear example. The level of emissions under the EU ETS fell by more than 11% in 2009 and as a result companies were able to hoard around 250 million allowances in that single year alone. Over Phase II as a whole the recession is expected to add approximately 700 million allowances to the surplus.

With the banking arrangement in place, the ETS will remain vulnerable to demand shocks in the future. The waterbed-effect removes the ability for policymakers to steer the level of emissions in 2020 to a specific level.

2. The Linking Directive

Another important source of oversupply is the Linking Directive. The Linking Directive allows companies to import extra allowances into the European emissions trading scheme. These allowances originate from two programs under the Kyoto protocol: the Clean Development Mechanism (CDM) and Joint Implementation (JI). Firms are allowed to use these allowances to offset their emissions on top of the allowances that they have already been granted under the scheme. The directive allows companies to raise the number of allowances in the scheme by a maximum of 13.3%.

In 2009 around one third of the potential of the Linking Directive was actually used. This resulted in an extra 83 million allowances that entered the EU ETS in that single year; adding approximately 4% on top of the original cap. As the original cap of the EU ETS is set to decline starting in 2013, and the CDM and JI programs are further developed, the usage of the Linking Directive is likely to grow over time although the European Commission is planning to ban the usage of allowances from certain specific programs.

3. Leftovers from the New Entrants Reserve

The New Entrants Reserve (NER) is the third significant source of oversupply. As the name implies, the allowances in the NER are reserved for new entrants into the EU ETS. For example, if a new power plant is built, allowances are assigned to this installation from the NER.

Five percent of the overall allowance cap is reserved for new entrants. If there are allowances left over in the reserve by the end of Phase II, member states are free to sell these on the market. As these allowances will not be covered by emissions, they will merely alleviate the pressure on incumbents who are able to buy them.

A considerable number of allowances is expected to be left over in the NER by the end of 2012. Estimates range from 180 million to 360 million allowances, depending on the actions of individual member states and the number of new entrants over the next two years. If member states decide to withdraw their surpluses instead of selling them on the market the problem could be eliminated. However, the surpluses represent an easy source of cash for governments with which they could fund other projects. Against a market price of €15 per allowance, an excess of 180 million allowances would provide national governments with a total revenue of €2.7 billion. The upshot is that national governments have an incentive not to act in the best interests of the trading scheme by selling off all remaining allowances in the reserve.

Phase III: lack of alignment further undermines the ETS

Not only does this analysis indicate that there is hardly a basis for a strong and stable price incentive from the ETS, more importantly it shows that European carbon policy lacks internal consistency. The surplus is after all not the consequence of unforeseen circumstances but the direct result of elements that were deliberately introduced into the system, like the Banking Rule, the Linking Directive and the New Entrants Reserve. These are essentially political choices.

Unfortunately, the elements that undermine the effectiveness of the scheme are not limited to the second phase of the ETS. For example, an NER is also set up for the third phase (2013-2020). Although it is still too early to say whether there will be any allowances left over in the reserve by 2020, the European Commission has already reserved 300 million allowances as a means to fund projects related to innovative energy technology and carbon capture and storage (CCS). Hence, the European Commission is again alleviating the pressure on companies covered by the scheme by releasing more allowances to finance other projects. Although support for the development of technologies like CCS is a necessity in order to reach long term emission reduction goals, the source of financing (allowances from the ETS) once again undermines the ETS. Whereas a high demand for allowances is necessary to stimulate investments, continued oversupply until 2020 is a real possibility. With that in mind even the current price level of €15 per tonne of CO_2 should be considered high, even in a few years' time.

Why a simple reduction of the cap is not the solution

The way to solve the problem of large surpluses seems straightforward: reduce the number of issued allowances. Currently the European Commission plans to reduce the number of issued allowances over Phase 3 by 500 to 800 million allowances to correct for the effects of the recent economic recession. Such a move could increase the probability of achieving the emission reduction goal. However, in isolation, a reduction of allowances is still likely to be ineffective, because it would not fix any of the weaknesses of the ETS. The vulnerability to demand shocks, to the Linking Directive and to the NER is still there.

Policy measures should therefore first and foremost be focused on eliminating the weaknesses of the ETS. Policy alignment is the key here: eliminate the linking directive, stop using the NER as a financial instrument and eliminate any remaining allowances in the reserve. An agreement that would include these elements would constitute a major step forward. Unfortunately, such a far-reaching agreement is unlikely to be achieved given the number of parties sitting at the negotiation table.

Leave the market alone: why subsidies for wind energy are a bad idea

But there is another problem as well. Even if we assume that the parties reach an agreement and do what is necessary to fix some of the main weaknesses of the current scheme, it might still not mean that the emission trading scheme is an effective and efficient method to reach the European emission reduction target.

The carbon market will only work efficiently (i.e. reach the target against the lowest possible costs) if the carbon price is reasonably stable, so companies can plan their investments accordingly. This will only happen if policy makers refrain from interfering with the market and limit their actions to providing a stable and coherent policy environment. In that case an emissions trading scheme could work.

In reality, the past five years have seen an unstable and unpredictable carbon price. In effect, the carbon market is not a real market, in which market forces determine the outcomes. Policy makers are constantly interfering and effectively trying to direct the market. If interfering meant that weaknesses were resolved, that would be a good thing. Yet, in practice, interference is often equal to either crisis management (e.g. repairing the damage of the recession) or providing substitutes for the market (e.g. by subsidizing certain forms of renewable energy).

The latter type of interference often goes unnoticed because the interference with the emissions trading scheme is indirect. For example, governments continually come up with new schemes and subsidies to stimulate the use of renewable energy sources and other low-carbon solutions. These subsidies improve the business cases for the companies involved. As a result they may invest in, for example, offshore wind energy sooner than they would have done otherwise. The problem is, however, that there already is a scheme in place that is intended to provide the same incentive to the industry: the ETS. If policy makers took the necessary steps to improve the functioning of the ETS, rising carbon prices would in time make the offshore wind park economically feasible by itself. A subsidy would not be needed and valuable tax payer money could be saved.

The argument, however, runs even deeper. Companies investing in offshore wind energy with the help of a subsidy do so earlier than they would otherwise do, thereby saving allowances that they would otherwise use to cover emissions. These allowances can now be sold on the market for other companies to use. The companies that buy the excess allowances can postpone their own investments. As a result, policies that speed up the carbon reduction effort in one country effectively reduce the pressure on firms in other ETS member states. On balance, the subsidy does not add anything to the overall reduction effort, but is merely a costly substitute for reductions that would have taken place anyway.

The subsidy for wind energy is just one example of how policies on a local or national (or even European) level work as a substitute to the ETS, with the effect of undermining the allowance price and efficiency of the scheme. Emission norms, regulation, taxes and any other measure that would 'speed up' the reduction efforts of industries covered by the scheme would have a similar effect.

To a certain extent policy makers are right when they stress the need for other incentives. The ETS is not providing the type of strong and stable incentive that should be expected from it, so it is understandable that they look for other methods. As long as the ETS is in place, however, policy makers should leave the market free to work, refrain from introducing other incentives and focus on alignment of the ETS to make the ETS an effective and efficient weapon in the fight against carbon emissions.

The alternative is to abolish the ETS altogether and switch to another incentive scheme. An example of an incentive scheme that could bypass all of the mentioned problems would be a progressively rising carbon tax. Although the government would have no direct control over emission levels and a tax is generally assumed to be less efficient than a market mechanism, it would provide stability, certainty and feed into the general expectation of rising carbon prices. As a result, it would create the type of investment climate that could kick start the investments needed to achieve the 2020 reduction target. The monitoring systems are already in place and allowances that have already been issued would not have to lose their value or function. Most importantly, however, 'allowance surplus' would become a thing of the past. Governments have to choose: either allow the market to do its work, or introduce a tax without control over the emission levels. But interfering in the market with projects and measures that undermine the CO2 price is not sustainable at any rate.

Arnold Mulder (1985) studied International Economics and Business and is now a PhD Candidate at the University of Groningen. His doctoral thesis focuses on the CCS value chain and incentive systems, with specific attention to the European Emissions Trading Scheme (EU ETS).

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Pa. chapter of Sierra Club calls for moratorium on new Marcellus drilling permits

September 13, 2010
By Bryan Schutt

To provide time for regulations to catch up to drilling operations, the Pennsylvania Chapter of the Sierra Club is pushing state lawmakers to enact a moratorium on new Marcellus Shale permits.

With thousands of permits already issued, State Conservation Chair Thomas Au said a pause on new permits would not stop activity. It would, however, slow down an industry that could leave the state crippled unless proper oversight is adopted, Au said. "There's a need to put a stopgap hold on [new permits] until the state gets back together to pass legislation to protect safety and water," he said.

Although Gov. Edward Rendell has indicated that he will not sign a moratorium proposal, Au said the Sierra Club is intent on taking up the proposal with the new governor, who will be elected in November, as well as in the state's General Assembly.

But a moratorium is not the only demand of the club, which is unsatisfied with the lack of action on many legislative proposals. "The problem is, there are a number of bills that the state Legislature has failed to act on," Au said.

The Sierra Club, which has more than 23,000 members in Pennsylvania, supports new, tougher standards for well design and favors disclosure of hydraulic fracturing chemicals. The group also wants to ensure that no more drilling on state lands occurs, and it is opposed to "forced pooling." Additionally, the Sierra Club strongly favors a severance tax, which the Legislature has vowed to pass by Oct. 1.

"There are various proposals before the House on the severance tax, and whatever number the General Assembly comes up with ... we would like some portion to go to local governments, as well as to environmental conservation funds to deal with the long-term problems created by gas drilling," Au said.

In a Sept. 7 release, Dennis Winters, chairman of the Pennsylvania Chapter of the Sierra Club, said the costs of shale drilling in the state are already mounting. "Drilling pads and wastewater pits scar our landscapes. Heavy rigs damage our roads. Billions of gallons of water are withdrawn from our streams. Pipelines deface our natural areas. Operational errors contaminate our land and water and air," Winters said in a statement. "In Pennsylvania communities, people are being injured and killed from accidents; communities and towns are paying for additional services; and local emergency personnel are dealing with fires and toxic spills."

Jeff Schmidt, state chapter director for the Sierra Club, said those concerns highlight the need for action at the state level. "The legislative stalemate only hurts Pennsylvanians," he said. "Unless the Pennsylvania legislature acts now, Pennsylvania will suffer reckless environmental degradation; loss of drinking water; destruction of our precious state and national forests; increased air pollution; increased exposure to toxic chemicals used in the drilling process and to the inherent toxic chemicals in natural gas."

Au said the Sierra Club still supports natural gas as a bridge fuel, but it wants extraction to be environmentally responsible. "These are not mutually exclusive objectives. I believe the Sierra Club always said that natural gas drilling has to be done safely," Au said. "There is plenty of natural gas available right now, so there's no need for us to rush out and drill every hole in the ground that we can drill. We need to take a step back and look at safety and environmental concerns." *i*

Wall Street Journal – Tuesday, Oct. 4, 2011

Drill Fee Proposed for Pennsylvania
By Kris Maher

Pennsylvania Gov. Tom Corbett proposed a fee on natural-gas drilling of as much as $160,000 a well in an effort to find a middle ground between public support for assessing drillers in the booming Marcellus Shale basin and a campaign pledge not to impose taxes.

If passed by the state legislature, the recommendation would generate an estimated $120 million in the first year, most of which would be kept at the local level to help pay the cost to regulate drilling and to repair roads and bridges. Every other gas-drilling state already imposes a fee on wells or a tax on the value of gas that is extracted.

The governor's proposal also includes new requirements that would keep wells farther from streams and water wells. Environmentalists are concerned that the process of extracting shale gas, which involves pumping water and chemicals underground at high pressure, could contaminate surface and drinking water.

"As the number of wells grows, so will the revenue," said Mr. Corbett, a Republican, who linked the industry's growth to the state's economic future. "We are going to do this safely, and we're going to do it right, because energy equals jobs."

Under the governor's plan, about one-quarter of the well fees would go to state agencies like the Department of Environmental Protection and the rest to local communities. Some state lawmakers suggested they may push for higher fees or for more of the money to go to the state.

Democrat Jay Costa, the state Senate minority leader, said the governor's recommendations "fall woefully short" in terms of revenue and the amount that is going to the state. Some Republicans, who have a majority in both the Senate and House, are also pushing for more drilling revenue. GOP state Rep. Thomas Murt plans to introduce a bill Tuesday that includes a 4.9% tax on the gross value of the gas at the wellhead, rather than a fee. His bill would dedicate 29% of revenue to local governments, 27% to state environmental programs and 44% to state programs including drug rehabilitation.

Senate President Pro Tem Joe Scarnati said he hopes to pass a bill out of the Senate by the end of October.

The gas industry indicated it would push for legislation patterned after the governor's proposal. "The governor's plan...reminds us that the most significant and long-term benefits of clean-burning natural gas will be achieved only through competitive policies that allow the industry to flourish," said Kathryn Klaber, president of the Marcellus Shale Coalition, a trade group.

Sharon Ward, director of the Pennsylvania Budget and Policy Center, a liberal think tank, said: "Gov. Corbett has proposed a small, limited fee that fails to capture for Pennsylvanians the true worth of this vast natural resource, and fails to fully offset the short and long-term damage...by the industry."

Paul King, president of the Pennsylvania Environmental Council, called the governor's recommendations "a good start." Many of the state environmental rules related to drilling are nearly 30 years old.

A poll conducted last week by Quinnipiac University found that 64% of Pennsylvania residents favor a new tax on natural-gas drillers in the Marcellus, while 27% opposed a tax. The telephone survey of 1,370 registered voters conducted between Sept. 21-26 had a margin of error of 2.7%.

Other states, including Texas, Oklahoma, Arkansas and West Virginia, have taxes based on the value or volume of gas produced at a well site. Mr. Corbett, who was elected last year with strong gas-industry support, has said such a tax on drilling would turn away drillers and jobs.

EU Weighs Pullback on Cutting Emissions
Commission's Energy Department Urges EU to Reconsider Energy Transition Absent a Broader Emissions Deal

By Alessandro Torello

BRUSSELS—The European Union is for the first time clearly questioning whether it should press ahead with long-term plans to cut greenhouse-gas emissions if other countries don't follow suit, in what could herald a significant policy shift for a region that has been at the forefront of advocating action to combat climate change.

In a document reviewed by The Wall Street Journal, the European Commission's energy department says the EU should consider whether the region should seek to switch its domestic energy base away from carbon-emitting sources in the absence of a global climate-change deal.

"If coordinated action on climate among the main global players fails to strengthen in the next few years, the question arises how far the EU should continue with an energy-system transition oriented to decarbonization," the commission says in a draft of its Energy Roadmap 2050. The document is an effort to look at how the EU energy and climate picture would look in 2050, according to different scenarios.

To be sure, the EU will stick to its end-of-decade greenhouse-gas reduction goals and the paper could change before it is published later this year. Even if it doesn't, the document would only be the opening salvo in what would be a fiercely contested debate. Many member states are strongly committed to slashing emissions, and the climate-change department within the Commission, the EU's executive, would likely resist any attempt to water down the EU's green credentials. There has been frequent friction between the energy and climate-change departments in Brussels.

The EU has long been recognized as a global leader in the fight to slash carbon emissions.

EU law mandates that the 27 countries cut their CO_2 emissions by 20% on average by 2020, compared with 1990 levels, and policy after that is being drawn with the assumption of bringing that cut to between 80% and 95% by 2050. The EU has lobbied hard to get a successor for the Kyoto treaty, the instrument that regulates carbon emissions internationally and expires next year.

A spokeswoman for Energy Commissioner Guenther Oettinger declined to comment on the content of the document.

The EU's doubts come ahead of a climate-change summit in Durban, South Africa, which is thought to be unlikely to deliver a significant global climate-change deal.

The current focus seems to be on salvaging the minimum commitments that have driven global action since the Copenhagen summit's failure in 2009.

In the past, the EU has rejected the idea that inaction by others was a reason to shelve its goals. But in light of the lack of international progress, there had been signs of a debate within the EU over how hard the region should push on the issue. A meeting of EU environment ministers in Luxembourg last week agreed to commit internationally to new CO2-reduction targets only if there is a clear signal in Durban that other countries would follow suit.

The draft document says there are many benefits in pushing ahead with action to reduce carbon emissions. The commission says this will drive energy-infrastructure investments that will be needed anyway and reduce the region's external energy dependence.

Working on the assumption of a global deal, the document shows the commission urging member states to set out clear strategies for cutting emissions beyond 2020. The commission says the longer the wait, the higher the cost.

"Today there is an inadequate direction as to what should follow the 2020 agenda. This creates uncertainty among investors, citizens and governments," the document reads.

But the document is unambiguous about the risks if Europe acts alone.

"It has to be seen clearly that there are risks associated to unilateral EU action," the commission says in its draft. "There is a trade-off between climate-change policies and competitiveness. Europe cannot act alone in an effort to achieve global decarbonization," the paper says.

The commission is particularly worried that EU industry would lose competitiveness in the battle for global markets against companies from other parts of the world as its costs would be higher. EU companies would likely pay higher electricity prices because clean power production would be more expensive, while some would also have to pay for their own CO2 emissions, or face big investments to reduce them.

In a May 2010 study, the commission estimated that the 20% CO2 cut by 2020 would cost €48 billion a year ($66.3 billion).

Schram - Appendix A

Ordering Sensitivities

Discount Rate: 6.71%

	$M NPVRR	$000 2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
New Unit Capital and Production Cost																								
No Retirements	23,851	926,780	1,003,151	1,053,760	1,149,199	1,270,039	1,423,977	1,446,861	1,519,686	1,610,515	1,665,672	1,762,743	1,923,292	2,020,351	2,041,532	2,101,659	2,221,687	2,211,120	2,335,206	2,411,830	2,504,929	2,524,061	2,571,119	2,709,457
Retire BR1-2	24,508	926,780	1,003,151	1,058,950	1,182,018	1,301,845	1,433,437	1,457,713	1,535,642	1,645,141	1,738,930	1,884,530	1,979,472	2,009,370	2,096,257	2,243,247	2,406,557	2,333,106	2,407,747	2,437,050	2,537,380	2,639,176	2,749,891	2,841,257
Retire TY	23,965	926,780	1,003,151	1,058,950	1,182,469	1,305,576	1,420,360	1,440,334	1,514,315	1,607,252	1,664,220	1,765,829	1,929,765	2,032,618	2,045,012	2,101,615	2,226,460	2,216,711	2,358,303	2,452,223	2,546,407	2,560,123	2,597,296	2,691,885
Retire TY and BR1-2	24,586	926,780	1,003,151	1,058,950	1,179,208	1,299,520	1,436,233	1,461,332	1,546,518	1,696,604	1,806,619	1,897,344	1,992,692	2,024,430	2,056,272	2,150,083	2,360,995	2,390,827	2,455,934	2,476,231	2,557,494	2,595,236	2,646,797	2,810,641
Retire TY and GR3	24,049	926,780	1,003,151	1,057,547	1,168,920	1,281,257	1,392,648	1,420,671	1,529,821	1,669,254	1,722,893	1,802,428	1,916,058	1,999,533	2,090,925	2,162,859	2,271,198	2,254,616	2,332,047	2,368,433	2,494,554	2,580,435	2,689,165	2,784,618
Retire TY GR3 and BR3	25,046	926,780	1,003,151	1,058,950	1,180,150	1,298,761	1,451,939	1,491,467	1,614,939	1,778,479	1,823,950	1,905,346	2,014,029	2,061,569	2,150,511	2,306,433	2,412,827	2,396,992	2,472,597	2,501,412	2,606,680	2,706,857	2,819,335	2,896,688
Retire TY GR3 and CR4	24,494	926,780	1,003,151	1,058,950	1,179,785	1,302,620	1,434,299	1,457,196	1,535,062	1,645,243	1,739,547	1,890,227	1,978,735	2,007,959	2,093,422	2,238,666	2,406,900	2,327,077	2,405,219	2,430,413	2,533,957	2,600,031	2,692,026	2,862,486
Retire TY GR3 CR4 and CR6	25,174	926,780	1,003,151	1,058,950	1,181,336	1,304,856	1,463,604	1,498,691	1,627,421	1,796,065	1,837,903	1,914,220	2,026,705	2,070,931	2,156,076	2,317,366	2,467,635	2,410,137	2,486,655	2,518,070	2,615,594	2,705,672	2,827,716	2,918,498
Retire TY GR3 CR4 CR6 and BR1-2	25,849	926,780	1,003,151	1,058,950	1,177,788	1,304,845	1,550,872	1,635,791	1,713,147	1,795,940	1,850,299	1,948,717	2,120,800	2,221,388	2,253,105	2,341,468	2,466,021	2,451,373	2,544,567	2,639,385	2,807,434	2,810,900	2,858,530	2,956,454
Retire TY GR3 and CR	25,681	926,780	1,003,151	1,058,950	1,181,074	1,304,587	1,499,771	1,574,630	1,715,718	1,817,515	1,852,764	1,938,232	2,061,003	2,160,289	2,260,528	2,345,778	2,459,010	2,448,098	2,534,050	2,602,003	2,756,852	2,764,139	2,817,202	2,919,240
Retire TY GR3 CR and GH3	27,149	926,780	1,003,151	1,062,738	1,211,382	1,360,560	1,636,247	1,646,449	1,789,678	1,961,850	2,005,197	2,088,047	2,207,539	2,266,869	2,363,185	2,557,109	2,705,863	2,650,568	2,727,560	2,757,436	2,859,840	2,940,413	3,083,124	3,172,131
Retire TY GR3 CR and GH1	27,082	926,779	1,003,151	1,058,107	1,211,981	1,365,898	1,648,618	1,665,274	1,747,309	1,870,918	1,983,698	2,138,605	2,250,052	2,287,764	2,338,970	2,456,498	2,664,322	2,699,775	2,748,951	2,801,112	2,877,303	2,916,213	2,966,904	3,133,367
Retire TY GR and CR	25,828	926,780	1,003,151	1,058,950	1,175,508	1,303,762	1,552,488	1,633,981	1,714,700	1,795,010	1,851,416	1,948,759	2,113,294	2,221,679	2,248,525	2,342,977	2,460,571	2,449,218	2,544,282	2,628,540	2,808,539	2,806,893	2,858,732	2,951,330
Retire TY GR CR and BR1-2	26,571	926,780	1,003,151	1,062,738	1,202,518	1,351,590	1,594,874	1,616,563	1,734,100	1,886,709	1,932,043	2,019,485	2,147,925	2,253,380	2,367,096	2,455,461	2,571,712	2,557,063	2,648,094	2,731,403	2,899,738	2,915,097	2,968,178	3,064,150
Retire TY GR CR BR1-2 and MC1-2	28,916	926,780	1,003,151	1,064,141	1,213,748	1,359,248	1,875,746	1,834,599	1,995,652	2,082,876	2,112,077	2,220,740	2,364,950	2,491,731	2,638,742	2,721,775	2,842,959	2,819,496	2,921,614	3,014,554	3,188,384	3,191,229	3,239,558	3,346,502
Retire TY and GR	24,219	926,780	1,003,151	1,057,547	1,163,727	1,275,099	1,397,933	1,429,659	1,551,860	1,710,506	1,760,890	1,837,001	1,939,972	1,981,024	2,061,376	2,204,208	2,357,889	2,297,061	2,372,029	2,397,665	2,487,743	2,533,755	2,608,663	2,757,808
Retire TY GR and CR4	24,636	926,780	1,003,151	1,058,950	1,174,608	1,296,474	1,438,939	1,463,388	1,548,859	1,702,227	1,813,708	1,906,343	1,993,069	2,027,867	2,067,120	2,201,787	2,420,270	2,369,622	2,446,383	2,468,174	2,554,747	2,597,019	2,696,750	2,868,577
Retire TY GR and CR5	24,678	926,780	1,003,151	1,058,950	1,174,685	1,296,581	1,442,028	1,472,456	1,593,953	1,746,716	1,805,344	1,883,971	1,984,518	2,024,738	2,063,273	2,205,421	2,418,275	2,370,193	2,441,874	2,460,973	2,555,070	2,597,725	2,702,698	2,867,329
Retire TY GR and CR6	24,860	926,780	1,003,151	1,058,950	1,176,124	1,298,955	1,450,384	1,481,891	1,596,714	1,744,551	1,789,282	1,869,641	1,993,138	2,081,252	2,181,051	2,258,212	2,361,885	2,349,925	2,438,727	2,528,839	2,688,553	2,701,910	2,756,574	2,838,013
Retire TY GR CR and MC4	27,430	926,780	1,003,151	1,064,141	1,215,001	1,361,596	1,678,067	1,685,780	1,777,852	1,942,178	2,061,884	2,152,529	2,245,399	2,314,478	2,358,439	2,498,553	2,686,680	2,750,693	2,798,165	2,832,486	2,888,938	2,951,742	3,004,185	3,192,781
Retire TY GR CR and TC1	27,224	926,780	1,003,151	1,064,141	1,217,046	1,377,516	1,669,845	1,667,198	1,763,526	1,879,257	1,999,030	2,167,730	2,262,648	2,297,142	2,351,624	2,457,514	2,679,478	2,711,233	2,794,306	2,800,670	2,898,348	2,915,216	2,987,929	3,121,672
Retire TY GR CR and GH4	27,521	926,780	1,003,151	1,064,141	1,217,046	1,378,391	1,687,924	1,686,939	1,781,846	1,947,193	2,067,071	2,156,002	2,251,352	2,316,440	2,365,388	2,501,578	2,712,547	2,761,504	2,815,674	2,813,175	2,922,817	2,956,171	3,077,297	3,251,185
Retire TY GR CR and MC3	27,117	926,780	1,003,151	1,061,866	1,213,494	1,371,895	1,657,577	1,665,771	1,754,123	1,860,647	1,988,186	2,154,610	2,253,259	2,287,571	2,342,236	2,460,207	2,664,772	2,690,974	2,783,097	2,794,575	2,887,120	2,908,273	2,976,382	3,122,929
Retire TY GR CR and GH2	27,517	926,780	1,003,025	1,062,646	1,213,868	1,364,078	1,684,151	1,690,856	1,788,226	1,934,251	2,072,617	2,156,319	2,264,850	2,316,402	2,374,440	2,498,013	2,688,836	2,761,542	2,818,309	2,836,960	2,918,127	2,967,595	3,073,186	3,235,706
Retire TY GR CR and MC1-2	28,011	926,780	1,003,151	1,064,141	1,217,046	1,364,576	1,739,191	1,725,323	1,865,017	2,036,640	2,077,060	2,171,205	2,293,218	2,361,300	2,459,713	2,632,810	2,772,458	2,715,502	2,818,488	2,908,426	3,085,046	3,084,909	3,136,766	3,239,987
Production Cost																								
No Retirements	21,954	926,780	1,003,151	1,053,760	1,143,879	1,227,463	1,341,489	1,325,184	1,403,272	1,498,996	1,558,718	1,653,731	1,773,993	1,827,481	1,817,990	1,874,616	2,004,398	1,997,835	2,093,443	2,138,593	2,210,981	2,232,393	2,285,749	2,392,562
Retire BR1-2	22,324	926,780	1,003,151	1,053,759	1,140,480	1,221,369	1,314,727	1,344,138	1,426,843	1,536,403	1,603,599	1,720,151	1,794,879	1,816,790	1,865,012	1,969,743	2,104,096	2,030,011	2,117,837	2,159,905	2,264,724	2,322,146	2,383,268	2,441,150
Retire TY	21,964	926,780	1,003,151	1,053,759	1,140,931	1,225,100	1,301,651	1,326,759	1,405,516	1,502,907	1,564,037	1,663,223	1,786,650	1,845,837	1,827,465	1,880,473	2,014,978	2,007,155	2,106,290	2,153,768	2,216,317	2,228,792	2,278,981	2,379,916
Retire TY and BR1-2	22,330	926,780	1,003,151	1,053,759	1,137,670	1,219,044	1,317,523	1,347,757	1,431,847	1,545,263	1,615,385	1,677,934	1,770,213	1,811,191	1,851,902	1,947,267	2,117,530	2,103,086	2,138,156	2,158,408	2,254,257	2,305,028	2,359,809	2,476,707
Retire TY and GR3	21,946	926,780	1,003,151	1,053,760	1,138,612	1,222,537	1,306,031	1,333,620	1,416,981	1,528,302	1,562,144	1,639,652	1,753,444	1,797,907	1,846,813	1,889,270	1,995,880	1,991,156	2,080,035	2,120,502	2,233,480	2,264,269	2,320,253	2,383,043
Retire TY GR3 and BR3	22,613	926,780	1,003,151	1,053,759	1,138,612	1,218,285	1,333,229	1,372,163	1,460,291	1,585,303	1,603,642	1,682,260	1,800,050	1,849,690	1,900,524	2,014,727	2,092,816	2,077,222	2,166,995	2,209,558	2,320,298	2,377,083	2,440,950	2,485,802
Retire TY GR3 and CR4	22,289	926,780	1,003,151	1,053,759	1,138,247	1,222,144	1,315,589	1,343,621	1,426,263	1,536,505	1,604,216	1,725,848	1,794,142	1,815,379	1,862,177	1,965,162	2,104,439	2,023,982	2,115,309	2,153,268	2,262,026	2,314,544	2,349,704	2,466,568
Retire TY GR3 CR4 and CR6	22,741	926,780	1,003,151	1,053,759	1,139,798	1,224,380	1,344,894	1,379,387	1,472,773	1,602,889	1,617,595	1,691,134	1,812,726	1,859,052	1,906,089	2,025,660	2,147,624	2,090,367	2,181,053	2,226,216	2,329,212	2,375,898	2,449,331	2,507,612
Retire TY GR3 CR4 CR6 and BR1-2	23,169	926,780	1,003,151	1,053,759	1,136,250	1,218,916	1,388,522	1,437,666	1,490,012	1,570,901	1,634,495	1,735,218	1,871,211	1,932,272	1,937,230	2,026,005	2,164,225	2,162,845	2,261,429	2,316,190	2,440,275	2,413,996	2,463,063	2,576,991
Retire TY GR3 and CR	23,078	926,780	1,003,151	1,053,759	1,139,536	1,224,111	1,375,472	1,416,324	1,520,256	1,595,975	1,628,870	1,723,439	1,848,351	1,910,550	1,970,180	2,027,907	2,141,467	2,144,469	2,238,441	2,281,120	2,407,624	2,396,483	2,453,569	2,564,920
Retire TY GR3 CR and GH3	24,070	926,780	1,003,151	1,053,760	1,139,536	1,221,364	1,438,131	1,443,324	1,554,731	1,691,660	1,710,943	1,793,890	1,925,271	1,989,484	2,050,475	2,205,463	2,328,695	2,276,424	2,370,367	2,416,774	2,527,433	2,566,571	2,661,801	2,719,438
Retire TY GR3 CR and GH1	24,026	926,779	1,003,151	1,047,726	1,128,906	1,204,946	1,421,081	1,436,822	1,528,461	1,655,004	1,734,001	1,851,592	1,937,751	1,976,037	2,040,433	2,163,791	2,335,200	2,330,445	2,353,505	2,409,543	2,504,242	2,558,971	2,616,781	2,753,664
Retire TY GR and CR	23,148	926,780	1,003,151	1,053,759	1,133,970	1,217,833	1,390,138	1,435,856	1,491,565	1,569,971	1,635,612	1,735,260	1,863,705	1,932,563	1,932,650	2,027,514	2,158,775	2,160,690	2,261,144	2,305,345	2,441,380	2,409,989	2,463,265	2,571,867
Retire TY GR CR and BR1-2	23,566	926,780	1,003,151	1,053,760	1,130,672	1,212,394	1,396,758	1,414,986	1,511,549	1,640,533	1,670,264	1,759,608	1,892,015	1,962,262	2,037,296	2,099,987	2,218,313	2,219,326	2,318,092	2,363,643	2,490,135	2,476,886	2,531,716	2,645,193
Retire TY GR CR BR1-2 and MC1-2	25,437	926,780	1,003,151	1,053,760	1,130,673	1,198,296	1,642,620	1,561,415	1,690,140	1,755,787	1,786,840	1,908,543	2,058,708	2,152,216	2,262,432	2,321,756	2,447,082	2,441,347	2,553,267	2,610,515	2,744,569	2,720,567	2,772,099	2,898,002
Retire TY and GR	22,041	926,780	1,003,151	1,053,760	1,133,419	1,216,379	1,311,316	1,341,059	1,426,625	1,545,539	1,567,666	1,639,944	1,751,001	1,793,132	1,834,355	1,934,447	2,058,802	1,997,194	2,085,309	2,123,672	2,226,099	2,275,953	2,335,981	2,427,193
Retire TY GR and CR4	22,316	926,780	1,003,151	1,053,759	1,133,070	1,215,998	1,320,230	1,349,813	1,434,188	1,550,886	1,622,474	1,686,933	1,770,590	1,814,628	1,855,939	1,951,451	2,127,077	2,047,322	2,124,236	2,160,455	2,261,025	2,307,696	2,361,769	2,483,731
Retire TY GR and CR5	22,321	926,780	1,003,151	1,053,759	1,133,147	1,216,105	1,323,318	1,353,152	1,439,305	1,553,540	1,585,036	1,660,885	1,770,539	1,819,503	1,859,647	1,962,230	2,131,980	2,054,686	2,126,415	2,159,836	2,267,825	2,314,773	2,373,983	2,488,644
Retire TY GR and CR6	22,495	926,780	1,003,151	1,053,759	1,134,586	1,218,479	1,331,674	1,364,136	1,454,461	1,575,390	1,601,449	1,680,836	1,805,516	1,855,639	1,913,973	1,962,678	2,065,643	2,066,562	2,160,315	2,209,887	2,324,975	2,307,768	2,363,050	2,460,863
Retire TY GR CR and MC4	24,288	926,780	1,003,151	1,053,760	1,131,926	1,200,644	1,450,530	1,457,328	1,553,131	1,685,288	1,769,306	1,835,715	1,929,330	2,011,463	2,068,107	2,213,589	2,364,882	2,388,433	2,409,682	2,447,771	2,522,623	2,601,138	2,658,350	2,801,549
Retire TY GR CR and TC1	24,168	926,780	1,003,151	1,053,760	1,133,971	1,216,564	1,442,308	1,438,746	1,544,678	1,663,343	1,749,333	1,880,717	1,950,347	1,985,415	2,053,087	2,164,807	2,350,356	2,341,903	2,398,860	2,409,101	2,525,287	2,557,974	2,637,807	2,741,969
Retire TY GR CR and GH4	24,348	926,780	1,003,151	1,053,760	1,133,971	1,217,439	1,460,387	1,458,487	1,557,125	1,690,303	1,774,493	1,839,188	1,935,283	2,013,425	2,075,056	2,216,614	2,390,749	2,399,244	2,427,191	2,428,461	2,556,502	2,597,472	2,674,976	2,800,842
Retire TY GR CR and MC3	24,061	926,780	1,003,151	1,051,485	1,130,419	1,210,943	1,430,040	1,437,319	1,535,275	1,644,733	1,738,489	1,867,596	1,940,958	1,975,844	2,043,699	2,167,500	2,335,650	2,321,644	2,387,651	2,403,006	2,514,059	2,551,031	2,626,260	2,743,226
Retire TY GR CR and GH2	24,344	926,780	1,003,025	1,052,265	1,130,793	1,203,126	1,456,614	1,462,404	1,563,505	1,677,361	1,780,039	1,839,505	1,948,781	2,013,387	2,084,108	2,213,049	2,367,038	2,399,282	2,429,826	2,452,245	2,551,812	2,608,896	2,670,865	2,785,363
Retire TY GR CR and MC1-2	24,729	926,780	1,003,151	1,053,760	1,133,971	1,203,624	1,511,654	1,491,141	1,600,319	1,737,915	1,755,409	1,850,716	1,985,649	2,061,442	2,138,139	2,286,806	2,411,774	2,360,967	2,472,747	2,526,048	2,662,002	2,634,037	2,687,999	2,809,081
Production Cost Delta																								
No Retirements																								
Retire BR1-2	371	0	0	-1	-3,398	-6,094	-26,762	18,955	23,571	37,407	44,881	66,419	20,886	-10,691	47,022	95,127	99,698	32,176	24,394	21,312	53,744	89,753	97,518	48,588
Retire TY	10	0	0	-1	-2,947	-2,363	-39,838	1,576	2,244	3,910	5,319	9,491	12,657	18,357	9,475	5,857	10,579	9,320	12,848	15,175	5,336	-3,601	-6,769	-12,646
Retire TY and BR1-2	366	0	0	0	-3,261	-6,056	15,873	20,998	26,330	42,356	51,348	14,711	-16,437	-34,646	24,437	66,794	102,553	95,932	31,866	4,640	37,940	76,236	80,828	96,791
Retire TY and GR3	-18	0	0	0	-2,320	-2,563	4,380	6,861	11,464	25,395	-1,893	-23,571	-33,206	-47,930	19,348	8,797	-19,098	-15,999	-26,255	-33,266	17,164	35,477	41,273	3,127
Retire TY GR3 and BR3	667	0	0	0	1	-4,252	27,199	38,543	43,310	57,001	41,498	42,608	46,606	51,783	53,710	125,457	96,936	86,067	86,960	89,055	86,817	112,815	120,697	102,759
Retire TY GR3 and CR4	343	0	0	0	-364	-393	9,559	10,001	9,283	8,204	42,072	86,196	40,698	17,472	15,364	75,892	108,560	32,826	35,274	32,766	28,546	50,276	29,451	83,525
Retire TY GR3 CR4 and CR6	452	0	0	0	1,551	2,236	29,305	35,766	46,509	66,384	13,379	-34,714	18,583	43,673	43,911	60,498	43,184	66,385	65,744	72,948	67,185	61,354	99,627	41,044
Retire TY GR3 CR4 CR6 and BR1-2	428	0	0	0	-3,548	-5,464	43,628	58,279	17,239	-31,988	16,900	44,084	58,485	73,221	31,142	346	16,602	72,478	80,376	89,974	111,064	38,098	13,732	69,379
Retire TY GR3 and CR	337	0	0	0	-262	-269	30,577	36,937	47,483	-6,914	11,275	32,305	35,625	51,498	64,091	2,248	-6,157	54,102	57,386	54,904	78,413	20,585	4,238	57,308
Retire TY GR3 CR and GH3	993	0	0	1	0	-2,747	62,659	27,000	34,476	95,685	82,073	70,451	76,921	78,935	80,295	177,556	187,228	131,955	131,926	135,654	119,808	170,088	208,233	154,518
Retire TY GR3 CR and GH1	949	0	0	-6,034	-10,631	-19,165	45,610	20,498	8,206	59,030	105,131	128,153	89,400	65,487	70,254	135,883	193,733	185,975	115,065	128,423	96,617	162,488	163,213	188,745
Retire TY GR and CR	71	0	0	0	-5,566	-6,278	14,666	19,532	-28,691	-26,003	6,742	11,822	15,354	22,014	-37,529	-393	17,308	16,220	22,703	24,225	33,756	13,506	9,697	6,947
Retire TY GR CR and BR1-2	418	0	0	1	-3,298	-5,439	6,620	-20,870	19,984	70,562	34,652	24,348	28,310	29,698	104,645	72,473	59,538	58,636	56,948	58,298	48,755	66,898	68,451	73,326
Retire TY GR CR BR1-2 and MC1-2	1,872	0	0	0	1	-14,098	245,862	146,429	178,592	115,253	116,576	148,935	166,693	189,955	225,136	221,770	228,769	222,022	235,175	246,873	254,434	243,681	240,383	252,809
Retire TY and GR	96	0	0	0	-5,193	-6,158	5,285	7,439	9,644	17,237	5,522	293	-2,443	-4,775	-12,459	45,177	62,922	6,039	5,274	3,169	-7,382	11,685	15,728	44,150
Retire TY GR and CR4	275	0	0	0	-348	-381	8,914	8,754	7,563	5,347	54,808	46,988	19,589	21,496	21,585	17,004	68,276	50,128	38,928	36,783	34,926	31,743	25,787	56,538
Retire TY GR and CR5	280	0	0	0	-271	-274	12,003	12,093	12,680	8,001	17,370	20,941	19,538	26,371	25,292	27,783	73,178	57,492	41,106	36,164	41,726	38,820	38,002	61,451

Ordering Sensitivities

Discount Rate: 6.71%

	$M NPVRR	$000 2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Retire TY GR and CR6	453	0	0	0	1,168	2,100	20,359	23,077	27,836	29,851	33,783	40,891	54,515	62,507	79,619	28,231	6,841	69,368	75,007	86,215	98,877	31,814	27,069	33,670
Retire TY GR CR and MC4	1,140	0	0	0	-2,045	-17,189	60,392	21,471	61,567	115,317	133,694	100,455	65,625	78,900	135,457	186,075	206,107	227,743	148,538	142,427	81,243	191,150	195,085	229,682
Retire TY GR CR and TC1	1,020	0	0	0	0	-1,269	52,170	2,889	53,113	93,372	113,720	145,456	86,642	52,851	120,437	137,292	191,581	181,213	137,717	103,756	83,907	147,985	174,541	170,102
Retire TY GR CR and GH4	1,200	0	0	0	0	-394	70,249	22,630	65,561	120,332	138,881	103,928	71,578	80,862	142,406	189,100	231,974	238,554	166,047	123,116	115,122	187,483	211,710	228,975
Retire TY GR CR and MC3	913	0	0	-2,275	-3,552	-6,890	39,902	1,462	43,710	74,762	102,876	132,336	77,253	43,280	111,049	139,985	176,875	160,954	126,508	97,661	72,679	141,042	162,994	171,359
Retire TY GR CR and GH2	1,195	0	-126	-1,495	-3,178	-14,707	66,476	26,547	71,941	107,390	144,427	104,245	85,076	80,824	151,458	185,535	208,263	238,592	168,682	146,901	110,432	198,907	207,599	213,496
Retire TY GR CR and MC1-2	1,580	0	0	0	0	-14,209	121,516	55,285	108,755	167,944	119,796	115,455	121,944	128,878	205,488	259,292	252,999	200,278	211,603	220,703	220,622	224,048	224,734	237,214
New Unit Capital																								
No Retirements	1,898	0	0	0	5,320	42,576	82,488	121,677	116,414	111,519	106,954	109,012	149,299	192,870	223,542	227,043	217,289	213,285	241,764	273,237	293,948	291,668	285,370	316,895
Retire BR1-2	2,184	0	0	5,191	41,538	80,476	118,710	113,575	108,799	108,738	135,331	164,380	184,593	192,580	231,245	273,504	302,461	303,095	289,910	277,145	272,656	317,030	366,623	400,107
Retire TY	2,002	0	0	5,191	41,538	80,476	118,710	113,575	108,799	104,346	100,183	102,607	143,115	186,781	217,547	221,142	211,482	209,556	252,013	298,455	330,090	331,331	318,315	311,969
Retire TY and BR1-2	2,256	0	0	5,191	41,538	80,476	118,710	113,575	114,671	151,342	191,234	219,410	222,479	213,239	204,371	202,816	243,465	287,741	317,778	317,823	303,237	290,208	286,988	333,935
Retire TY and GR3	2,103	0	0	3,787	30,308	58,720	86,617	87,051	112,840	140,952	160,749	162,776	162,614	201,626	244,112	273,589	275,318	263,460	252,012	247,931	261,074	316,166	368,912	401,575
Retire TY GR3 and BR3	2,433	0	0	5,191	41,538	80,476	118,710	119,304	154,648	193,176	220,308	223,086	213,979	211,879	249,988	291,706	320,011	319,770	305,602	291,854	286,382	329,774	378,385	410,886
Retire TY GR3 and CR4	2,205	0	0	5,191	41,538	80,476	118,710	113,575	108,799	108,738	135,331	164,379	184,593	192,580	231,245	273,504	302,461	303,095	289,910	277,145	271,931	285,487	342,322	395,918
Retire TY GR3 CR4 and CR6	2,433	0	0	5,191	41,538	80,476	118,710	119,304	154,648	193,176	220,308	223,086	213,979	211,879	249,988	291,706	320,011	319,770	305,602	291,854	286,382	329,774	378,385	410,886
Retire TY GR3 CR4 CR6 and BR1-2	2,680	0	0	5,191	41,538	85,929	162,350	198,125	223,135	225,039	215,804	213,499	249,589	289,116	315,875	315,463	301,796	288,528	283,138	323,195	367,159	396,904	395,467	379,463
Retire TY GR3 and CR	2,604	0	0	5,191	41,538	80,476	124,299	158,306	195,463	221,541	223,894	214,793	212,652	249,739	290,348	317,871	317,543	303,629	295,610	320,883	349,228	367,656	363,633	354,320
Retire TY GR3 CR and GH3	3,079	0	0	8,978	71,846	139,196	198,116	203,125	234,947	270,191	294,254	294,157	282,268	277,385	312,710	351,646	377,168	374,144	357,193	340,662	332,408	373,842	421,323	452,694
Retire TY GR3 CR and GH1	3,055	0	0	10,381	83,075	160,952	227,537	228,452	218,848	215,914	249,697	287,014	312,301	311,727	298,537	292,708	329,122	369,331	395,446	391,569	373,061	357,242	350,123	379,703
Retire TY GR and CR	2,680	0	0	5,191	41,538	85,929	162,350	198,125	223,135	225,039	215,804	213,499	249,589	289,116	315,875	315,463	301,796	288,529	283,138	323,195	367,159	396,904	395,467	379,463
Retire TY GR CR and BR1-2	3,005	0	0	8,978	71,846	139,196	198,116	201,577	222,551	246,176	261,779	259,877	255,910	291,118	329,800	355,474	353,399	337,737	330,003	367,760	409,603	438,211	436,462	418,957
Retire TY GR CR BR1-2 and MC1-2	3,479	0	0	10,381	83,075	160,952	233,127	273,184	305,512	327,089	325,237	312,197	306,242	339,515	376,310	400,019	395,877	378,149	368,347	404,039	443,815	470,662	467,459	448,500
Retire TY and GR	2,178	0	0	3,787	30,308	58,720	86,617	88,600	125,235	164,967	193,224	197,057	188,971	187,892	227,022	269,761	299,087	299,867	286,720	273,994	261,645	257,802	272,682	330,615
Retire TY GR and CR4	2,320	0	0	5,191	41,538	80,476	118,710	113,575	114,671	151,342	191,234	219,410	222,479	213,239	211,181	250,337	293,193	322,300	322,147	307,719	293,722	289,323	334,981	384,846
Retire TY GR and CR5	2,357	0	0	5,191	41,538	80,476	118,710	119,304	154,648	193,176	220,308	223,086	213,979	205,235	203,626	243,191	286,295	315,507	315,459	301,137	287,245	282,952	328,715	378,685
Retire TY GR and CR6	2,366	0	0	5,191	41,538	80,476	118,710	117,755	142,253	169,161	187,833	188,805	187,622	225,613	267,078	295,535	296,242	283,363	278,412	318,952	363,578	394,142	393,524	377,150
Retire TY GR CR and MC4	3,142	0	0	10,381	83,075	160,952	227,537	228,452	224,721	256,890	292,578	316,814	316,069	303,015	290,332	284,964	321,798	362,260	388,483	384,715	366,315	350,604	345,835	391,232
Retire TY GR CR and TC1	3,055	0	0	10,381	83,075	160,952	227,537	228,452	218,848	215,914	249,697	287,014	312,301	311,727	298,537	292,708	329,122	369,330	395,446	391,569	373,061	357,242	350,123	379,703
Retire TY GR CR and GH4	3,173	0	0	10,381	83,075	160,952	227,537	228,452	224,721	256,890	292,578	316,814	316,069	303,015	290,332	284,964	321,798	362,260	388,483	384,715	366,315	358,699	402,322	450,343
Retire TY GR CR and MC3	3,055	0	0	10,381	83,075	160,952	227,537	228,452	218,848	215,914	249,697	287,014	312,301	311,727	298,537	292,708	329,122	369,331	395,446	391,569	373,061	357,242	350,123	379,703
Retire TY GR CR and GH2	3,173	0	0	10,381	83,075	160,952	227,537	228,452	224,721	256,890	292,578	316,814	316,069	303,015	290,332	284,964	321,798	362,260	388,483	384,715	366,315	358,699	402,322	450,343
Retire TY GR CR and MC1-2	3,282	0	0	10,381	83,075	160,952	227,537	234,182	264,698	298,725	321,651	320,490	307,569	299,859	321,575	346,004	360,684	354,535	345,741	382,378	423,044	450,872	448,767	430,906
New Unit Capital Delta																								
No Retirements																								
Retire BR1-2	286	0	0	5,191	36,217	37,900	36,222	-8,103	-7,615	-2,781	28,377	55,368	35,294	-290	7,703	46,461	85,172	89,810	48,147	3,908	-21,293	25,362	81,254	83,212
Retire TY	104	0	0	5,191	36,217	37,900	36,221	-8,103	-7,615	-7,173	-6,771	-6,405	-6,184	-6,090	-5,995	-5,901	-5,806	-3,729	10,249	25,218	36,142	39,663	32,946	-4,926
Retire TY and BR1-2	255	0	0	0	0	0	0	0	5,873	46,996	91,051	116,804	79,364	26,458	-13,177	-18,326	31,982	78,184	65,765	19,368	-26,853	-41,123	-31,327	21,966
Retire TY and GR3	101	0	0	-1,403	-11,229	-21,756	-32,092	-26,524	4,042	36,607	60,566	60,170	19,499	14,845	26,565	52,447	63,836	53,904	-1	-50,524	-69,017	-15,165	50,597	89,606
Retire TY GR3 and BR3	330	0	0	1,403	11,229	21,756	32,092	32,253	41,808	52,224	59,559	60,310	51,365	10,253	5,876	18,117	44,693	56,310	53,590	43,924	25,309	13,608	9,473	9,312
Retire TY GR3 and CR4	102	0	0	1,403	11,229	21,756	32,092	26,524	-4,042	-32,215	-25,418	1,603	21,979	-9,046	-12,867	-85	27,143	39,635	37,898	29,214	10,857	-30,680	-26,590	-5,657
Retire TY GR3 CR4 and CR6	228	0	0	0	0	0	0	5,730	45,850	84,438	84,977	58,707	29,387	19,299	18,743	18,202	17,551	16,675	15,692	14,709	14,452	44,287	36,063	14,968
Retire TY GR3 CR4 CR6 and BR1-2	247	0	0	0	0	5,453	43,640	78,821	68,487	31,863	-4,504	-9,587	35,610	77,237	65,887	23,756	-18,216	-31,242	-22,464	31,341	80,777	67,130	17,082	-31,423
Retire TY GR3 and CR	170	0	0	0	0	0	5,590	39,002	40,814	28,364	3,586	-8,293	-1,327	37,860	40,361	26,165	-2,468	-16,141	-9,993	29,029	62,845	37,882	-14,752	-56,566
Retire TY GR3 CR and GH3	476	0	0	3,787	30,308	58,720	73,817	44,819	39,484	48,650	70,360	79,364	69,615	27,646	22,362	33,775	59,625	70,515	61,584	19,779	-16,820	6,186	57,689	98,373
Retire TY GR3 CR and GH1	452	0	0	5,191	41,538	80,476	103,238	70,146	23,385	-5,627	25,804	72,220	99,649	61,988	8,188	-25,163	11,579	65,702	99,836	70,686	23,834	-10,414	-13,511	25,382
Retire TY GR and CR	76	0	0	0	0	5,453	38,051	39,819	27,673	3,498	-8,090	-1,295	36,937	39,377	25,526	-2,408	-15,747	-15,100	-12,471	2,312	17,931	29,248	31,833	25,143
Retire TY GR CR and BR1-2	325	0	0	3,787	30,308	53,267	35,766	3,452	-584	21,137	45,975	46,378	6,321	2,003	13,926	40,011	51,603	49,209	46,864	44,565	42,444	41,307	40,995	39,494
Retire TY GR CR BR1-2 and MC1-2	474	0	0	1,403	11,229	21,756	35,010	71,607	82,961	80,914	63,458	52,320	50,332	48,397	46,510	44,545	42,478	40,411	38,345	36,278	34,212	32,451	30,997	29,543
Retire TY and GR	75	0	0	0	0	0	0	1,549	12,395	24,015	32,475	34,280	26,357	-13,734	-17,090	-3,828	23,769	36,407	34,708	26,063	571	-58,365	-96,230	-70,960
Retire TY GR and CR4	142	0	0	1,403	11,229	21,756	32,092	24,975	-10,564	-13,626	-1,990	22,354	33,508	25,347	-15,841	-19,425	-5,895	22,433	35,427	33,726	32,078	31,522	62,300	54,231
Retire TY GR and CR5	179	0	0	1,403	11,229	21,756	32,092	30,704	29,413	28,209	27,084	26,029	25,008	17,343	-23,395	-26,570	-12,792	15,641	28,739	27,144	25,601	25,150	56,033	48,070
Retire TY GR and CR6	188	0	0	1,403	11,229	21,756	32,092	29,155	17,018	4,194	-5,391	-8,251	-1,349	37,721	40,056	25,773	-2,845	-16,504	-8,309	44,959	101,933	136,341	120,842	46,535
Retire TY GR CR and MC4	462	0	0	5,191	41,538	75,023	65,187	30,328	1,585	31,851	76,774	103,315	66,480	13,899	-25,543	-30,499	20,002	73,732	105,345	61,519	-844	-46,301	-49,632	11,769
Retire TY GR CR and TC1	375	0	0	5,191	41,538	75,023	65,187	30,328	-4,287	-9,125	33,894	73,515	62,712	22,612	-17,338	-22,755	27,327	80,802	112,307	68,374	5,903	-39,662	-45,344	240
Retire TY GR CR and GH4	494	0	0	5,191	41,538	75,023	65,187	30,328	1,585	31,851	76,774	103,315	66,480	13,899	-25,543	-30,499	20,002	73,732	105,345	61,519	-844	-38,205	6,855	70,880
Retire TY GR CR and MC3	375	0	0	5,191	41,538	75,023	65,187	30,328	-4,287	-9,125	33,894	73,515	62,712	22,612	-17,338	-22,755	27,326	80,802	112,307	68,374	5,903	-39,662	-45,344	240
Retire TY GR CR and GH2	494	0	0	5,191	41,538	75,023	65,187	30,328	1,585	31,851	76,774	103,315	66,480	13,899	-25,543	-30,499	20,002	73,732	105,345	61,519	-844	-38,205	6,855	70,880
Retire TY GR CR and MC1-2	602	0	0	5,191	41,538	75,023	65,187	36,057	41,563	73,686	105,848	106,991	57,980	10,743	5,700	30,542	58,888	66,006	62,603	59,183	55,885	53,968	53,300	51,443
New Controls Capital																								
No Retirements	3,614	5,931	66,348	200,982	360,111	446,379	457,561	434,784	413,355	392,884	372,657	352,470	332,282	312,094	291,915	274,128	260,867	250,426	240,933	231,711	204,492	180,312	173,301	146,775
Retire BR1-2	3,382	5,442	59,842	185,377	333,536	418,636	431,236	409,740	389,475	370,149	351,068	332,025	312,983	293,941	274,906	257,903	245,064	235,044	225,973	217,173	190,376	166,617	160,028	133,923
Retire TY	3,568	5,931	65,025	196,834	354,404	440,980	452,440	429,914	408,714	388,467	368,466	348,504	328,541	308,579	288,624	270,993	257,818	247,462	238,055	228,918	201,786	177,691	170,765	144,325
Retire TY and BR1-2	3,335	5,442	58,519	181,229	327,829	413,237	426,114	404,870	384,834	365,733	346,877	328,060	309,242	290,425	271,616	254,768	242,015	232,081	223,095	214,380	187,669	163,996	157,492	131,474
Retire TY and GR3	3,522	5,931	63,702	192,687	348,698	435,581	447,318	425,044	404,073	384,051	364,275	344,538	324,801	305,063	285,334	267,858	254,769	244,499	235,177	226,126	199,079	175,070	168,230	141,875
Retire TY GR3 and BR3	3,412	5,931	63,498	189,833	341,102	422,143	433,198	411,641	391,316	371,880	352,680	333,519	314,358	295,197	276,044	259,143	246,444	236,376	227,257	218,409	191,565	167,758	161,121	134,969
Retire TY GR3 and CR4	3,217	4,867	56,370	169,126	304,277	393,642	407,665	387,508	368,506	350,431	332,602	314,811	297,020	279,229	261,447	245,466	233,421	224,196	215,918	207,912	181,909	175,070	168,230	141,875
Retire TY GR3 CR4 and CR6	2,805	2,833	45,919	136,980	246,527	339,098	356,062	338,616	322,129	306,536	291,188	275,880	260,571	245,262	229,961	215,853	205,070	197,107	190,092	183,348	158,607	153,030	147,452	141,875
Retire TY GR3 CR4 CR6 and BR1-2	2,572	2,344	39,413	121,375	219,952	311,354	329,736	313,572	298,249	283,801	269,599	255,435	241,272	227,108	212,953	199,628	189,267	181,725	175,132	168,810	144,491	139,335	134,179	129,024
Retire TY GR3 and CR	2,484	1,786	38,065	111,787	196,784	294,032	313,468	298,316	283,969	270,491	257,258	244,064	230,871	217,677	204,491	192,024	182,408	175,611	169,763	164,185	158,607	153,030	147,452	141,875
Retire TY GR3 CR and GH3	2,301	1,671	37,500	106,638	188,044	273,909	289,887	275,771	262,450	249,916	237,588	225,298	213,009	200,719	188,437	176,850	168,092	161,891	156,372	151,118	145,864	140,610	135,356	130,102

Ordering Sensitivities

Discount Rate: 6.71%

	$M NPVRR	$000 2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Retire TY GR3 CR and GH1	2,312	1,600	33,171	100,624	179,084	272,757	293,301	279,160	265,739	253,174	240,854	228,573	216,291	204,010	191,737	179,921	170,696	164,290	158,833	153,646	148,460	143,273	138,086	132,900
Retire TY GR and CR	2,417	1,786	36,180	105,877	190,031	285,759	305,631	290,878	276,898	263,781	250,910	238,078	225,246	212,414	199,589	187,384	177,930	171,296	165,611	160,196	154,781	149,366	143,951	138,537
Retire TY GR CR and BR1-2	2,184	1,297	29,674	90,272	163,456	258,016	279,305	265,834	253,018	241,046	229,321	217,634	205,947	194,260	182,581	171,159	162,127	155,915	150,651	145,658	140,665	135,672	130,678	125,685
Retire TY GR CR BR1-2 and MC1-2	1,518	1,297	22,468	65,362	119,090	174,317	189,141	180,440	171,996	164,052	156,297	148,581	140,865	133,149	125,440	117,989	111,864	107,495	104,073	100,923	97,772	94,622	91,471	88,321
Retire TY and GR	3,454	5,931	61,817	186,777	339,945	427,308	439,482	417,607	397,002	377,342	357,927	338,552	319,176	299,800	280,432	263,218	250,291	240,184	231,025	222,137	195,252	171,406	164,729	138,537
Retire TY GR and CR4	3,150	4,867	54,485	163,216	295,525	385,369	399,829	380,070	361,435	343,722	326,254	308,825	291,395	273,966	256,545	240,826	228,944	219,881	211,767	203,923	178,083	171,406	164,729	138,537
Retire TY GR and CR5	3,134	4,884	53,963	161,584	292,202	382,242	396,888	377,306	358,842	341,297	323,997	306,736	289,476	272,215	254,962	239,389	227,629	218,688	210,696	202,974	195,252	171,406	164,729	138,537
Retire TY GR and CR6	3,042	3,898	51,366	154,631	282,195	372,764	387,878	368,715	350,624	333,446	316,514	299,620	282,726	265,833	248,947	233,605	221,940	213,095	205,199	197,573	171,950	149,366	143,951	138,537
Retire TY GR CR and MC4	2,000	924	23,470	79,204	152,023	234,493	256,199	243,819	232,033	221,025	210,258	199,530	188,801	178,073	167,344	157,227	149,316	143,650	138,903	134,426	129,949	125,472	120,995	116,518
Retire TY GR CR and TC1	2,300	1,786	36,180	103,677	184,286	273,792	289,798	275,655	262,395	249,943	237,710	225,514	213,319	201,123	188,935	177,366	168,549	162,378	156,974	151,833	146,692	141,551	136,410	131,270
Retire TY GR CR and GH4	2,243	1,664	35,653	102,060	180,415	268,840	282,440	268,854	255,934	243,789	231,814	219,842	207,870	195,898	183,934	172,589	163,972	158,150	153,030	147,934	142,838	137,741	132,645	127,549
Retire TY GR CR and MC3	2,187	1,786	34,801	96,487	172,591	260,220	276,113	262,568	249,930	238,075	226,434	214,829	203,225	191,620	180,024	169,022	160,649	154,790	149,666	144,802	139,938	135,073	130,209	125,345
Retire TY GR CR and GH2	2,256	1,775	32,669	97,613	174,080	266,570	287,212	273,287	260,063	247,668	235,517	223,405	211,293	199,182	187,078	175,581	166,604	160,218	154,770	149,593	144,416	139,239	134,062	128,884
Retire TY GR CR and MC1-2	1,750	1,786	28,974	80,967	145,665	202,060	215,466	205,484	195,876	186,786	177,886	169,025	160,164	151,302	142,449	134,214	127,668	122,876	119,033	115,461	111,889	108,316	104,744	101,172
New Controls Capital Delta																								
No Retirements																								
Retire BR1-2	-232	-489	-6,506	-15,605	-26,575	-27,743	-26,326	-25,044	-23,880	-22,735	-21,590	-20,444	-19,299	-18,154	-17,009	-16,225	-15,803	-15,382	-14,960	-14,538	-14,116	-13,695	-13,273	-12,851
Retire TY	-46	0	-1,323	-4,148	-5,707	-5,399	-5,121	-4,870	-4,641	-4,416	-4,191	-3,966	-3,741	-3,516	-3,290	-3,135	-3,049	-2,964	-2,878	-2,792	-2,707	-2,621	-2,536	-2,450
Retire TY and BR1-2	-232	-489	-6,506	-15,605	-26,575	-27,743	-26,326	-25,044	-23,880	-22,735	-21,590	-20,444	-19,299	-18,154	-17,009	-16,225	-15,803	-15,382	-14,960	-14,538	-14,116	-13,695	-13,273	-12,851
Retire TY and GR3	-46	0	-1,323	-4,148	-5,707	-5,399	-5,121	-4,870	-4,641	-4,416	-4,191	-3,966	-3,741	-3,516	-3,290	-3,135	-3,049	-2,964	-2,878	-2,792	-2,707	-2,621	-2,536	-2,450
Retire TY GR3 and BR3	-110	0	-204	-2,854	-7,595	-13,437	-14,120	-13,404	-12,757	-12,171	-11,595	-11,019	-10,443	-9,867	-9,290	-8,714	-8,325	-8,122	-7,920	-7,717	-7,514	-7,311	-7,109	-6,906
Retire TY GR3 and CR4	-304	-1,064	-7,332	-23,561	-44,421	-41,939	-39,653	-37,537	-35,567	-33,620	-31,674	-29,727	-27,780	-25,834	-23,887	-22,392	-21,347	-20,303	-19,258	-18,214	-17,169	0	0	0
Retire TY GR3 CR4 and CR6	-412	-2,034	-10,451	-32,146	-57,750	-54,544	-51,603	-48,892	-46,378	-43,896	-41,413	-38,931	-36,449	-33,967	-31,485	-29,613	-28,351	-27,089	-25,826	-24,564	-23,302	-22,040	-20,777	0
Retire TY GR3 CR4 CR6 and BR1-2	-232	-489	-6,506	-15,605	-26,575	-27,743	-26,326	-25,044	-23,880	-22,735	-21,590	-20,444	-19,299	-18,154	-17,009	-16,225	-15,803	-15,382	-14,960	-14,538	-14,116	-13,695	-13,273	-12,851
Retire TY GR3 and CR	-320	-1,047	-7,854	-25,193	-47,744	-45,066	-42,594	-40,300	-38,160	-36,045	-33,930	-31,815	-29,700	-27,585	-25,470	-23,829	-22,663	-21,496	-20,329	-19,163	0	0	0	0
Retire TY GR3 CR and GH3	-184	-115	-565	-5,149	-10,740	-20,123	-23,581	-22,544	-21,518	-20,575	-19,670	-18,766	-17,862	-16,958	-16,054	-15,173	-14,316	-13,720	-13,391	-13,067	-12,743	-12,420	-12,096	-11,772
Retire TY GR3 CR and GH1	-172	-186	-4,894	-11,163	-19,700	-21,275	-20,167	-19,156	-18,230	-17,317	-16,404	-15,492	-14,579	-13,667	-12,754	-12,103	-11,712	-11,321	-10,930	-10,539	-10,148	-9,757	-9,366	-8,975
Retire TY GR and CR	-68	0	-1,885	-5,910	-8,752	-8,273	-7,837	-7,438	-7,071	-6,709	-6,348	-5,986	-5,625	-5,264	-4,902	-4,640	-4,477	-4,315	-4,152	-3,989	-3,826	-3,664	-3,501	-3,338
Retire TY GR CR and BR1-2	-232	-489	-6,506	-15,605	-26,575	-27,743	-26,326	-25,044	-23,880	-22,735	-21,590	-20,444	-19,299	-18,154	-17,009	-16,225	-15,803	-15,382	-14,960	-14,538	-14,116	-13,695	-13,273	-12,851
Retire TY GR CR BR1-2 and MC1-2	-666	0	-7,206	-24,910	-44,366	-83,699	-90,165	-85,393	-81,022	-76,995	-73,024	-69,053	-65,082	-61,111	-57,140	-53,169	-50,263	-48,420	-46,578	-44,735	-42,892	-41,050	-39,207	-37,365
Retire TY and GR	-68	0	-1,885	-5,910	-8,752	-8,273	-7,837	-7,438	-7,071	-6,709	-6,348	-5,986	-5,625	-5,264	-4,902	-4,640	-4,477	-4,315	-4,152	-3,989	-3,826	-3,664	-3,501	-3,338
Retire TY GR and CR4	-304	-1,064	-7,332	-23,561	-44,421	-41,939	-39,653	-37,537	-35,567	-33,620	-31,674	-29,727	-27,780	-25,834	-23,887	-22,392	-21,347	-20,303	-19,258	-18,214	-17,169	0	0	0
Retire TY GR and CR5	-320	-1,047	-7,854	-25,193	-47,744	-45,066	-42,594	-40,300	-38,160	-36,045	-33,930	-31,815	-29,700	-27,585	-25,470	-23,829	-22,663	-21,496	-20,329	-19,163	0	0	0	0
Retire TY GR and CR6	-412	-2,034	-10,451	-32,146	-57,750	-54,544	-51,603	-48,892	-46,378	-43,896	-41,413	-38,931	-36,449	-33,967	-31,485	-29,613	-28,351	-27,089	-25,826	-24,564	-23,302	-22,040	-20,777	0
Retire TY GR CR and MC4	-417	-862	-12,710	-26,673	-38,008	-51,266	-49,432	-47,059	-44,864	-42,756	-40,652	-38,548	-36,445	-34,341	-32,245	-30,157	-28,614	-27,646	-26,708	-25,770	-24,832	-23,894	-22,956	-22,018
Retire TY GR CR and TC1	-117	0	0	-2,200	-5,745	-11,967	-15,834	-15,223	-14,502	-13,838	-13,200	-12,564	-11,927	-11,291	-10,654	-10,018	-9,381	-8,918	-8,637	-8,363	-8,089	-7,815	-7,541	-7,267
Retire TY GR CR and GH4	-174	-122	-527	-3,817	-9,616	-16,919	-23,191	-22,024	-20,963	-19,992	-19,096	-18,236	-17,376	-16,516	-15,655	-14,795	-13,959	-13,146	-12,581	-12,262	-11,944	-11,625	-11,307	-10,988
Retire TY GR CR and MC3	-230	0	-1,379	-9,390	-17,441	-25,539	-29,519	-28,309	-26,968	-25,706	-24,477	-23,249	-22,021	-20,793	-19,566	-18,361	-17,281	-16,506	-15,945	-15,394	-14,844	-14,293	-13,742	-13,192
Retire TY GR CR and GH2	-160	-11	-3,511	-8,264	-15,951	-19,189	-18,419	-17,591	-16,835	-16,113	-15,393	-14,673	-13,952	-13,232	-12,512	-11,803	-11,326	-11,079	-10,841	-10,603	-10,365	-10,128	-9,890	-9,652
Retire TY GR CR and MC1-2	-666	0	-7,206	-24,910	-44,366	-83,699	-90,165	-85,393	-81,022	-76,995	-73,024	-69,053	-65,082	-61,111	-57,140	-53,169	-50,263	-48,420	-46,578	-44,735	-42,892	-41,050	-39,207	-37,365
MTP Capital																								
No Retirements	883	4,778	11,562	18,173	24,637	30,976	37,210	43,345	49,380	55,311	61,136	66,853	72,459	77,965	83,446	88,957	94,500	100,076	105,685	111,329	116,849	122,412	128,018	133,669
Retire BR1-2	852	4,778	11,562	18,173	24,637	30,976	35,829	41,739	47,551	53,265	58,876	64,383	69,783	75,086	80,361	85,664	90,999	96,364	101,761	107,190	112,494	117,838	123,223	128,652
Retire TY	866	4,778	11,562	18,173	24,637	30,976	36,456	42,467	48,381	54,193	59,902	65,506	71,000	76,398	81,768	87,170	92,602	98,068	103,567	109,099	114,508	119,959	125,453	130,991
Retire TY and BR1-2	836	4,778	11,562	18,173	24,637	30,976	35,075	40,861	46,552	52,147	57,642	63,036	68,325	73,519	78,683	83,877	89,101	94,356	99,642	104,960	110,152	115,385	120,658	125,974
Retire TY and GR3	860	4,778	11,562	18,173	24,637	30,976	36,146	42,107	47,971	53,735	59,396	64,953	70,402	75,754	81,080	86,435	91,823	97,242	102,695	108,182	113,544	118,948	124,395	129,886
Retire TY GR3 and BR3	813	4,778	11,562	18,173	24,637	30,976	34,004	39,614	45,133	50,558	55,888	61,119	66,249	71,285	76,291	81,325	86,388	91,480	96,603	101,756	106,783	111,848	116,953	122,099
Retire TY GR3 and CR4	846	4,778	11,562	18,173	24,637	30,976	35,468	41,317	47,072	52,729	58,287	63,743	69,094	74,350	79,579	84,839	90,132	95,457	100,815	106,208	111,521	116,875	122,270	127,708
Retire TY GR3 CR4 and CR6	824	4,778	11,562	18,173	24,637	30,976	34,418	40,094	45,680	51,172	56,569	61,869	67,068	72,175	77,255	82,368	87,513	92,692	97,904	103,152	108,389	113,664	118,979	124,335
Retire TY GR3 CR4 CR6 and BR1-2	794	4,778	11,562	18,173	24,637	30,976	33,038	38,488	43,851	49,126	54,309	59,399	64,393	69,295	74,170	79,076	84,012	88,979	93,980	99,013	104,033	109,090	114,185	119,318
Retire TY GR3 and CR	809	4,778	11,562	18,173	24,637	30,976	33,683	39,238	44,705	50,082	55,367	60,557	65,650	70,652	75,629	80,638	85,680	90,756	95,867	101,013	106,196	111,417	116,676	121,974
Retire TY GR3 CR and GH3	724	4,778	11,562	18,173	24,637	30,976	29,800	34,714	39,550	44,305	48,978	53,566	58,067	62,487	66,885	71,310	75,763	80,245	84,756	89,297	93,869	98,473	103,109	107,778
Retire TY GR3 CR and GH1	725	4,778	11,562	18,173	24,637	30,976	29,840	34,761	39,604	44,366	49,044	53,639	58,146	62,572	66,976	71,407	75,867	80,354	84,872	89,419	93,998	98,608	103,250	107,926
Retire TY GR and CR	800	4,778	11,562	18,173	24,637	30,976	33,251	38,735	44,133	49,442	54,660	59,785	64,814	69,754	74,667	79,612	84,591	89,603	94,649	99,731	104,849	110,005	115,198	120,431
Retire TY GR CR and BR1-2	770	4,778	11,562	18,173	24,637	30,976	31,871	37,129	42,304	47,395	52,400	57,315	62,139	66,874	71,582	76,320	81,089	85,891	90,725	95,592	100,494	105,431	110,404	115,414
Retire TY GR CR BR1-2 and MC1-2	663	4,778	11,562	18,173	24,637	30,976	26,893	31,328	35,695	39,992	44,218	48,370	52,447	56,451	60,436	64,448	68,490	72,562	76,665	80,799	84,965	89,165	93,398	97,666
Retire TY and GR	850	4,778	11,562	18,173	24,637	30,976	35,715	41,605	47,399	53,094	58,689	64,181	69,566	74,856	80,118	85,410	90,734	96,089	101,478	106,900	112,197	117,536	122,918	128,343
Retire TY GR and CR4	837	4,778	11,562	18,173	24,637	30,976	35,036	40,815	46,500	52,089	57,580	62,970	68,258	73,451	78,617	83,814	89,042	94,303	99,598	104,926	110,174	115,463	120,793	126,165
Retire TY GR and CR5	835	4,778	11,562	18,173	24,637	30,976	34,979	40,748	46,424	52,004	57,487	62,869	68,148	73,333	78,491	83,680	88,901	94,154	99,440	104,761	110,005	115,289	120,614	125,982
Retire TY GR and CR6	829	4,778	11,562	18,173	24,637	30,976	34,664	40,381	46,006	51,537	56,972	62,307	67,541	72,681	77,794	82,939	88,115	93,324	98,567	103,844	109,065	114,326	119,627	124,970
Retire TY GR CR and MC4	715	4,778	11,562	18,173	24,637	30,976	29,320	34,154	38,913	43,595	48,199	52,721	57,160	61,522	65,864	70,237	74,641	79,077	83,546	88,049	92,586	97,159	101,768	106,415
Retire TY GR CR and TC1	781	4,778	11,562	18,173	24,637	30,976	32,396	37,740	42,998	48,170	53,253	58,245	63,144	67,955	72,740	77,556	82,403	87,283	92,196	97,143	102,125	107,142	112,196	117,287
Retire TY GR CR and GH4	715	4,778	11,562	18,173	24,637	30,976	29,376	34,221	38,988	43,677	48,284	52,808	57,247	61,606	65,941	70,304	74,695	79,114	83,562	88,039	92,548	97,086	101,660	106,265
Retire TY GR CR and MC3	731	4,778	11,562	18,173	24,637	30,976	30,029	34,980	39,854	44,649	49,363	53,994	58,540	63,006	67,451	71,927	76,435	80,975	85,548	90,155	94,797	99,475	104,190	108,942
Retire TY GR CR and GH2	714	4,778	11,562	18,173	24,637	30,976	29,335	34,174	38,935	43,617	48,218	52,735	57,168	61,521	65,850	70,207	74,591	79,004	83,446	87,917	92,420	96,953	101,519	106,117
Retire TY GR CR and MC1-2	693	4,778	11,562	18,173	24,637	30,976	28,274	32,935	37,524	42,039	46,478	50,840	55,122	59,331	63,521	67,741	71,992	76,274	80,590	84,938	89,321	93,739	98,192	102,683
MTP Capital Delta																								
No Retirements																								
Retire BR1-2	-30	0	0	0	0	0	-1,380	-1,606	-1,828	-2,046	-2,260	-2,470	-2,675	-2,879	-3,085	-3,292	-3,501	-3,712	-3,925	-4,139	-4,356	-4,574	-4,794	-5,017
Retire TY	-16	0	0	0	0	0	-754	-878	-999	-1,118	-1,234	-1,347	-1,458	-1,568	-1,677	-1,787	-1,898	-2,008	-2,119	-2,230	-2,341	-2,453	-2,565	-2,678
Retire TY and BR1-2	-30	0	0	0	0	0	-1,380	-1,606	-1,828	-2,046	-2,260	-2,470	-2,675	-2,879	-3,085	-3,292	-3,501	-3,712	-3,925	-4,139	-4,356	-4,574	-4,794	-5,017

10/18/2011

Ordering Sensitivities

Discount Rate: 6.71%

	$M NPVRR	$000 2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Retire TY and GR3	-7	0	0	0	0	0	-309	-360	-410	-458	-506	-553	-598	-643	-689	-734	-780	-825	-871	-918	-964	-1,011	-1,057	-1,104
Retire TY GR3 and BR3	-47	0	0	0	0	0	-2,143	-2,493	-2,838	-3,176	-3,508	-3,834	-4,153	-4,469	-4,789	-5,111	-5,435	-5,762	-6,092	-6,425	-6,761	-7,100	-7,442	-7,787
Retire TY GR3 and CR4	-14	0	0	0	0	0	-678	-790	-899	-1,006	-1,109	-1,210	-1,308	-1,405	-1,501	-1,596	-1,691	-1,786	-1,880	-1,974	-2,023	-2,073	-2,125	-2,178
Retire TY GR3 CR4 and CR6	-21	0	0	0	0	0	-1,050	-1,223	-1,392	-1,557	-1,718	-1,874	-2,026	-2,175	-2,324	-2,471	-2,619	-2,765	-2,911	-3,056	-3,132	-3,210	-3,291	-3,373
Retire TY GR3 CR4 CR6 and BR1-2	-30	0	0	0	0	0	-1,380	-1,606	-1,828	-2,046	-2,260	-2,470	-2,675	-2,879	-3,085	-3,292	-3,501	-3,712	-3,925	-4,139	-4,356	-4,574	-4,794	-5,017
Retire TY GR3 and CR	-15	0	0	0	0	0	-735	-856	-975	-1,090	-1,202	-1,312	-1,418	-1,522	-1,626	-1,730	-1,833	-1,936	-2,038	-2,139	-2,193	-2,247	-2,304	-2,361
Retire TY GR3 CR and GH3	*-85*	*0*	*0*	*0*	*0*	*0*	*-3,883*	*-4,524*	*-5,155*	*-5,777*	*-6,389*	*-6,991*	*-7,583*	*-8,165*	*-8,744*	*-9,328*	*-9,917*	-10,511	-11,111	-11,716	-12,327	-12,944	-13,567	-14,196
Retire TY GR3 CR and GH1	-84	0	0	0	0	0	-3,843	-4,477	-5,101	-5,717	-6,322	-6,918	-7,504	-8,080	-8,653	-9,231	-9,814	-10,402	-10,995	-11,594	-12,199	-12,809	-13,425	-14,048
Retire TY GR and CR	-9	0	0	0	0	0	-432	-503	-572	-640	-707	-772	-836	-899	-962	-1,026	-1,089	-1,153	-1,217	-1,282	-1,347	-1,412	-1,477	-1,543
Retire TY GR CR and BR1-2	-30	0	0	0	0	0	-1,380	-1,606	-1,828	-2,046	-2,260	-2,470	-2,675	-2,879	-3,085	-3,292	-3,501	-3,712	-3,925	-4,139	-4,356	-4,574	-4,794	-5,017
Retire TY GR CR BR1-2 and MC1-2	-107	0	0	0	0	0	-4,977	-5,800	-6,609	-7,403	-8,182	-8,945	-9,692	-10,423	-11,146	-11,872	-12,599	-13,328	-14,060	-14,793	-15,529	-16,266	-17,006	-17,748
Retire TY and GR	-9	0	0	0	0	0	-432	-503	-572	-640	-707	-772	-836	-899	-962	-1,026	-1,089	-1,153	-1,217	-1,282	-1,347	-1,412	-1,477	-1,543
Retire TY GR and CR4	-14	0	0	0	0	0	-678	-790	-899	-1,006	-1,109	-1,210	-1,308	-1,405	-1,501	-1,596	-1,691	-1,786	-1,880	-1,974	-2,023	-2,073	-2,125	-2,178
Retire TY GR and CR5	-15	0	0	0	0	0	-735	-856	-975	-1,090	-1,202	-1,312	-1,418	-1,522	-1,626	-1,730	-1,833	-1,936	-2,038	-2,139	-2,193	-2,247	-2,304	-2,361
Retire TY GR and CR6	-21	0	0	0	0	0	-1,050	-1,223	-1,392	-1,557	-1,718	-1,874	-2,026	-2,175	-2,324	-2,471	-2,619	-2,765	-2,911	-3,056	-3,132	-3,210	-3,291	-3,373
Retire TY GR CR and MC4	-85	0	0	0	0	0	-3,931	-4,581	-5,219	-5,846	-6,461	-7,064	-7,654	-8,231	-8,803	-9,376	-9,950	-10,526	-11,103	-11,683	-12,263	-12,846	-13,430	-14,016
Retire TY GR CR and TC1	-19	0	0	0	0	0	-855	-996	-1,135	-1,272	-1,407	-1,539	-1,670	-1,799	-1,927	-2,057	-2,188	-2,320	-2,453	-2,588	-2,725	-2,863	-3,002	-3,144
Retire TY GR CR and GH4	-85	0	0	0	0	0	-3,875	-4,514	-5,144	-5,765	-6,376	-6,977	-7,567	-8,148	-8,726	-9,308	-9,896	-10,489	-11,088	-11,692	-12,302	-12,917	-13,538	-14,166
Retire TY GR CR and MC3	-69	0	0	0	0	0	-3,222	-3,755	-4,278	-4,792	-5,296	-5,790	-6,274	-6,747	-7,216	-7,685	-8,156	-8,628	-9,102	-9,576	-10,052	-10,530	-11,009	-11,489
Retire TY GR CR and GH2	-86	0	0	0	0	0	-3,916	-4,562	-5,198	-5,825	-6,442	-7,049	-7,646	-8,233	-8,817	-9,405	-9,999	-10,599	-11,204	-11,814	-12,430	-13,052	-13,680	-14,314
Retire TY GR CR and MC1-2	-107	0	0	0	0	0	-4,977	-5,800	-6,609	-7,403	-8.182	-8,945	-9,692	-10,423	-11,146	-11,872	-12,599	-13,328	-14,060	-14,793	-15,529	-16,266	-17,006	-17,748
Landfill Capital																								
No Retirements	651	936	3,049	4,083	3,979	4,416	39,767	41,494	43,787	48,239	54,623	57,334	57,530	61,040	65,618	72,663	80,567	85,321	86,158	95,531	104,979	105,473	112,416	114,016
Retire BR1-2	633	936	3,049	4,083	3,979	4,416	38,597	40,289	42,222	46,605	52,539	55,246	55,435	58,295	62,821	69,061	77,018	81,822	82,706	92,122	101,617	102,497	111,329	112,995
Retire TY	651	936	3,049	4,083	3,979	4,416	39,767	41,494	43,787	48,239	54,623	57,334	57,530	61,040	65,618	72,663	80,567	85,321	86,158	95,531	104,979	105,473	112,416	114,016
Retire TY and BR1-2	633	936	3,049	4,083	3,979	4,416	38,597	40,289	42,222	46,605	52,539	55,246	55,435	58,295	62,821	69,061	77,018	81,822	82,706	92,122	101,617	102,497	111,329	112,995
Retire TY and GR3	651	936	3,049	4,083	3,979	4,416	39,767	41,494	43,787	48,239	54,623	57,334	57,530	61,040	65,618	72,663	80,567	85,321	86,158	95,531	104,979	105,473	112,416	114,016
Retire TY GR3 and BR3	623	936	3,049	4,083	3,979	4,416	37,951	39,624	41,357	45,703	51.388	54,092	54,278	56,779	61,276	67,072	75,058	79,889	80,799	90,239	99,761	100,853	110,728	112,431
Retire TY GR3 and CR4	630	678	2,210	2,959	2,884	3,200	37,807	39,545	42,143	46,312	52,051	54,774	55,433	58,982	63,545	71,132	78,799	83,511	84,290	93,598	102,979	103,613	110,606	112,238
Retire TY GR3 CR4 and CR6	583	279	910	1,219	1,187	1,318	32,585	34,392	37,577	41,413	46,252	49,092	50,567	54,270	58,909	67,432	74,830	79,551	80,290	89,551	98,878	99,779	106,902	108,636
Retire TY GR3 CR4 CR6 and BR1-2	565	279	910	1,219	1,187	1,318	31,416	33,188	36,012	39,779	44,168	47,004	48,472	51,524	56,111	65,830	71.281	76,052	76,837	86,142	95,516	96,803	105,815	107,615
Retire TY GR3 and CR	560	0	0	0	0	0	30,461	32,280	35.795	39,324	43.464	46,318	48,295	52,038	56,662	65,772	72,914	77,589	78,264	87,457	96,710	97,763	104,940	106,709
Retire TY GR3 CR and GH3	457	0	0	0	0	0	24,782	26,229	29,160	31,876	35,294	37,464	38,979	42,229	45,758	53,132	58,483	61,987	62,495	71,013	79,672	80,248	86,896	87,966
Retire TY GR3 CR and GH1	458	0	0	0	0	0	24,841	26,292	29,229	31,953	35,379	37,557	39,076	42,331	45,872	53,264	58,633	62,150	62,660	71,184	79,849	80,431	87,084	88,161
Retire TY GR and CR	560	0	0	0	0	0	30,461	32,280	35,795	39,324	43,464	46,318	48,295	52,038	56,662	65,772	72,914	77,589	78,264	87,457	96,710	97,763	104,940	106,709
Retire TY GR CR and BR1-2	541	0	0	0	0	0	29,292	31,075	34,230	37,690	41,380	44,230	46,200	49,293	53,864	62,170	69,365	74,090	74,812	84,048	93,348	94,787	103,853	105,688
Retire TY GR CR BR1-2 and MC1-2	541	0	0	0	0	0	29,292	31,075	34,230	37,690	41,380	44,230	46,200	49,293	53,864	62,170	69,365	74,090	74,812	84,048	93,348	94,787	103,853	105,688
Retire TY and GR	651	936	3,049	4,083	3,979	4,416	39,767	41,494	43,787	48,239	54,623	57,334	57,530	61,040	65,618	72,663	80,567	85,321	86,158	95,531	104,979	105,473	112,416	114,016
Retire TY GR and CR4	630	678	2,210	2,959	2,884	3,200	37.807	39,545	42.143	46,312	52,051	54,774	55,433	58,982	63,545	71,132	78,799	83,511	84,290	93,598	102,979	103,613	110,606	112,238
Retire TY GR and CR5	628	657	2,139	2,865	2,792	3,098	37,643	39,381	42,005	46,150	51,835	54,560	55,258	58,809	63,371	71,003	78,651	83,359	84,133	93,436	102,811	103,457	110,454	112,089
Retire TY GR and CR6	605	537	1,750	2,343	2,283	2,533	34,545	36,341	39,221	43,340	48,824	51,652	52,663	56,328	60,982	68,963	76,598	81,360	82,158	91,483	100,878	101,640	108,712	110,414
Retire TY GR CR and MC4	560	0	0	0	0	0	30,461	32,280	35,795	39,324	43,464	46.318	48,295	52,038	56,662	65,772	72,914	77,589	78,264	87,457	96,710	97,763	104,940	106,709
Retire TY GR CR and TC1	518	0	0	0	0	0	28,496	30,215	33,625	37,108	41,204	44,013	45,943	49,639	54,215	63,277	70,369	74,993	75,616	82,094	88,471	89,469	92,586	94,706
Retire TY GR CR and GH4	457	0	0	0	0	0	24,794	26,242	29,174	31,891	35,311	37,483	38,998	42,249	45,781	53,159	58,513	62,020	62,528	71,047	79,707	80,285	86,934	88,005
Retire TY GR CR and MC3	560	0	0	0	0	0	30,461	32,280	35,795	39,324	43,464	46,318	48,295	52,038	56,662	65,772	72,914	77,589	78,264	87,457	96,710	97,763	104,940	106,709
Retire TY GR CR and GH2	456	0	0	0	0	0	24,734	26,179	29,104	31,814	35,226	37.391	38,901	42,147	45,667	53,027	58,363	61,857	62,364	70,876	79,530	80,102	86,746	87,810
Retire TY GR CR and MC1-2	560	0	0	0	0	0	30,461	32,280	35,795	39,324	43,464	46,318	48,295	52,038	56,662	65,772	72,914	77,589	78,264	87,457	96,710	97,763	104,940	106,709
Landfill Capital Delta																								
No Retirements																								
Retire BR1-2	-18	0	0	0	0	0	-1,170	-1,205	-1,565	-1,634	-2,084	-2,089	-2,095	-2,745	-2,797	-3,602	-3,549	-3,499	-3,452	-3,409	-3,362	-2,976	-1,088	-1,021
Retire TY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and BR1-2	-18	0	0	0	0	0	-1,170	-1,205	-1,565	-1,634	-2,084	-2,089	-2,095	-2,745	-2,797	-3,602	-3,549	-3,499	-3,452	-3,409	-3,362	-2,976	-1,088	-1,021
Retire TY and GR3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and BR3	-29	0	0	0	0	0	-1,816	-1,870	-2,430	-2,536	-3,235	-3,242	-3,252	-4,261	-4,342	-5,591	-5,508	-5,431	-5,359	-5,291	-5,219	-4,620	-1,688	-1,585
Retire TY GR3 and CR4	-22	-258	-840	-1,124	-1,095	-1,216	-1,960	-1,949	-1,644	-1,927	-2,572	-2,560	-2,096	-2,059	-2,073	-1,531	-1,768	-1,810	-1,869	-1,932	-2,000	-1,861	-1,810	-1,778
Retire TY GR3 CR4 and CR6	-46	-399	-1,300	-1,741	-1,696	-1,882	-5,221	-5,152	-4,566	-4,899	-5,799	-5.682	-4,867	-4,712	-4,637	-3,700	-3,969	-3.960	-4,000	-4,047	-4.101	-3,833	-3,704	-3,602
Retire TY GR3 CR4 CR6 and BR1-2	-18	0	0	0	0	0	-1,170	-1,205	-1,565	-1,634	-2,084	-2,089	-2,095	-2,745	-2,797	-3,602	-3,549	-3,499	-3,452	-3,409	-3,362	-2,976	-1,088	-1,021
Retire TY GR3 and CR	-24	-279	-910	-1,219	-1,187	-1,318	-2,124	-2,112	-1,782	-2,089	-2,788	-2,774	-2,272	-2,232	-2,247	-1,659	-1,916	-1,962	-2,025	-2,094	-2,168	-2,017	-1,962	-1,927
Retire TY GR3 CR and GH3	-103	0	0	0	0	0	-5.680	-6,051	-6,635	-7,448	-8,170	-8,854	-9,316	-9,809	-10,904	-12,640	-14,431	-15,602	-15,769	-16,444	-17,038	-17,514	-18,044	-18,743
Retire TY GR3 CR and GH1	*-102*	*0*	*0*	*0*	*0*	*0*	*-5,620*	*-5,988*	*-6,566*	*-7,371*	*-8,085*	*-8,761*	*-9,219*	*-9,707*	*-10,790*	*-12,508*	*-14,281*	*-15,439*	*-15,604*	*-16,273*	*-16,860*	*-17,332*	*-17,856*	*-18,548*
Retire TY GR and CR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and BR1-2	-18	0	0	0	0	0	-1,170	-1,205	-1,565	-1,634	-2,084	-2,089	-2,095	-2,745	-2,797	-3,602	-3,549	-3,499	-3,452	-3,409	-3.362	-2,976	-1,088	-1,021
Retire TY GR CR BR1-2 and MC1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and GR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR4	-22	-258	-840	-1,124	-1,095	-1,216	-1,960	-1,949	-1,644	-1,927	-2,572	-2,560	-2,096	-2,059	-2,073	-1,531	-1,768	-1,810	-1,869	-1,932	-2,000	-1,861	-1,810	-1,778
Retire TY GR and CR5	-24	-279	-910	-1,219	-1,187	-1,318	-2,124	-2,112	-1,782	-2,089	-2,788	-2,774	-2,272	-2,232	-2,247	-1.659	-1,916	-1,962	-2,025	-2,094	-2,168	-2,017	-1,962	-1.927
Retire TY GR and CR6	*-46*	*-399*	*-1,300*	*-1,741*	*-1,696*	*-1,882*	*-5,221*	*-5,152*	*-4,566*	*-4,899*	*-5,799*	*-5,682*	*-4.867*	*-4,712*	*-4,637*	*-3.700*	*-3,969*	*-3,960*	*-4,000*	*-4,047*	*-4,101*	*-3,833*	*-3,704*	*-3,602*
Retire TY GR CR and MC4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and TC1	-42	0	0	0	0	0	-1,965	-2,066	-2,172	-2,216	-2,260	-2,305	-2,351	-2,398	-2,446	-2,495	-2,545	-2,596	-2,648	-5,363	-8,239	-8.294	-12,354	-12,003
Retire TY GR CR and GH4	-103	0	0	0	0	0	-5,668	-6.038	-6,622	-7,433	-8,153	-8,835	-9,297	-9,789	-10,881	-12,614	-14,401	-15,569	-15,736	-16,410	-17,002	-17,478	-18,007	-18,704
Retire TY GR CR and MC3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH2	-104	0	0	0	0	0	-5,727	-6,101	-6,691	-7,510	-8,238	-8,927	-9,394	-9,891	-10,994	-12,745	-14,551	-15,732	-15,900	-16,581	-17,180	-17,660	-18,195	-18,899

Ordering Sensitivities

Discount Rate: 6.71%

	$M NPVRR	$000 2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Retire TY GR CR and MC1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Water Capital																								
No Retirements	235	0	0	0	22,976	32,582	30,878	29,324	27,901	26,592	25,321	24,050	22,779	21,508	20,237	18,966	17,849	17,096	16,551	16,007	15,462	14,918	14,373	11,813
Retire BR1-2	220	0	0	0	21,508	30,611	29,012	27,553	26,215	24,984	23,789	22,595	21,400	20,206	19,011	17,816	16,752	16,026	15,509	14,993	14,476	13,959	13,442	10,910
Retire TY	229	0	0	0	22,390	31,745	30,086	28,573	27,188	25,913	24,676	23,439	22,201	20,964	19,727	18,490	17,397	16,658	16,128	15,598	15,067	14,537	14,007	11,461
Retire TY and BR1-2	214	0	0	0	20,922	29,774	28,220	26,802	25,502	24,305	23,144	21,984	20,623	19,662	18,501	17,340	16,300	15,589	15,086	14,584	14,081	13,579	13,076	10,558
Retire TY and GR3	223	0	0	0	21,804	30,908	29,294	27,823	26,475	25,234	24,031	22,827	21,624	20,420	19,217	18,014	16,945	16,221	15,705	15,189	14,673	14,157	13,641	11,110
Retire TY GR3 and BR3	200	0	0	0	19,525	27,848	26,398	25,073	23,858	22,739	21,654	20,569	19,484	18,399	17,315	16,230	15,242	14,561	14,088	13,615	13,142	12,669	12,196	9,707
Retire TY GR3 and CR4	213	0	0	0	20,824	29,326	27,800	26,409	25,136	23,965	22,830	21,695	20,560	19,425	18,290	17,155	16,139	15,450	14,970	14,490	14,010	13,530	13,050	11,110
Retire TY GR3 CR4 and CR6	197	0	0	0	19,306	26,877	25,487	24,221	23,063	21,999	20,970	19,941	18,912	17,884	16,855	15,826	14,890	14,257	13,833	13,408	12,984	12,560	12,135	11,110
Retire TY GR3 CR4 CR6 and BR1-2	182	0	0	0	17,838	24,906	23,621	22,450	21,377	20,391	19,439	18,486	17,534	16,582	15,629	14,677	13,793	13,188	12,791	12,394	11,998	11,601	11,204	10,206
Retire TY GR3 and CR	186	0	0	0	18,244	25,162	23,867	22,689	21,612	20,623	19,669	18,714	17,759	16,805	15,850	14,895	14,016	13,422	13,037	12,651	12,266	11,880	11,495	11,110
Retire TY GR3 CR and GH3	171	0	0	0	16,767	23,187	21,992	20,903	19,909	18,995	18,113	17,230	16,348	15,465	14,583	13,700	12,893	12,349	11,991	11,632	11,274	10,915	10,557	10,199
Retire TY GR3 CR and GH1	171	0	0	0	16,782	23,208	22,011	20,922	19,926	19,012	18,129	17,246	16,362	15,479	14,596	13,713	12,905	12,360	12,001	11,643	11,284	10,926	10,567	10,208
Retire TY GR and CR	177	0	0	0	17,425	23,993	22,761	21,640	20,616	19,675	18,768	17,860	16,953	16,045	15,138	14,230	13,385	12,811	12,445	12,080	11,715	11,349	10,984	10,618
Retire TY GR CR and BR1-2	163	0	0	0	15,957	22,021	20,895	19,869	18,930	18,067	17,236	16,405	15,574	14,743	13,912	13,081	12,288	11,741	11,404	11,066	10,728	10,391	10,053	9,715
Retire TY GR CR BR1-2 and MC1-2	137	0	0	0	13,535	18,486	17,542	16,683	15,898	15,178	14,485	13,792	13,099	12,406	11,713	11,019	10,364	9,918	9,645	9,371	9,097	8,823	8,549	8,275
Retire TY and GR	215	0	0	0	20,985	29,739	28,188	26,774	25,478	24,286	23,130	21,974	20,817	19,661	18,505	17,349	16,314	15,609	15,113	14,617	14,122	13,626	13,130	10,618
Retire TY GR and CR4	204	0	0	0	20,005	28,157	26,694	25,361	24,140	23,017	21,929	20,841	19,753	18,666	17,578	16,490	15,507	14,839	14,379	13,919	13,459	12,999	12,539	10,618
Retire TY GR and CR5	203	0	0	0	19,922	28,024	26,569	25,242	24,027	22,910	21,828	20,746	19,664	18,582	17,500	16,418	15,440	14,774	14,317	13,860	13,403	12,946	12,489	10,618
Retire TY GR and CR6	199	0	0	0	19,467	27,289	25,875	24,586	23,405	22,320	21,270	20,220	19,170	18,120	17,069	16,019	15,065	14,416	13,976	13,536	13,095	12,655	12,215	10,618
Retire TY GR CR and MC4	157	0	0	0	15,512	21,201	20,113	19,124	18,221	17,394	16,595	15,796	14,998	14,199	13,401	12,602	11,866	11,371	11,056	10,741	10,426	10,111	9,796	9,481
Retire TY GR CR and TC1	170	0	0	0	16,655	22,985	21,804	20,728	19,745	18,842	17,971	17,100	16,228	15,357	14,486	13,615	12,806	12,256	11,903	11,550	11,198	10,845	10,492	10,140
Retire TY GR CR and GH4	163	0	0	0	15,951	22,022	20,889	19,858	18,916	18,050	17,215	16,380	15,544	14,709	13,873	13,038	12,264	11,740	11,401	11,063	10,725	10,386	10,048	9,709
Retire TY GR CR and MC3	161	0	0	0	15,857	21,704	20,590	19,578	18,653	17,805	16,987	16,169	15,350	14,532	13,714	12,896	12,140	11,631	11,307	10,983	10,659	10,334	10,010	9,686
Retire TY GR CR and GH2	162	0	0	0	15,936	22,002	20,670	19,840	18,898	18,034	17,199	16,364	15,529	14,695	13,860	13,025	12,253	11,729	11,391	11,052	10,714	10,376	10,038	9,700
Retire TY GR CR and MC1-2	152	0	0	0	15,003	20,457	19,408	18,454	17,584	16,786	16,017	15,247	14,477	13,708	12,938	12,168	11,461	10,988	10,686	10,385	10,083	9,782	9,480	9,179
Water Capital Delta																								
No Retirements																								
Retire BR1-2	-15	0	0	0	-1,468	-1,971	-1,866	-1,771	-1,686	-1,608	-1,531	-1,455	-1,378	-1,302	-1,226	-1,149	-1,097	-1,069	-1,042	-1,014	-986	-959	-931	-903
Retire TY	-6	0	0	0	-586	-837	-792	-751	-713	-679	-645	-611	-577	-544	-510	-476	-452	-438	-423	-409	-395	-380	-366	-352
Retire TY and BR1-2	-15	0	0	0	-1,468	-1,971	-1,866	-1,771	-1,686	-1,608	-1,531	-1,455	-1,378	-1,302	-1,226	-1,149	-1,097	-1,069	-1,042	-1,014	-986	-959	-931	-903
Retire TY and GR3	-6	0	0	0	-586	-837	-792	-751	-713	-679	-645	-611	-577	-544	-510	-476	-452	-438	-423	-409	-395	-380	-366	-352
Retire TY GR3 and BR3	-23	0	0	0	-2,279	-3,060	-2,897	-2,749	-2,616	-2,496	-2,377	-2,258	-2,140	-2,021	-1,902	-1,784	-1,703	-1,660	-1,617	-1,574	-1,531	-1,488	-1,445	-1,402
Retire TY GR3 and CR4	-10	0	0	0	-980	-1,582	-1,494	-1,413	-1,339	-1,269	-1,201	-1,132	-1,064	-996	-927	-859	-806	-770	-735	-699	-663	-627	-591	0
Retire TY GR3 CR4 and CR6	-16	0	0	0	-1,518	-2,449	-2,313	-2,188	-2,073	-1,966	-1,860	-1,754	-1,647	-1,541	-1,435	-1,329	-1,249	-1,193	-1,137	-1,082	-1,026	-970	-915	0
Retire TY GR3 CR4 CR6 and BR1-2	-15	0	0	0	-1,468	-1,971	-1,866	-1,771	-1,686	-1,608	-1,531	-1,455	-1,378	-1,302	-1,226	-1,149	-1,097	-1,069	-1,042	-1,014	-986	-959	-931	-903
Retire TY GR3 and CR	-11	0	0	0	-1,062	-1,715	-1,619	-1,532	-1,451	-1,376	-1,302	-1,227	-1,153	-1,079	-1,005	-931	-874	-835	-796	-757	-718	-679	-640	0
Retire TY GR3 CR and GH3	-15	0	0	0	-1,477	-1,975	-1,876	-1,786	-1,703	-1,628	-1,556	-1,484	-1,411	-1,339	-1,267	-1,195	-1,123	-1,073	-1,046	-1,019	-992	-965	-938	-911
Retire TY GR3 CR and GH1	-15	0	0	0	-1,462	-1,954	-1,856	-1,767	-1,686	-1,611	-1,540	-1,468	-1,397	-1,325	-1,254	-1,183	-1,111	-1,062	-1,035	-1,008	-982	-955	-928	-901
Retire TY GR and CR	-8	0	0	0	-819	-1,169	-1,106	-1,049	-996	-948	-901	-854	-807	-759	-712	-665	-631	-611	-591	-571	-551	-531	-511	-491
Retire TY GR CR and BR1-2	-15	0	0	0	-1,468	-1,971	-1,866	-1,771	-1,686	-1,608	-1,531	-1,455	-1,378	-1,302	-1,226	-1,149	-1,097	-1,069	-1,042	-1,014	-986	-959	-931	-903
Retire TY GR CR BR1-2 and MC1-2	-25	0	0	0	-2,422	-3,536	-3,354	-3,186	-3,032	-2,889	-2,751	-2,613	-2,475	-2,337	-2,200	-2,062	-1,924	-1,823	-1,759	-1,695	-1,631	-1,567	-1,504	-1,440
Retire TY and GR	-8	0	0	0	-819	-1,169	-1,106	-1,049	-996	-948	-901	-854	-807	-759	-712	-665	-631	-611	-591	-571	-551	-531	-511	-491
Retire TY GR and CR4	-10	0	0	0	-980	-1,582	-1,494	-1,413	-1,339	-1,269	-1,201	-1,132	-1,064	-996	-927	-859	-806	-770	-735	-699	-663	-627	-591	0
Retire TY GR and CR5	-11	0	0	0	-1,062	-1,715	-1,619	-1,532	-1,451	-1,376	-1,302	-1,227	-1,153	-1,079	-1,005	-931	-874	-835	-796	-757	-718	-679	-640	0
Retire TY GR and CR6	-16	0	0	0	-1,518	-2,449	-2,313	-2,188	-2,073	-1,966	-1,860	-1,754	-1,647	-1,541	-1,435	-1,329	-1,249	-1,193	-1,137	-1,082	-1,026	-970	-915	0
Retire TY GR CR and MC4	-20	0	0	0	-1,913	-2,792	-2,648	-2,516	-2,394	-2,281	-2,172	-2,064	-1,955	-1,846	-1,737	-1,628	-1,519	-1,440	-1,389	-1,339	-1,288	-1,238	-1,187	-1,137
Retire TY GR CR and TC1	-8	0	0	0	-770	-1,008	-958	-912	-871	-833	-797	-760	-724	-688	-652	-616	-579	-555	-542	-529	-517	-504	-491	-479
Retire TY GR CR and GH4	-15	0	0	0	-1,474	-1,971	-1,872	-1,782	-1,700	-1,625	-1,553	-1,481	-1,409	-1,337	-1,265	-1,193	-1,121	-1,071	-1,044	-1,017	-990	-963	-936	-909
Retire TY GR CR and MC3	-16	0	0	0	-1,568	-2,289	-2,171	-2,063	-1,963	-1,870	-1,781	-1,692	-1,602	-1,513	-1,424	-1,335	-1,245	-1,180	-1,139	-1,097	-1,056	-1,015	-973	-932
Retire TY GR CR and GH2	-15	0	0	0	-1,489	-1,991	-1,891	-1,800	-1,718	-1,642	-1,569	-1,496	-1,423	-1,350	-1,278	-1,205	-1,132	-1,082	-1,055	-1,028	-1,000	-973	-946	-918
Retire TY GR CR and MC1-2	-25	0	0	0	-2,422	-3,536	-3,354	-3,186	-3,032	-2,889	-2,751	-2,613	-2,475	-2,337	-2,200	-2,062	-1,924	-1,823	-1,759	-1,695	-1,631	-1,567	-1,504	-1,440
Total Capital																								
No Retirements	7,281	11,645	80,960	223,239	417,024	556,928	647,904	670,624	650,837	634,544	620,691	609,718	634,348	665,478	684,757	681,756	671,072	666,204	691,091	727,814	735,732	714,783	713,478	723,168
Retire BR1-2	7,271	11,155	74,454	212,824	425,198	565,114	653,383	632,895	614,262	603,740	621,603	638,628	644,194	640,108	668,343	703,949	732,293	732,351	715,859	708,622	691,618	717,941	774,645	786,587
Retire TY	7,316	11,645	79,637	224,282	446,948	588,592	677,458	656,023	636,868	621,158	607,850	597,389	622,388	653,762	673,285	670,457	659,867	657,065	695,920	747,601	766,431	748,991	740,957	712,762
Retire TY and BR1-2	7,276	11,155	73,131	208,677	418,905	558,878	646,716	626,397	613,782	640,131	671,436	687,735	676,304	655,140	635,992	627,863	667,899	711,587	738,306	743,869	716,757	685,664	689,544	714,935
Retire TY and GR3	7,359	11,645	78,314	218,731	429,426	560,600	639,143	623,519	635,146	652,212	663,075	652,429	636,970	663,905	695,361	718,559	719,421	706,743	691,747	692,958	693,349	729,814	787,594	798,462
Retire TY GR3 and BR3	7,481	11,645	78,110	217,280	430,781	565,859	650,261	635,256	656,313	684,056	701,918	692,385	668,349	653,540	680,913	715,476	743,144	742,077	724,349	715,874	697,632	722,902	779,383	790,092
Retire TY GR3 and CR4	7,111	10,323	70,142	195,449	394,159	537,620	627,450	608,354	591,656	582,175	601,100	619,402	626,700	624,566	654,105	692,096	720,951	721,708	705,903	699,354	682,350	694,574	756,478	788,849
Retire TY GR3 CR4 and CR6	6,843	7,890	58,391	161,563	333,195	478,744	567,262	556,628	583,097	614,296	635,288	629,868	611,097	601,469	632,967	673,185	702,315	703,376	687,721	681,314	665,241	708,807	763,854	796,842
Retire TY GR3 CR4 CR6 and BR1-2	6,794	7,401	51,885	145,958	305,152	454,483	580,160	605,822	622,624	618,136	603,318	593,823	621,259	653,625	674,738	672,672	660,149	648,472	641,878	689,555	723,197	753,734	760,850	745,626
Retire TY GR3 and CR	6,643	6,564	49,627	135,151	283,202	430,646	525,779	550,829	581,543	602,060	599,652	584,447	575,227	606,911	642,980	671,200	672,561	661,007	652,540	686,190	723,007	741,746	744,197	735,988
Retire TY GR3 CR and GH3	6,732	6,449	49,062	133,790	301,294	467,268	564,576	560,743	586,015	615,283	634,227	627,716	608,669	598,285	628,373	666,639	692,400	690,616	672,807	663,723	663,087	704,089	757,241	788,739
Retire TY GR3 CR and GH1	6,721	6,377	44,734	129,178	303,578	487,893	597,530	589,588	573,346	564,419	593,104	624,027	642,176	636,120	617,718	611,013	647,223	688,485	713,811	717,461	706,652	690,479	689,110	718,898
Retire TY GR and CR	6,634	6,564	47,742	129,241	273,631	426,657	554,455	581,658	600,576	597,261	583,605	575,540	604,896	639,366	661,930	662,462	650,616	639,827	634,108	682,659	735,214	765,387	770,541	755,758
Retire TY GR CR and BR1-2	6,663	6,074	41,236	117,423	275,895	450,209	559,479	555,484	571,033	590,375	602,115	595,460	585,770	616,288	651,739	678,204	678,269	665,374	657,593	704,124	754,837	784,490	791,450	775,459
Retire TY GR CR BR1-2 and MC1-2	6,338	6,074	34,030	93,917	240,337	384,731	495,994	532,711	563,331	584,002	581,617	567,169	558,852	590,813	627,763	655,646	655,961	642,214	633,542	679,179	728,997	758,058	764,730	748,450
Retire TY and GR	7,348	11,645	76,429	212,821	419,854	551,158	629,769	616,079	638,902	667,928	687,593	679,096	656,060	643,249	671,694	708,401	736,993	737,070	720,494	713,178	688,195	665,843	685,874	722,129
Retire TY GR and CR4	7,140	10,323	68,257	189,539	384,588	528,178	618,076	599,365	588,889	616,480	649,047	666,821	657,319	638,303	627,466	662,598	705,486	734,834	732,179	724,085	698,417	692,803	743,648	772,404

Ordering Sensitivities

Discount Rate: 6.71%

	$M NPVRR	$000 2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Retire TY GR and CR5	7,157	10,318	67,665	187,812	381,091	524,816	614,788	601,982	625,947	655,537	675,455	667,997	646,525	628,174	617,951	653,681	696,915	726,482	724,045	716,168	708,717	686,049	737,002	765,912
Retire TY GR and CR6	7,040	9,212	64,677	180,337	370,120	514,038	601,673	587,779	601,511	619,806	631,413	622,604	609,721	638,574	671,870	697,060	697,960	685,560	678,311	725,388	758,567	772,129	778,030	761,689
Retire TY GR CR and MC4	6,574	5,702	35,032	107,759	275,247	447,621	563,631	557,830	549,684	578,228	611,093	631,179	625,323	608,847	593,603	590,802	630,535	673,947	700,252	705,387	695,986	681,109	683,335	730,355
Retire TY GR CR and TC1	6,824	6,564	47,742	132,232	308,653	488,705	600,030	592,790	577,609	569,978	599,836	631,886	650,936	645,801	628,913	624,521	663,249	706,240	732,135	734,189	721,547	706,250	701,807	733,105
Retire TY GR CR and GH4	6,751	6,442	47,215	130,615	304,078	482,790	585,035	577,627	567,733	594,298	625,202	643,326	635,727	617,476	599,861	594,053	631,242	673,284	699,005	702,798	692,132	684,199	733,608	781,871
Retire TY GR CR and MC3	6,693	6,564	46,363	125,042	296,160	473,852	584,730	577,859	563,080	555,767	585,945	618,324	637,711	632,924	616,387	612,325	651,259	694,315	720,230	724,965	715,164	699,888	699,472	730,385
Retire TY GR CR and GH2	6,762	6,552	44,231	126,167	297,728	480,499	589,688	581,931	571,721	598,022	628,738	646,709	638,960	620,559	602,787	596,804	633,610	675,068	700,453	704,153	693,394	685,369	734,685	782,854
Retire TY GR CR and MC1-2	6,437	6,564	40,536	109,522	268,381	414,445	521,146	523,335	551,476	583,660	605,497	601,920	585,627	576,237	597,144	625,900	644,719	642,262	634,315	680,619	731,047	760,472	766,124	750,649
Total Capital Delta																								
No Retirements																								
Retire BR1-2	-9	-489	-6,506	-10,414	8,174	8,186	5,480	-37,729	-36,575	-30,804	912	28,910	9,846	-25,371	-16,414	22,193	61,221	66,148	24,768	-19,192	-44,113	3,158	61,168	63,419
Retire TY	36	0	-1,323	1,043	29,924	31,664	29,554	-14,601	-13,969	-13,386	-12,841	-12,330	-11,960	-11,716	-11,473	-11,299	-11,205	-9,138	4,829	19,786	30,699	34,208	27,479	-10,406
Retire TY and BR1-2	-41	-489	-6,506	-15,605	-28,043	-29,714	-30,742	-29,627	-23,087	18,973	63,586	90,346	53,916	1,378	-37,293	-42,594	8,032	54,522	42,386	-3,732	-49,674	-63,327	-51,413	2,173
Retire TY and GR3	42	0	-1,323	-5,551	-17,523	-27,992	-38,315	-32,504	-1,722	31,054	55,224	55,040	14,583	10,142	22,076	48,102	59,555	49,677	-4,173	-54,643	-73,082	-19,177	46,638	85,700
Retire TY GR3 and BR3	122	0	-204	-1,451	1,355	5,259	11,118	11,737	21,167	31,844	38,843	39,957	31,378	-10,365	-14,448	-3,083	23,722	35,334	32,602	22,916	4,283	-6,912	-8,211	-8,369
Retire TY GR3 and CR4	-248	-1,322	-8,171	-23,282	-35,267	-22,980	-11,693	-15,166	-43,490	-70,037	-61,974	-33,026	-10,270	-39,339	-41,255	-26,463	1,530	14,966	14,156	6,396	-10,998	-35,241	-31,116	-9,613
Retire TY GR3 CR4 and CR6	-268	-2,432	-11,751	-33,887	-60,964	-58,876	-60,189	-51,726	-8,559	32,122	34,187	10,466	-15,603	-23,097	-21,138	-18,912	-18,636	-18,332	-18,182	-18,039	-17,109	14,233	7,376	7,993
Retire TY GR3 CR4 CR6 and BR1-2	-49	-489	-6,506	-15,605	-28,043	-24,261	12,899	49,194	39,528	3,840	-31,970	-36,045	10,162	52,156	41,771	-512	-42,166	-54,904	-45,843	8,241	57,956	44,927	-3,004	-51,216
Retire TY GR3 and CR	-200	-1,326	-8,764	-26,412	-49,993	-48,098	-41,483	-5,799	-1,554	-12,236	-35,636	-45,421	-35,870	5,442	10,013	-1,984	-29,754	-42,369	-35,181	4,876	57,766	32,939	-19,657	-60,854
Retire TY GR3 CR and GH3	89	-115	-565	-1,362	18,092	36,622	38,797	9,915	4,472	13,222	34,576	43,269	33,442	-8,626	-14,607	-4,561	19,839	29,609	20,267	-22,467	-59,921	-37,657	13,044	52,751
Retire TY GR3 CR and GH1	78	-186	-4,894	-5,973	20,376	57,247	71,751	38,759	-8,197	-37,642	-6,548	39,580	66,949	29,209	-25,263	-60,187	-25,338	27,478	61,271	31,272	-16,355	-51,267	-55,087	-17,089
Retire TY GR and CR	-9	0	-1,885	-5,910	-9,571	-3,989	28,676	30,830	19,033	-4,800	-16,046	-8,907	29,669	32,455	18,950	-8,739	-21,945	-21,179	-18,432	-3,531	12,207	23,641	26,344	19,770
Retire TY GR CR and BR1-2	29	-489	-6,506	-11,818	2,265	23,552	5,024	-26,175	-29,543	-6,886	18,510	19,920	-19,126	-23,078	-10,191	15,743	27,652	25,547	23,485	21,465	19,623	19,103	20,909	19,702
Retire TY GR CR BR1-2 and MC1-2	-325	0	-7,206	-23,507	-35,558	-65,478	-63,485	-22,773	-7,702	-6,373	-20,498	-28,290	-26,918	-25,475	-23,977	-22,558	-22,308	-23,160	-24,051	-24,945	-25,840	-26,432	-26,720	-27,010
Retire TY and GR	-10	0	-1,885	-5,910	-9,571	-9,442	-9,375	-7,440	3,756	15,717	24,519	26,668	19,090	-20,655	-23,666	-10,158	17,571	30,327	28,747	20,220	-5,154	-63,972	-101,720	-76,332
Retire TY GR and CR4	-208	-1,322	-8,171	-23,282	-35,267	-22,980	-11,693	-16,714	-50,013	-51,448	-38,546	-12,276	1,259	-4,946	-44,229	-45,802	-31,507	-2,236	11,685	10,908	10,222	26,961	57,773	50,275
Retire TY GR and CR5	-191	-1,326	-8,764	-25,008	-38,764	-26,342	-14,980	-14,097	-12,955	-12,391	-12,138	-11,099	-9,535	-15,075	-53,743	-54,719	-40,078	-10,588	3,551	2,990	20,522	20,207	51,127	43,782
Retire TY GR and CR6	-308	-2,432	-11,751	-32,483	-49,734	-37,120	-28,096	-28,300	-37,391	-48,123	-56,180	-56,492	-46,339	-4,675	175	-11,341	-39,033	-51,510	-42,183	12,210	70,372	106,287	92,156	39,560
Retire TY GR CR and MC4	-60	-862	-12,710	-21,482	1,617	20,964	9,176	-23,829	-50,892	-19,032	27,488	55,639	20,426	-30,519	-68,327	-71,660	-20,081	34,120	66,144	22,728	-39,228	-84,279	-87,206	-25,403
Retire TY GR CR and TC1	190	0	0	2,991	35,022	62,048	45,576	11,131	-22,967	-27,283	16,230	56,346	46,039	6,436	-33,017	-37,941	12,633	66,413	98,027	51,530	-13,667	-59,137	-68,733	-22,653
Retire TY GR CR and GH4	117	-122	-527	1,374	30,448	56,133	30,581	-4,031	-32,843	-2,963	41,597	67,787	30,831	-21,889	-62,069	-68,408	-19,374	33,456	64,897	20,139	-43,082	-81,188	-36,933	26,113
Retire TY GR CR and MC3	60	0	-1,379	-4,199	22,529	47,195	30,275	-3,799	-37,496	-41,493	2,340	42,784	32,815	-6,442	-45,543	-50,136	643	54,487	86,122	42,306	-20,050	-65,499	-71,069	-25,373
Retire TY GR CR and GH2	128	-11	-3,511	-3,074	24,097	53,842	35,233	273	-28,856	761	45,132	71,170	34,064	-18,807	-59,143	-65,657	-17,006	35,241	66,346	21,494	-41,820	-80,018	-35,855	27,096
Retire TY GR CR and MC1-2	-197	0	-7,206	-19,719	-5,250	-12,212	-33,309	-58,323	-49,100	-13,600	21,891	26,380	-19,269	-63,128	-64,786	-36,561	-5,897	2,435	207	-2,040	-4,167	-4,916	-4,416	-5,109
Retirement O&M Cost																								
No Retirements	0																							
Retire BR1-2	3	0	0	0	0	0	4,200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and BR1-2	5	0	0	0	0	0	6,300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and GR3	3	0	0	0	0	0	4,200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and BR3	5	0	0	0	0	0	6,300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR4	5	0	0	0	0	0	6,300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 and CR6	6	0	0	0	0	0	8,400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 CR6 and BR1-2	9	0	0	0	0	0	12,600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR	8	0	0	0	0	0	10,500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH3	9	0	0	0	0	0	12,600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH1	9	0	0	0	0	0	12,600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR	9	0	0	0	0	0	12,600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and BR1-2	12	0	0	0	0	0	16,800	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR BR1-2 and MC1-2	15	0	0	0	0	0	21,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and GR	5	0	0	0	0	0	6,300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR4	6	0	0	0	0	0	8,400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR5	6	0	0	0	0	0	8,400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR6	6	0	0	0	0	0	8,400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC4	11	0	0	0	0	0	14,700	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and TC1	11	0	0	0	0	0	14,700	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH4	11	0	0	0	0	0	14,700	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC3	11	0	0	0	0	0	14,700	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH2	11	0	0	0	0	0	14,700	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC1-2	12	0	0	0	0	0	16,800	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retirement O&M Cost Delta																								
No Retirements																								
Retire BR1-2	3	0	0	0	0	0	4,200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and BR1-2	3	0	0	0	0	0	4,200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and GR3	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and BR3	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR4	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 and CR6	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 CR6 and BR1-2	3	0	0	0	0	0	4,200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Ordering Sensitivities

Discount Rate: 6.71%

	$M NPVRR	$000 2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Retire TY GR3 CR and GH3	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH1	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and BR1-2	3	0	0	0	0	0	4,200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR BR1-2 and MC1-2	3	0	0	0	0	0	4,200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and GR	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR4	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR5	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR6	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC4	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and TC1	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH4	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC3	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH2	2	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC1-2	3	0	0	0	0	0	4,200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Existing Unit Fixed O&M																								
No Retirements	3,421	214,901	219,007	210,243	214,448	218,737	223,112	227,574	232,125	236,768	241,503	246,333	251,260	256,285	261,411	266,639	271,972	277,411	282,959	288,619	294,391	300,279	306,284	312,410
Retire BR1-2	3,289	214,901	219,007	210,243	214,448	218,737	211,202	215,427	219,735	224,130	228,612	233,185	237,848	242,605	247,457	252,407	257,455	262,604	267,856	273,213	278,677	284,251	289,936	295,734
Retire TY	3,416	214,901	219,007	210,243	214,448	218,737	222,668	227,121	231,663	236,297	241,023	245,843	250,760	255,775	260,891	266,108	271,431	276,859	282,396	288,044	293,805	299,681	305,675	311,788
Retire TY and BR1-2	3,285	214,901	219,007	210,243	214,448	218,737	210,759	214,974	219,273	223,659	228,132	232,695	237,348	242,095	246,937	251,876	256,914	262,052	267,293	272,639	278,092	283,653	289,326	295,113
Retire TY and GR3	3,365	214,901	219,007	210,243	214,448	218,737	218,041	222,402	226,850	231,387	236,015	240,735	245,550	250,461	255,470	260,579	265,791	271,107	276,529	282,059	287,701	293,455	299,324	305,310
Retire TY GR3 and BR3	3,190	214,901	219,007	210,243	214,448	218,737	202,225	206,270	210,395	214,603	218,895	223,273	227,738	232,293	236,939	241,678	246,511	251,442	256,470	261,600	266,832	272,169	277,612	283,164
Retire TY GR3 and CR4	3,224	214,901	219,007	210,243	214,448	218,737	205,276	209,382	213,569	217,841	222,197	226,641	231,174	235,798	240,514	245,324	250,230	255,235	260,340	265,547	270,857	276,275	281,800	287,436
Retire TY GR3 CR4 and CR6	3,104	214,901	219,007	210,243	214,448	218,737	194,481	198,370	202,338	206,385	210,512	214,722	219,017	223,397	227,865	232,423	237,071	241,812	246,649	251,582	256,613	261,745	266,980	272,320
Retire TY GR3 CR4 CR6 and BR1-2	2,972	214,901	219,007	210,243	214,448	218,737	182,572	186,223	189,948	193,747	197,621	201,574	205,605	209,717	213,912	218,190	222,554	227,005	231,545	236,176	240,899	245,717	250,632	255,644
Retire TY GR3 and CR	2,954	214,901	219,007	210,243	214,448	218,737	180,907	184,525	188,216	191,980	195,819	199,736	203,731	207,805	211,961	216,200	220,524	224,935	229,434	234,022	238,703	243,477	248,346	253,313
Retire TY GR3 CR and GH3	2,807	214,901	219,007	210,243	214,448	218,737	167,668	171,022	174,442	177,931	181,490	185,119	188,822	192,598	196,450	200,379	204,387	208,475	212,644	216,897	221,235	225,660	230,173	234,776
Retire TY GR3 CR and GH1	2,743	214,901	219,007	210,243	214,448	218,737	161,842	165,078	168,380	171,748	175,183	178,686	182,260	185,905	189,623	193,416	197,284	201,230	205,254	209,359	213,547	217,818	222,174	226,617
Retire TY GR and CR	2,852	214,901	219,007	210,243	214,448	218,737	171,746	175,181	178,684	182,258	185,903	189,621	193,414	197,282	201,227	205,252	209,357	213,544	217,815	222,171	226,615	231,147	235,770	240,485
Retire TY GR CR and BR1-2	2,720	214,901	219,007	210,243	214,448	218,737	159,837	163,033	166,294	169,620	173,012	176,473	180,002	183,602	187,274	191,020	194,840	198,737	202,711	206,766	210,901	215,119	219,421	223,810
Retire TY GR CR BR1-2 and MC1-2	2,393	214,901	219,007	210,243	214,448	218,737	130,261	132,866	135,523	138,234	140,998	143,818	146,695	149,629	152,621	155,674	158,787	161,963	165,202	168,506	171,876	175,314	178,820	182,397
Retire TY and GR	3,264	214,901	219,007	210,243	214,448	218,737	208,880	213,057	217,319	221,665	226,098	230,620	235,233	239,937	244,736	249,631	254,623	259,716	264,910	270,208	275,613	281,125	286,747	292,482
Retire TY GR and CR4	3,122	214,901	219,007	210,243	214,448	218,737	196,115	200,037	204,038	208,119	212,281	216,527	220,857	225,274	229,780	234,375	239,063	243,844	248,721	253,696	258,769	263,945	269,224	274,608
Retire TY GR and CR5	3,113	214,901	219,007	210,243	214,448	218,737	195,306	199,212	203,196	207,260	211,406	215,634	219,946	224,345	228,832	233,409	238,077	242,838	247,695	252,649	257,702	262,856	268,113	273,476
Retire TY GR and CR6	3,144	214,901	219,007	210,243	214,448	218,737	198,085	202,046	206,087	210,209	214,413	218,701	223,075	227,537	232,088	236,729	241,464	246,293	251,219	256,243	261,368	266,596	271,928	277,366
Retire TY GR CR and MC4	2,650	214,901	219,007	210,243	214,448	218,737	153,445	156,514	159,644	162,837	166,094	169,416	172,804	176,260	179,786	183,381	187,049	190,790	194,606	198,498	202,468	206,517	210,647	214,860
Retire TY GR CR and TC1	2,648	214,901	219,007	210,243	214,448	218,737	153,278	156,343	159,470	162,660	165,913	169,231	172,616	176,068	179,589	183,181	186,845	190,582	194,393	198,281	202,247	206,292	210,418	214,626
Retire TY GR CR and GH4	2,710	214,901	219,007	210,243	214,448	218,737	158,900	162,078	165,319	168,625	171,998	175,438	178,947	182,526	186,176	189,900	193,698	197,572	201,523	205,554	209,665	213,858	218,135	222,498
Retire TY GR CR and MC3	2,650	214,901	219,007	210,243	214,448	218,737	153,470	156,540	159,671	162,864	166,121	169,444	172,833	176,289	179,815	183,411	187,079	190,821	194,637	198,530	202,501	206,551	210,682	214,896
Retire TY GR CR and GH2	2,695	214,901	219,007	210,243	214,448	218,737	157,494	160,644	163,857	167,134	170,477	173,886	177,364	180,911	184,530	188,220	191,985	195,824	199,741	203,736	207,810	211,966	216,206	220,530
Retire TY GR CR and MC1-2	2,525	214,901	219,007	210,243	214,448	218,737	142,170	145,013	147,914	150,872	153,889	156,967	160,106	163,308	166,575	169,906	173,304	176,770	180,306	183,912	187,590	191,342	195,169	199,072
Existing Unit Fixed O&M Delta																								
No Retirements																								
Retire BR1-2	-132	0	0	0	0	0	-11,909	-12,147	-12,390	-12,638	-12,891	-13,149	-13,412	-13,680	-13,953	-14,232	-14,517	-14,807	-15,104	-15,406	-15,714	-16,028	-16,349	-16,676
Retire TY	-5	0	0	0	0	0	-444	-453	-462	-471	-480	-490	-500	-510	-520	-530	-541	-552	-563	-574	-586	-597	-609	-622
Retire TY and BR1-2	-132	0	0	0	0	0	-11,909	-12,147	-12,390	-12,638	-12,891	-13,149	-13,412	-13,680	-13,953	-14,232	-14,517	-14,807	-15,104	-15,406	-15,714	-16,028	-16,349	-16,676
Retire TY and GR3	-51	0	0	0	0	0	-4,627	-4,719	-4,813	-4,910	-5,008	-5,108	-5,210	-5,314	-5,421	-5,529	-5,640	-5,753	-5,868	-5,985	-6,105	-6,227	-6,351	-6,478
Retire TY GR3 and BR3	-175	0	0	0	0	0	-15,816	-16,132	-16,455	-16,784	-17,120	-17,462	-17,811	-18,167	-18,531	-18,901	-19,279	-19,665	-20,058	-20,460	-20,869	-21,286	-21,712	-22,146
Retire TY GR3 and CR4	-141	0	0	0	0	0	-12,765	-13,020	-13,281	-13,546	-13,817	-14,094	-14,375	-14,663	-14,956	-15,255	-15,560	-15,872	-16,189	-16,513	-16,843	-17,180	-17,524	-17,874
Retire TY GR3 CR4 and CR6	-120	0	0	0	0	0	-10,795	-11,011	-11,231	-11,456	-11,685	-11,919	-12,157	-12,400	-12,648	-12,901	-13,159	-13,423	-13,691	-13,965	-14,244	-14,529	-14,820	-15,116
Retire TY GR3 CR4 CR6 and BR1-2	-132	0	0	0	0	0	-11,909	-12,147	-12,390	-12,638	-12,891	-13,149	-13,412	-13,680	-13,953	-14,232	-14,517	-14,807	-15,104	-15,406	-15,714	-16,028	-16,349	-16,676
Retire TY GR3 and CR	-150	0	0	0	0	0	-13,574	-13,845	-14,122	-14,405	-14,693	-14,987	-15,286	-15,592	-15,904	-16,222	-16,546	-16,877	-17,215	-17,559	-17,910	-18,269	-18,634	-19,007
Retire TY GR3 CR and GH3	-147	0	0	0	0	0	-13,238	-13,503	-13,773	-14,049	-14,330	-14,616	-14,909	-15,207	-15,511	-15,821	-16,138	-16,460	-16,790	-17,125	-17,468	-17,817	-18,174	-18,537
Retire TY GR3 CR and GH1	-211	0	0	0	0	0	-19,065	-19,447	-19,835	-20,232	-20,637	-21,050	-21,471	-21,900	-22,338	-22,785	-23,240	-23,705	-24,179	-24,663	-25,156	-25,659	-26,172	-26,696
Retire TY GR and CR	-101	0	0	0	0	0	-9,161	-9,344	-9,531	-9,722	-9,916	-10,115	-10,317	-10,523	-10,734	-10,949	-11,167	-11,391	-11,619	-11,851	-12,088	-12,330	-12,576	-12,828
Retire TY GR CR and BR1-2	-132	0	0	0	0	0	-11,909	-12,147	-12,390	-12,638	-12,891	-13,149	-13,412	-13,680	-13,953	-14,232	-14,517	-14,807	-15,104	-15,406	-15,714	-16,028	-16,349	-16,676
Retire TY GR CR BR1-2 and MC1-2	-328	0	0	0	0	0	-29,576	-30,167	-30,771	-31,386	-32,014	-32,654	-33,307	-33,973	-34,653	-35,346	-36,053	-36,774	-37,509	-38,259	-39,025	-39,805	-40,601	-41,413
Retire TY and GR	-101	0	0	0	0	0	-9,161	-9,344	-9,531	-9,722	-9,916	-10,115	-10,317	-10,523	-10,734	-10,949	-11,167	-11,391	-11,619	-11,851	-12,088	-12,330	-12,576	-12,828
Retire TY GR and CR4	-141	0	0	0	0	0	-12,765	-13,020	-13,281	-13,546	-13,817	-14,094	-14,375	-14,663	-14,956	-15,255	-15,560	-15,872	-16,189	-16,513	-16,843	-17,180	-17,524	-17,874
Retire TY GR and CR5	-150	0	0	0	0	0	-13,574	-13,845	-14,122	-14,405	-14,693	-14,987	-15,286	-15,592	-15,904	-16,222	-16,546	-16,877	-17,215	-17,559	-17,910	-18,269	-18,634	-19,007
Retire TY GR and CR6	-120	0	0	0	0	0	-10,795	-11,011	-11,231	-11,456	-11,685	-11,919	-12,157	-12,400	-12,648	-12,901	-13,159	-13,423	-13,691	-13,965	-14,244	-14,529	-14,820	-15,116
Retire TY GR CR and MC4	-203	0	0	0	0	0	-18,300	-18,666	-19,040	-19,421	-19,809	-20,205	-20,609	-21,021	-21,442	-21,871	-22,308	-22,754	-23,209	-23,674	-24,147	-24,630	-25,123	-25,625
Retire TY GR CR and TC1	-205	0	0	0	0	0	-18,468	-18,837	-19,214	-19,598	-19,990	-20,390	-20,798	-21,214	-21,638	-22,071	-22,512	-22,962	-23,422	-23,890	-24,368	-24,855	-25,352	-25,859
Retire TY GR CR and GH4	-142	0	0	0	0	0	-12,846	-13,103	-13,365	-13,632	-13,905	-14,183	-14,467	-14,756	-15,051	-15,352	-15,659	-15,973	-16,292	-16,618	-16,950	-17,289	-17,635	-17,988
Retire TY GR CR and MC3	-202	0	0	0	0	0	-18,275	-18,641	-19,014	-19,394	-19,782	-20,177	-20,581	-20,993	-21,412	-21,841	-22,278	-22,723	-23,178	-23,641	-24,114	-24,596	-25,088	-25,590
Retire TY GR CR and GH2	-158	0	0	0	0	0	-14,251	-14,536	-14,827	-15,124	-15,426	-15,735	-16,049	-16,370	-16,698	-17,032	-17,372	-17,720	-18,074	-18,436	-18,804	-19,181	-19,564	-19,955
Retire TY GR CR and MC1-2	-328	0	0	0	0	0	-29,576	-30,167	-30,771	-31,386	-32,014	-32,654	-33,307	-33,973	-34,653	-35,346	-36,053	-36,774	-37,509	-38,259	-39,025	-39,805	-40,601	-41,413
New Controls Fixed O&M																								
No Retirements	426	0	8	123	4,486	12,567	37,131	37,913	38,710	39,524	40,353	41,199	42,023	42,864	43,721	44,595	45,487	46,397	47,325	48,271	49,237	50,222	51,226	52,251
Retire BR1-2	406	0	8	123	2,960	10,953	35,485	36,234	36,998	37,777	38,571	39,382	40,169	40,973	41,792	42,628	43,480	44,350	45,237	46,142	47,065	48,006	48,966	49,945
Retire TY	383	0	8	123	4,486	12,567	33,231	33,935	34,653	35,385	36,132	36,893	37,631	38,384	39,152	39,935	40,733	41,548	42,379	43,227	44,091	44,973	45,872	46,790

Ordering Sensitivities

Discount Rate: 6.71%

	$M NPVRR	$000 2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Retire TY and BR1-2	363	0	8	123	2,960	10,953	31,585	32,256	32,940	33,638	34,350	35,076	35,777	36,493	37,223	37,967	38,727	39,501	40,291	41,097	41,919	42,757	43,612	44,485
Retire TY and GR3	340	0	8	123	4,486	12,567	29,332	29,957	30,595	31,246	31,910	32,588	33,239	33,904	34,582	35,274	35,979	36,699	37,433	38,182	38,945	39,724	40,519	41,329
Retire TY GR3 and BR3	327	0	8	123	4,486	11,499	28,243	28,847	29,462	30,091	30,732	31,385	32,013	32,653	33,306	33,973	34,652	35,345	36,052	36,773	37,508	38,259	39,024	39,804
Retire TY GR3 and CR4	298	0	8	123	4,486	12,567	25,497	26,046	26,606	27,177	27,760	28,354	28,921	29,499	30,089	30,691	31,305	31,931	32,570	33,221	33,886	34,563	35,255	35,960
Retire TY GR3 CR4 and CR6	243	0	8	123	4,486	12,567	20,527	20,977	21,435	21,903	22,380	22,867	23,324	23,791	24,267	24,752	25,247	25,752	26,267	26,792	27,328	27,875	28,432	29,001
Retire TY GR3 CR4 CR6 and BR1-2	222	0	8	123	2,960	10,953	18,881	19,298	19,723	20,156	20,598	21,049	21,470	21,900	22,338	22,784	23,240	23,705	24,179	24,663	25,156	25,659	26,172	26,696
Retire TY GR3 and CR	198	0	8	123	4,486	12,567	16,481	16,850	17,226	17,609	18,000	18,399	18,767	19,143	19,526	19,916	20,314	20,721	21,135	21,558	21,989	22,429	22,877	23,335
Retire TY GR3 CR and GH3	182	0	8	123	4,486	11,914	15,150	15,492	15,841	16,197	16,560	16,930	17,269	17,614	17,966	18,326	18,692	19,066	19,447	19,836	20,233	20,638	21,050	21,471
Retire TY GR3 CR and GH1	181	0	8	123	3,188	11,248	15,136	15,477	15,826	16,181	16,544	16,914	17,252	17,597	17,949	18,308	18,675	19,048	19,429	19,818	20,214	20,618	21,031	21,451
Retire TY GR and CR	142	0	8	123	4,486	12,567	11,459	11,728	12,001	12,280	12,565	12,855	13,112	13,375	13,642	13,915	14,193	14,477	14,767	15,062	15,363	15,670	15,984	16,304
Retire TY GR CR and BR1-2	121	0	8	123	2,960	10,953	9,813	10,048	10,288	10,533	10,783	11,038	11,258	11,484	11,713	11,948	12,186	12,430	12,679	12,932	13,191	13,455	13,724	13,998
Retire TY GR CR BR1-2 and MC1-2	84	0	8	123	2,960	8,092	6,828	6,964	7,103	7,245	7,390	7,538	7,689	7,843	8,000	8,160	8,323	8,489	8,659	8,832	9,009	9,189	9,373	9,560
Retire TY and GR	284	0	8	123	4,486	12,567	24,310	24,835	25,371	25,917	26,475	27,043	27,584	28,136	28,699	29,273	29,858	30,455	31,064	31,686	32,319	32,966	33,625	34,298
Retire TY GR and CR4	242	0	8	123	4,486	12,567	20,475	20,924	21,381	21,848	22,324	22,810	23,266	23,731	24,206	24,690	25,184	25,687	26,201	26,725	27,260	27,805	28,361	28,928
Retire TY GR and CR5	240	0	8	123	4,486	12,567	20,264	20,708	21,161	21,623	22,095	22,576	23,027	23,488	23,956	24,437	24,926	25,424	25,933	26,451	26,980	27,520	28,070	28,632
Retire TY GR and CR6	229	0	8	123	4,486	12,567	19,340	19,766	20,200	20,644	21,095	21,556	21,988	22,427	22,876	23,333	23,800	24,276	24,762	25,257	25,762	26,277	26,803	27,339
Retire TY GR CR and MC4	123	0	8	123	3,739	11,012	9,874	10,110	10,352	10,598	10,849	11,105	11,327	11,553	11,784	12,020	12,261	12,506	12,756	13,011	13,271	13,537	13,807	14,084
Retire TY GR CR and TC1	131	0	8	123	4,486	12,073	10,452	10,700	10,953	11,211	11,475	11,743	11,978	12,218	12,462	12,711	12,965	13,225	13,489	13,759	14,034	14,315	14,601	14,893
Retire TY GR CR and GH4	127	0	8	123	4,486	11,935	10,170	10,413	10,660	10,912	11,170	11,432	11,661	11,894	12,132	12,374	12,622	12,874	13,132	13,395	13,662	13,936	14,214	14,499
Retire TY GR CR and MC3	126	0	8	99	4,449	11,882	10,102	10,343	10,589	10,839	11,095	11,356	11,583	11,815	12,051	12,292	12,538	12,789	13,045	13,306	13,572	13,843	14,120	14,402
Retire TY GR CR and GH2	121	0	0	24	3,608	10,878	9,737	9,970	10,209	10,452	10,700	10,953	11,172	11,396	11,624	11,856	12,093	12,335	12,582	12,833	13,090	13,352	13,619	13,891
Retire TY GR CR and MC1-2	105	0	8	123	4,486	9,706	8,474	8,643	8,816	8,992	9,172	9,356	9,543	9,734	9,928	10,127	10,329	10,536	10,747	10,962	11,181	11,405	11,633	11,865
New Controls Fixed O&M Delta																								
No Retirements																								
Retire BR1-2	-21	0	0	0	-1,526	-1,614	-1,646	-1,679	-1,713	-1,747	-1,782	-1,818	-1,854	-1,891	-1,929	-1,967	-2,007	-2,047	-2,088	-2,130	-2,172	-2,216	-2,260	-2,305
Retire TY	-43	0	0	0	0	0	-3,900	-3,978	-4,057	-4,139	-4,221	-4,306	-4,392	-4,480	-4,569	-4,661	-4,754	-4,849	-4,946	-5,045	-5,146	-5,249	-5,354	-5,461
Retire TY and BR1-2	-21	0	0	0	-1,526	-1,614	-1,646	-1,679	-1,713	-1,747	-1,782	-1,818	-1,854	-1,891	-1,929	-1,967	-2,007	-2,047	-2,088	-2,130	-2,172	-2,216	-2,260	-2,305
Retire TY and GR3	-43	0	0	0	0	0	-3,900	-3,978	-4,057	-4,139	-4,221	-4,306	-4,392	-4,480	-4,569	-4,661	-4,754	-4,849	-4,946	-5,045	-5,146	-5,249	-5,354	-5,461
Retire TY GR3 and BR3	-13	0	0	0	0	-1,068	-1,089	-1,111	-1,133	-1,156	-1,179	-1,202	-1,226	-1,251	-1,276	-1,301	-1,327	-1,354	-1,381	-1,409	-1,437	-1,466	-1,495	-1,525
Retire TY GR3 and CR4	-42	0	0	0	0	0	-3,835	-3,911	-3,990	-4,069	-4,151	-4,234	-4,318	-4,405	-4,493	-4,583	-4,674	-4,768	-4,863	-4,960	-5,060	-5,161	-5,264	-5,369
Retire TY GR3 CR4 and CR6	-55	0	0	0	0	0	-4,970	-5,069	-5,171	-5,274	-5,379	-5,487	-5,597	-5,709	-5,823	-5,939	-6,058	-6,179	-6,303	-6,429	-6,557	-6,689	-6,822	-6,959
Retire TY GR3 CR4 CR6 and BR1-2	-21	0	0	0	-1,526	-1,614	-1,646	-1,679	-1,713	-1,747	-1,782	-1,818	-1,854	-1,891	-1,929	-1,967	-2,007	-2,047	-2,088	-2,130	-2,172	-2,216	-2,260	-2,305
Retire TY GR3 and CR	-45	0	0	0	0	0	-4,046	-4,127	-4,210	-4,294	-4,380	-4,467	-4,557	-4,648	-4,741	-4,836	-4,932	-5,031	-5,132	-5,234	-5,339	-5,446	-5,555	-5,666
Retire TY GR3 CR and GH3	-15	0	0	0	0	-652	-1,331	-1,358	-1,385	-1,412	-1,441	-1,469	-1,499	-1,529	-1,559	-1,591	-1,622	-1,655	-1,688	-1,722	-1,756	-1,791	-1,827	-1,864
Retire TY GR3 CR and GH1	-17	0	0	0	-1,298	-1,319	-1,345	-1,372	-1,400	-1,428	-1,456	-1,485	-1,515	-1,545	-1,576	-1,608	-1,640	-1,673	-1,706	-1,740	-1,775	-1,811	-1,847	-1,884
Retire TY GR and CR	-56	0	0	0	0	0	-5,022	-5,122	-5,224	-5,329	-5,435	-5,544	-5,655	-5,768	-5,884	-6,001	-6,121	-6,244	-6,369	-6,496	-6,626	-6,758	-6,894	-7,031
Retire TY GR CR and BR1-2	-21	0	0	0	-1,526	-1,614	-1,646	-1,679	-1,713	-1,747	-1,782	-1,818	-1,854	-1,891	-1,929	-1,967	-2,007	-2,047	-2,088	-2,130	-2,172	-2,216	-2,260	-2,305
Retire TY GR CR BR1-2 and MC1-2	-37	0	0	0	0	-2,860	-2,986	-3,084	-3,185	-3,288	-3,393	-3,500	-3,570	-3,641	-3,714	-3,788	-3,864	-3,941	-4,020	-4,100	-4,182	-4,266	-4,351	-4,438
Retire TY and GR	-56	0	0	0	0	0	-5,022	-5,122	-5,224	-5,329	-5,435	-5,544	-5,655	-5,768	-5,884	-6,001	-6,121	-6,244	-6,369	-6,496	-6,626	-6,758	-6,894	-7,031
Retire TY GR and CR4	-42	0	0	0	0	0	-3,835	-3,911	-3,990	-4,069	-4,151	-4,234	-4,318	-4,405	-4,493	-4,583	-4,674	-4,768	-4,863	-4,960	-5,060	-5,161	-5,264	-5,369
Retire TY GR and CR5	-45	0	0	0	0	0	-4,046	-4,127	-4,210	-4,294	-4,380	-4,467	-4,557	-4,648	-4,741	-4,836	-4,932	-5,031	-5,132	-5,234	-5,339	-5,446	-5,555	-5,666
Retire TY GR and CR6	-55	0	0	0	0	0	-4,970	-5,069	-5,171	-5,274	-5,379	-5,487	-5,597	-5,709	-5,823	-5,939	-6,058	-6,179	-6,303	-6,429	-6,557	-6,689	-6,822	-6,959
Retire TY GR CR and MC4	-19	0	0	0	-746	-1,554	-1,585	-1,617	-1,650	-1,683	-1,716	-1,750	-1,785	-1,821	-1,858	-1,895	-1,933	-1,971	-2,011	-2,051	-2,092	-2,134	-2,176	-2,220
Retire TY GR CR and TC1	-12	0	0	0	0	-494	-1,007	-1,027	-1,048	-1,069	-1,090	-1,112	-1,134	-1,157	-1,180	-1,204	-1,228	-1,252	-1,277	-1,303	-1,329	-1,356	-1,383	-1,410
Retire TY GR CR and GH4	-15	0	0	0	0	-632	-1,289	-1,315	-1,341	-1,368	-1,395	-1,423	-1,452	-1,481	-1,510	-1,540	-1,571	-1,603	-1,635	-1,667	-1,701	-1,735	-1,770	-1,805
Retire TY GR CR and MC3	-16	0	0	-24	-37	-684	-1,358	-1,385	-1,413	-1,441	-1,470	-1,499	-1,529	-1,560	-1,591	-1,623	-1,655	-1,688	-1,722	-1,756	-1,791	-1,827	-1,864	-1,901
Retire TY GR CR and GH2	-21	0	-8	-99	-878	-1,689	-1,723	-1,757	-1,792	-1,828	-1,865	-1,902	-1,940	-1,979	-2,019	-2,059	-2,100	-2,142	-2,185	-2,229	-2,273	-2,319	-2,365	-2,412
Retire TY GR CR and MC1-2	-37	0	0	0	0	-2,860	-2,986	-3,084	-3,185	-3,288	-3,393	-3,500	-3,570	-3,641	-3,714	-3,788	-3,864	-3,941	-4,020	-4,100	-4,182	-4,266	-4,351	-4,438
Total Revenue Requirements																								
No Retirements	33,083	1,153,325	1,303,125	1,487,365	1,779,836	2,015,695	2,249,635	2,261,295	2,324,945	2,409,832	2,461,265	2,550,982	2,701,624	2,792,108	2,807,879	2,867,606	2,992,929	2,987,847	3,114,818	3,203,297	3,290,340	3,297,676	3,356,737	3,480,390
Retire BR1-2	33,294	1,152,836	1,296,619	1,476,950	1,783,086	2,016,172	2,218,998	2,228,694	2,297,838	2,402,050	2,492,385	2,631,345	2,717,091	2,740,476	2,822,605	2,968,726	3,137,325	3,069,316	3,146,789	3,187,882	3,282,085	3,372,344	3,496,815	3,573,417
Retire TY	33,081	1,153,325	1,301,802	1,488,407	1,806,813	2,044,996	2,237,108	2,243,839	2,308,701	2,395,746	2,449,042	2,543,348	2,697,429	2,793,758	2,800,792	2,856,973	2,987,008	2,982,627	3,126,986	3,232,640	3,320,644	3,322,437	3,371,484	3,451,256
Retire TY and BR1-2	33,257	1,152,836	1,295,296	1,472,802	1,773,982	2,007,611	2,212,883	2,221,384	2,297,842	2,442,690	2,549,303	2,633,439	2,719,643	2,744,919	2,772,053	2,864,972	3,081,069	3,116,227	3,184,047	3,216,012	3,291,024	3,317,103	3,382,291	3,531,239
Retire TY and GR3	33,013	1,153,325	1,300,479	1,482,856	1,786,971	2,014,441	2,196,747	2,209,498	2,309,572	2,443,147	2,493,143	2,565,403	2,669,203	2,746,177	2,832,226	2,903,682	3,017,072	3,005,704	3,085,744	3,133,701	3,253,475	3,327,262	3,447,690	3,528,144
Retire TY GR3 and BR3	33,616	1,153,325	1,300,275	1,481,405	1,788,327	2,014,380	2,220,258	2,242,535	2,356,461	2,514,053	2,555,186	2,629,304	2,728,150	2,768,176	2,851,682	3,005,853	3,117,123	3,106,085	3,183,867	3,223,805	3,322,270	3,410,412	3,536,969	3,598,863
Retire TY GR3 and CR4	32,926	1,152,003	1,292,308	1,459,575	1,751,340	1,991,067	2,180,113	2,187,403	2,258,094	2,363,698	2,455,273	2,600,245	2,680,938	2,705,242	2,786,886	2,933,273	3,106,926	3,032,856	3,114,122	3,151,389	3,249,120	3,319,956	3,423,237	3,578,812
Retire TY GR3 CR4 and CR6	32,936	1,149,571	1,280,557	1,425,688	1,691,927	1,934,427	2,135,564	2,155,362	2,279,643	2,445,473	2,485,775	2,558,592	2,666,164	2,707,709	2,791,188	2,956,018	3,112,256	3,061,307	3,141,689	3,185,904	3,278,394	3,374,325	3,508,598	3,605,774
Retire TY GR3 CR4 CR6 and BR1-2	33,166	1,149,081	1,274,051	1,410,083	1,658,810	1,903,088	2,182,735	2,249,009	2,322,306	2,402,940	2,456,033	2,551,665	2,719,546	2,817,515	2,848,218	2,939,652	3,070,168	3,062,027	3,159,031	3,266,583	3,429,527	3,439,106	3,500,717	3,604,957
Retire TY GR3 and CR	32,880	1,148,244	1,271,793	1,399,276	1,641,672	1,886,060	2,109,138	2,168,527	2,307,240	2,407,624	2,442,341	2,526,021	2,646,076	2,744,409	2,844,647	2,935,224	3,054,867	3,051,132	3,141,549	3,222,890	3,391,323	3,404,135	3,468,989	3,577,556
Retire TY GR3 CR and GH3	33,801	1,148,130	1,271,228	1,397,915	1,659,763	1,919,283	2,198,125	2,190,581	2,331,030	2,501,070	2,543,220	2,623,655	2,740,031	2,797,982	2,893,265	3,090,807	3,244,174	3,194,581	3,275,265	3,317,229	3,431,987	3,516,957	3,670,265	3,764,424
Retire TY GR3 CR and GH1	33,680	1,148,058	1,266,899	1,387,270	1,650,120	1,922,823	2,208,188	2,206,965	2,286,013	2,407,352	2,518,831	2,671,219	2,779,440	2,815,659	2,865,723	2,986,527	3,198,382	3,239,207	3,292,000	3,356,181	3,444,654	3,487,886	3,549,096	3,720,631
Retire TY GR and CR	32,786	1,148,244	1,269,908	1,393,366	1,626,535	1,875,793	2,140,398	2,204,423	2,282,826	2,361,770	2,417,685	2,513,276	2,675,127	2,782,586	2,809,450	2,909,143	3,032,941	3,028,538	3,127,833	3,225,237	3,418,572	3,422,194	3,485,560	3,584,414
Retire TY GR CR and BR1-2	33,083	1,147,755	1,263,402	1,381,549	1,623,975	1,892,293	2,142,687	2,143,552	2,259,164	2,411,061	2,456,174	2,542,578	2,669,045	2,773,635	2,888,022	2,981,158	3,103,608	3,095,867	3,191,075	3,287,465	3,469,064	3,489,950	3,556,311	3,658,460
Retire TY GR CR BR1-2 and MC1-2	34,268	1,147,755	1,256,195	1,358,042	1,588,418	1,809,856	2,296,702	2,233,956	2,396,098	2,485,268	2,516,846	2,627,069	2,771,944	2,900,501	3,050,816	3,141,236	3,270,153	3,254,013	3,360,670	3,467,033	3,654,451	3,663,128	3,725,022	3,838,409
Retire TY and GR	32,942	1,153,325	1,298,594	1,476,946	1,772,207	1,998,840	2,180,574	2,195,031	2,308,216	2,461,050	2,507,832	2,576,705	2,669,878	2,704,454	2,779,483	2,921,751	3,080,276	3,024,435	3,101,778	3,138,744	3,222,225	3,255,886	3,342,228	3,476,102
Retire TY GR and CR4	32,827	1,152,003	1,290,423	1,453,664	1,736,592	1,975,479	2,163,295	2,170,139	2,248,496	2,397,333	2,506,126	2,593,090	2,672,032	2,701,937	2,737,390	2,873,114	3,096,810	3,051,688	3,131,338	3,164,961	3,245,471	3,292,249	3,403,001	3,559,672
Retire TY GR and CR5	32,837	1,151,999	1,289,830	1,451,938	1,733,172	1,972,224	2,162,076	2,175,054	2,289,609	2,437,961	2,493,991	2,567,092	2,660,037	2,695,510	2,730,387	2,873,757	3,091,898	3,049,431	3,124,088	3,155,105	3,261,224	3,291,199	3,407,168	3,556,663
Retire TY GR and CR6	32,914	1,150,893	1,286,843	1,444,463	1,723,640	1,963,821	2,159,172	2,173,727	2,282,259	2,426,048	2,468,370	2,543,698	2,660,300	2,744,177	2,840,806	2,919,800	3,028,867	3,022,690	3,114,607	3,216,775	3,370,673	3,372,770	3,439,810	3,527,257
Retire TY GR CR and MC4	33,645	1,147,383	1,257,198	1,371,885	1,625,360	1,878,014	2,192,180	2,181,782	2,272,811	2,436,951	2,557,342	2,647,415	2,738,784	2,808,124	2,853,280	2,999,792	3,194,726	3,265,676	3,317,295	3,364,667	3,434,348	3,502,301	3,566,140	3,760,848
Retire TY GR CR and TC1	33,781	1,148,244	1,269,908	1,396,357	1,661,557	1,936,078	2,220,769	2,198,579	2,292,711	2,407,192	2,526,556	2,693,576	2,785,876	2,819,502	2,874,051	2,985,220	3,213,415	3,251,949	3,338,878	3,355,330	3,463,115	3,484,830	3,564,633	3,704,593
Retire TY GR CR and GH4	33,947	1,148,122	1,269,381	1,394,740	1,656,983	1,930,900	2,229,192	2,208,604	2,300,837	2,464,139	2,582,863	2,669,384	2,761,618	2,825,321	2,873,225	3,012,941	3,228,311	3,282,974	3,340,850	3,350,207	3,471,962	3,509,465	3,640,933	3,819,709
Retire TY GR CR and MC3	33,542	1,148,244	1,268,529	1,386,868	1,645,476	1,915,414	2,193,042	2,182,060	2,268,615	2,374,204	2,501,650	2,666,720	2,763,085	2,796,872	2,851,953	2,975,528	3,186,527	3,219,568	3,315,564	3,339,807	3,445,296	3,471,313	3,550,533	3,702,909

10/18/2011

Ordering Sensitivities

Discount Rate: 6.71%

	$M NPVRR	$000 2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Retire TY GR CR and GH2	33,932	1,148,233	1,266,263	1,388,699	1,646,576	1,913,240	2,228,233	2,214,949	2,309,292	2,452,969	2,589,954	2,671,054	2,776,278	2,826,253	2,883,048	3,009,929	3,204,725	3,282,509	3,342,602	3,372,967	3,466,107	3,519,584	3,635,374	3,802,638
Retire TY GR CR and MC1-2	33,807	1,148,244	1,262,701	1,373,647	1,621,285	1,846,512	2,200,244	2,168,133	2,308,525	2,481,440	2,523,967	2,618,958	2,740,925	2,810,721	2,911,785	3,092,739	3,240,126	3,190,536	3,298,114	3,401,540	3,591,820	3,597,255	3,660,924	3,770,667

Total Revenue Requirements Delta

No Retirements	$M NPVRR	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Retire BR1-2	212	-489	-6,506	-10,415	3,249	478	-30,637	-32,601	-27,106	-7,782	31,120	80,363	15,467	-51,632	14,726	101,120	144,396	81,469	31,971	-15,415	-8,256	74,668	140,078	93,027
Retire TY	-1	0	-1,323	1,042	26,977	29,301	-12,528	-17,456	-16,244	-14,085	-12,224	-7,634	-4,195	1,651	-7,087	-10,633	-5,921	-5,219	12,168	29,342	30,304	24,761	14,747	-29,134
Retire TY and BR1-2	176	-489	-6,506	-15,605	-32,831	-37,384	-24,224	-22,455	-10,859	46,944	100,261	90,091	22,214	-48,839	-28,739	8,000	94,061	133,599	57,061	-16,627	-29,620	-5,334	10,807	79,983
Retire TY and GR3	-69	0	-1,323	-5,551	-19,842	-30,555	-40,361	-34,340	871	47,400	44,102	22,055	-28,225	-47,582	31,434	46,709	30,063	23,077	-41,242	-98,939	-67,169	4,824	76,205	76,888
Retire TY GR3 and BR3	603	0	-204	-1,451	1,356	-61	23,511	33,037	46,889	70,906	62,043	63,901	58,947	22,000	19,456	102,172	100,051	100,381	98,123	90,104	68,795	83,151	89,279	70,718
Retire TY GR3 and CR4	-87	-1,322	-8,171	-23,282	-35,631	-23,374	-16,634	-22,096	-51,478	-79,449	-37,870	34,842	11,734	-40,935	-45,340	29,591	89,855	27,152	28,378	17,688	-4,355	-7,306	-24,453	50,668
Retire TY GR3 CR4 and CR6	11	-2,432	-11,751	-33,887	-59,413	-56,640	-44,549	-32,041	21,548	81,775	30,502	-41,654	-14,774	2,467	4,302	22,745	5,330	28,451	27,568	34,514	29,274	54,369	85,361	26,962
Retire TY GR3 CR4 CR6 and BR1-2	230	-489	-6,506	-15,605	-33,118	-31,339	47,171	93,647	42,664	-42,533	-29,742	-6,927	53,382	109,806	57,030	-16,366	-42,088	719	17,342	80,680	151,133	64,781	-7,880	-817
Retire TY GR3 and CR	-57	-1,326	-8,764	-26,412	-50,255	-48,367	-26,426	13,166	27,597	-37,849	-43,434	-32,571	-20,088	36,700	53,459	-20,795	-57,389	-10,176	-140	36,986	112,930	29,809	-39,609	-28,219
Retire TY GR3 CR and GH3	921	-114	-565	-1,361	18,091	33,222	88,987	22,054	23,790	93,446	100,878	97,635	93,955	53,573	48,618	155,583	189,307	143,449	133,716	94,340	40,663	112,822	201,276	186,868
Retire TY GR3 CR and GH1	800	-187	-4,894	-12,006	8,448	36,763	99,050	38,438	-21,227	-272	76,490	145,198	133,364	71,251	21,077	51,303	143,515	188,076	150,451	133,292	53,331	83,751	80,107	143,075
Retire TY GR and CR	-94	0	-1,885	-5,910	-15,137	-10,267	31,260	35,895	-24,413	-45,854	-24,656	-12,744	29,051	38,177	-35,197	-26,081	-21,926	-22,594	-13,716	2,348	27,249	18,059	16,571	6,858
Retire TY GR CR and BR1-2	297	-489	-6,506	-11,817	-2,560	16,500	2,289	-60,871	-23,662	49,291	38,489	29,302	-6,082	-8,950	78,572	72,016	70,667	67,328	63,242	62,228	50,492	67,757	70,752	74,047
Retire TY GR CR BR1-2 and MC1-2	1,185	0	-7,206	-23,507	-35,558	-82,437	154,015	90,404	136,934	74,207	60,671	84,491	102,899	126,865	162,793	160,077	166,545	158,147	169,594	179,568	185,387	173,178	168,711	179,948
Retire TY and GR	-70	0	-1,885	-5,910	-14,764	-15,600	-16,172	-14,468	-1,356	17,903	14,689	11,302	674	-41,722	-52,743	18,069	63,204	18,731	16,034	5,043	-31,249	-71,375	-105,461	-52,042
Retire TY GR and CR4	-115	-1,322	-8,171	-23,282	-35,615	-23,362	-17,279	-24,892	-59,720	-63,717	-1,706	16,385	2,154	-2,518	-42,093	-48,637	16,534	27,252	29,560	26,217	23,246	36,362	60,773	83,569
Retire TY GR and CR5	-105	-1,326	-8,764	-25,009	-39,035	-26,616	-18,498	-19,976	-18,607	-23,089	-13,841	-9,613	-9,840	-8,944	-49,096	-47,994	11,622	24,995	22,310	16,361	38,999	35,312	64,940	80,560
Retire TY GR and CR6	-28	-2,432	-11,751	-32,484	-48,567	-35,020	-21,403	-21,304	-25,957	-35,002	-39,462	-33,007	-9,578	39,723	61,323	-1,951	-51,409	-1,745	12,830	78,031	148,447	116,883	97,582	51,155
Retire TY GR CR and MC4	859	-862	-12,710	-21,482	-1,174	2,221	51,782	-22,641	-10,015	75,181	139,657	134,138	63,657	25,538	43,830	90,650	161,785	237,137	189,462	139,430	15,776	80,107	80,580	176,434
Retire TY GR CR and TC1	996	0	0	2,991	35,023	60,285	80,371	-5,844	9,884	45,422	108,870	180,300	110,749	36,916	64,601	76,077	180,474	223,411	211,044	130,093	44,543	62,636	79,073	120,180
Retire TY GR CR and GH4	1,161	-122	-527	1,374	30,448	55,107	88,795	4,181	18,011	102,369	165,177	156,108	86,491	42,735	63,775	103,799	195,369	254,435	213,017	124,969	53,390	87,271	155,373	235,295
Retire TY GR CR and MC3	756	0	-1,379	-6,498	18,941	39,621	52,644	-22,363	-14,212	12,434	83,965	153,444	87,957	14,286	42,503	66,386	153,585	191,030	187,730	114,570	26,724	49,119	64,974	118,495
Retire TY GR CR and GH2	1,146	-11	-3,645	-4,667	20,041	37,447	87,835	10,527	26,465	91,199	172,268	157,778	101,151	43,667	73,598	100,787	171,784	253,971	214,768	147,730	47,535	97,390	149,815	218,225
Retire TY GR CR and MC1-2	1,022	0	-7,206	-19,719	-5,250	-29,281	59,846	-36,290	25,699	119,670	106,281	105,682	65,798	28,135	102,335	183,596	207,185	161,998	170,280	176,303	173,248	175,062	175,365	186,253

Total Revenue Requirements Cumulative Delta

No Retirements	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Retire BR1-2	-489	-6,995	-17,410	-14,161	-13,684	-44,321	-76,922	-104,028	-111,810	-80,690	-327	15,140	-36,492	-21,766	79,354	223,749	305,219	337,190	321,774	313,519	388,186	528,264	621,291
Retire TY	0	-1,323	-281	26,696	55,997	43,469	26,013	9,770	-4,316	-16,539	-24,174	-28,369	-26,718	-33,805	-44,438	-50,359	-55,578	-43,411	-14,068	16,235	40,996	55,744	26,610
Retire TY and BR1-2	-489	-6,995	-22,601	-55,431	-92,816	-117,040	-139,495	-150,354	-103,410	-3,149	86,942	109,156	60,317	31,578	39,578	133,638	267,238	324,299	307,671	278,052	272,717	283,524	363,507
Retire TY and GR3	0	-1,323	-6,874	-26,716	-57,271	-97,632	-131,972	-131,101	-83,701	-39,599	-17,543	-45,769	-93,351	-61,916	-15,207	14,856	37,933	-3,310	-102,249	-169,418	-164,593	-88,388	-11,500
Retire TY GR3 and BR3	0	-204	-1,655	-300	-361	23,151	56,188	103,076	173,982	236,025	299,926	358,873	380,872	400,328	502,500	602,551	702,932	801,055	891,159	959,954	1,043,105	1,132,384	1,203,103
Retire TY GR3 and CR4	-1,322	-9,493	-32,775	-68,406	-91,780	-108,414	-130,509	-181,987	-261,436	-299,306	-264,464	-252,730	-293,664	-339,005	-309,413	-219,559	-192,406	-164,028	-146,340	-150,695	-158,000	-182,453	-131,785
Retire TY GR3 CR4 and CR6	-2,432	-14,184	-48,070	-107,483	-164,123	-208,671	-240,712	-219,164	-137,389	-106,887	-148,541	-163,314	-160,847	-156,545	-133,800	-128,470	-100,019	-72,451	-37,937	-8,663	45,706	131,068	158,029
Retire TY GR3 CR4 CR6 and BR1-2	-489	-6,995	-22,601	-55,718	-87,058	-39,887	53,760	96,424	53,891	24,149	17,222	70,604	180,410	237,440	221,074	178,985	179,705	197,047	277,726	428,860	493,640	485,760	484,943
Retire TY GR3 and CR	-1,326	-10,090	-36,502	-86,757	-135,124	-161,550	-148,385	-120,787	-158,636	-202,070	-234,641	-254,729	-218,029	-164,570	-185,365	-242,754	-252,930	-253,070	-216,084	-103,154	-73,345	-112,954	-141,172
Retire TY GR3 CR and GH3	-114	-680	-2,041	16,051	49,273	138,260	160,314	184,104	277,550	378,428	476,063	570,018	623,591	672,209	827,792	1,017,099	1,160,548	1,294,264	1,388,604	1,429,267	1,542,089	1,743,366	1,930,234
Retire TY GR3 CR and GH1	-187	-5,081	-17,087	-8,640	28,123	127,173	165,611	144,384	144,112	220,602	365,800	499,164	570,415	591,491	642,795	786,309	974,385	1,124,836	1,258,127	1,311,458	1,395,209	1,475,316	1,618,392
Retire TY GR and CR	0	-1,885	-7,795	-22,933	-33,200	-1,940	33,955	9,542	-36,312	-60,968	-73,713	-44,661	-6,485	-41,681	-67,762	-89,688	-112,281	-125,997	-123,650	-96,401	-78,342	-61,772	-54,913
Retire TY GR CR and BR1-2	-489	-6,995	-18,812	-21,372	-4,873	-2,584	-63,455	-87,117	-37,826	663	29,965	23,883	14,933	93,505	165,521	236,187	303,516	366,758	428,985	479,478	547,234	617,986	692,033
Retire TY GR CR BR1-2 and MC1-2	0	-7,206	-30,713	-66,271	-148,708	5,307	95,712	232,646	306,852	367,524	452,014	554,913	681,779	844,572	1,004,649	1,171,194	1,329,341	1,498,935	1,678,503	1,863,890	2,037,067	2,205,778	2,385,726
Retire TY and GR	0	-1,885	-7,795	-22,560	-38,160	-54,332	-68,800	-70,156	-52,253	-37,564	-26,263	-25,588	-67,311	-120,053	-101,984	-38,780	-20,048	-4,014	1,028	-30,221	-101,596	-207,058	-259,099
Retire TY GR and CR4	-1,322	-9,493	-32,775	-68,390	-91,752	-109,031	-133,922	-193,642	-257,359	-259,065	-242,680	-240,526	-243,043	-285,137	-333,773	-317,240	-289,987	-260,427	-234,210	-210,964	-174,601	-113,828	-30,259
Retire TY GR and CR5	-1,326	-10,090	-35,099	-74,134	-100,750	-119,248	-139,225	-157,831	-180,920	-194,761	-204,374	-214,214	-223,158	-272,254	-320,248	-308,626	-283,631	-261,321	-244,960	-205,961	-170,649	-105,709	-25,148
Retire TY GR and CR6	-2,432	-14,184	-46,667	-95,234	-130,254	-151,656	-172,960	-198,917	-233,919	-273,381	-306,388	-315,965	-276,242	-214,919	-216,870	-268,279	-270,024	-257,194	-179,163	-30,716	86,167	183,750	234,904
Retire TY GR CR and MC4	-862	-13,572	-35,053	-36,228	-34,007	17,775	-4,866	-14,881	60,300	199,957	334,096	397,752	423,291	467,121	557,770	719,555	956,693	1,146,154	1,285,584	1,301,360	1,381,467	1,462,047	1,638,482
Retire TY GR CR and TC1	0	0	2,991	38,014	98,299	178,670	172,826	182,710	228,132	337,003	517,303	628,052	664,968	729,569	805,646	986,120	1,209,531	1,420,575	1,550,669	1,595,211	1,657,848	1,736,921	1,857,101
Retire TY GR CR and GH4	-122	-649	725	31,172	86,280	175,074	179,256	197,267	299,635	464,813	620,921	707,412	750,147	813,922	917,721	1,113,090	1,367,525	1,580,543	1,705,512	1,758,901	1,846,172	2,001,545	2,236,841
Retire TY GR CR and MC3	0	-1,379	-7,877	11,064	50,685	103,329	80,966	66,755	79,189	163,153	316,597	404,554	418,840	461,343	527,728	681,314	872,344	1,060,074	1,174,644	1,201,368	1,250,487	1,315,460	1,433,956
Retire TY GR CR and GH2	-11	-3,656	-8,323	11,718	49,164	136,999	147,526	173,991	265,190	437,459	595,236	696,387	740,054	813,652	914,439	1,086,223	1,340,194	1,554,962	1,702,692	1,750,227	1,847,617	1,997,432	2,215,657
Retire TY GR CR and MC1-2	0	-7,206	-26,925	-32,175	-61,456	-1,610	-37,899	-12,200	107,469	213,751	319,432	385,230	413,366	515,701	699,297	906,482	1,068,480	1,238,760	1,415,063	1,588,311	1,763,372	1,938,737	2,124,990

Discount Rate:

	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058
New Unit Capital and Production Cost																									
No Retirements	2,810,631	2,877,641	2,916,904	2,970,823	3,106,259	3,099,803	3,223,636																		
Retire BR1-2	2,873,901	2,941,664	2,981,922	3,026,939	3,160,709	3,183,910	3,299,111																		
Retire TY	2,781,021	2,906,645	2,947,160	2,993,718	3,098,752	3,099,189	3,218,926																		
Retire TY and BR1-2	2,931,001	2,993,414	3,030,521	3,069,597	3,183,594	3,182,987	3,303,422																		
Retire TY and GR3	2,819,356	2,884,041	2,921,047	2,965,706	3,088,952	3,111,229	3,228,395																		
Retire TY GR3 and BR3	2,941,342	3,012,379	3,052,454	3,105,052	3,232,762	3,261,067	3,356,267																		
Retire TY GR3 and CR4	2,906,093	2,976,345	3,004,967	3,047,571	3,156,720	3,152,686	3,282,115																		
Retire TY GR3 CR4 and CR6	2,954,746	3,025,141	3,070,022	3,114,639	3,228,839	3,269,102	3,386,758																		
Retire TY GR3 CR4 CR6 and BR1-2	2,993,499	3,082,018	3,163,707	3,207,615	3,344,712	3,348,270	3,481,456																		
Retire TY GR3 and CR	3,010,954	3,141,044	3,177,958	3,231,578	3,324,386	3,340,755	3,462,085																		
Retire TY GR3 CR and GH3	3,211,353	3,283,710	3,330,863	3,375,721	3,475,090	3,541,696	3,652,749																		
Retire TY GR3 CR and GH1	3,227,107	3,273,424	3,342,764	3,387,813	3,510,587	3,547,397	3,667,944																		
Retire TY GR and CR	2,990,195	3,079,456	3,153,676	3,209,119	3,335,277	3,345,599	3,474,318																		
Retire TY GR CR and BR1-2	3,095,065	3,175,236	3,235,692	3,312,595	3,419,192	3,460,217	3,573,966																		
Retire TY GR CR BR1-2 and MC1-2	3,374,019	3,456,639	3,522,729	3,611,677	3,719,225	3,759,784	3,875,880																		
Retire TY and GR	2,871,878	2,946,581	2,980,125	3,019,206	3,123,719	3,123,551	3,240,189																		
Retire TY GR and CR4	2,904,822	2,979,788	3,010,364	3,055,550	3,164,992	3,162,794	3,293,206																		
Retire TY GR and CR5	2,907,478	2,978,076	3,009,326	3,059,681	3,167,657	3,173,586	3,293,687																		
Retire TY GR and CR6	2,875,034	2,956,360	3,033,195	3,070,823	3,187,395	3,231,840	3,341,381																		
Retire TY GR CR and MC4	3,302,720	3,374,101	3,401,496	3,458,484	3,524,069	3,571,697	3,683,545																		
Retire TY GR CR and TC1	3,245,550	3,299,753	3,354,616	3,393,757	3,521,728	3,554,607	3,682,337																		
Retire TY GR CR and GH4	3,287,491	3,366,054	3,380,935	3,452,594	3,544,082	3,568,899	3,688,305																		
Retire TY GR CR and MC3	3,230,741	3,273,640	3,340,545	3,385,116	3,507,401	3,543,250	3,666,994																		
Retire TY GR CR and GH2	3,290,293	3,371,947	3,410,548	3,449,403	3,554,470	3,566,153	3,670,304																		
Retire TY GR CR and MC1-2	3,270,326	3,360,027	3,434,564	3,498,221	3,628,147	3,634,769	3,766,518																		
Production Cost																									
No Retirements	2,458,883	2,503,116	2,545,485	2,606,674	2,738,038	2,733,620	2,866,458																		
Retire BR1-2	2,474,243	2,559,009	2,615,771	2,675,885	2,814,649	2,831,421	2,948,221																		
Retire TY	2,437,730	2,528,558	2,546,758	2,597,664	2,720,053	2,736,074	2,869,662																		
Retire TY and BR1-2	2,545,808	2,573,889	2,611,033	2,666,256	2,795,877	2,810,421	2,945,583																		
Retire TY and GR3	2,418,957	2,500,375	2,552,626	2,612,046	2,740,908	2,757,377	2,875,350																		
Retire TY GR3 and BR3	2,531,888	2,619,660	2,674,722	2,741,858	2,874,962	2,897,236	2,994,435																		
Retire TY GR3 and CR4	2,477,164	2,549,090	2,596,267	2,655,877	2,780,577	2,791,680	2,936,049																		
Retire TY GR3 CR4 and CR6	2,545,292	2,632,422	2,692,290	2,751,445	2,871,039	2,905,271	3,024,926																		
Retire TY GR3 CR4 CR6 and BR1-2	2,628,375	2,722,690	2,799,360	2,836,995	2,965,100	2,970,726	3,113,147																		
Retire TY GR3 and CR	2,627,130	2,723,086	2,738,244	2,796,638	2,907,227	2,940,986	3,077,938																		
Retire TY GR3 CR and GH3	2,761,222	2,851,445	2,914,715	2,975,242	3,081,135	3,142,841	3,257,023																		
Retire TY GR3 CR and GH1	2,814,632	2,840,527	2,915,457	2,977,473	3,106,779	3,138,543	3,261,764																		
Retire TY GR and CR	2,625,071	2,720,128	2,789,329	2,838,499	2,955,665	2,968,055	3,106,009																		
Retire TY GR CR and BR1-2	2,693,138	2,788,999	2,855,531	2,927,635	3,028,336	3,060,676	3,177,079																		
Retire TY GR CR BR1-2 and MC1-2	2,942,784	3,041,022	3,114,027	3,199,015	3,301,507	3,334,221	3,453,810																		
Retire TY and GR	2,486,651	2,526,591	2,559,674	2,615,597	2,736,347	2,751,907	2,883,847																		
Retire TY GR and CR4	2,486,623	2,563,018	2,610,710	2,671,219	2,795,523	2,807,773	2,952,437																		
Retire TY GR and CR5	2,495,335	2,566,007	2,613,049	2,678,684	2,801,479	2,821,814	2,956,124																		
Retire TY GR and CR6	2,513,784	2,601,554	2,673,105	2,712,724	2,830,785	2,870,094	2,981,005																		
Retire TY GR CR and MC4	2,861,780	2,900,377	2,929,359	3,004,044	3,086,801	3,151,130	3,279,255																		
Retire TY GR CR and TC1	2,833,075	2,866,856	2,927,309	2,983,417	3,117,920	3,145,753	3,276,157																		
Retire TY GR CR and GH4	2,805,470	2,887,137	2,920,808	3,009,464	3,117,489	3,158,429	3,293,761																		
Retire TY GR CR and MC3	2,818,266	2,840,742	2,913,238	2,974,776	3,103,593	3,134,396	3,260,814																		
Retire TY GR CR and GH2	2,808,272	2,893,030	2,950,421	3,006,273	3,127,877	3,155,683	3,275,760																		
Retire TY GR CR and MC1-2	2,856,806	2,954,100	3,024,164	3,082,096	3,203,577	3,214,194	3,358,485																		
Production Cost Delta																									
No Retirements																									
Retire BR1-2	15,360	55,893	70,285	69,210	76,611	97,800	81,764																		
Retire TY	-21,153	25,442	1,273	-9,010	-17,985	2,454	3,205																		
Retire TY and BR1-2	108,079	45,331	64,275	68,592	75,823	74,347	75,921																		
Retire TY and GR3	-18,773	-28,183	5,869	14,381	20,854	21,303	5,687																		
Retire TY GR3 and BR3	112,931	119,285	122,096	129,812	134,054	139,860	119,085																		
Retire TY GR3 and CR4	58,207	48,715	43,640	43,832	39,669	34,303	60,700																		
Retire TY GR3 CR4 and CR6	68,127	83,332	96,024	95,568	90,462	113,592	88,877																		
Retire TY GR3 CR4 CR6 and BR1-2	83,083	90,268	107,069	85,550	94,061	65,455	88,221																		
Retire TY GR3 and CR	81,838	90,663	45,953	45,193	36,189	35,714	53,012																		
Retire TY GR3 CR and GH3	134,092	128,359	176,472	178,604	173,908	201,855	179,085																		
Retire TY GR3 CR and GH1	187,502	117,441	177,213	180,835	199,552	197,558	183,826																		
Retire TY GR and CR	-2,058	-2,958	51,085	41,861	48,437	27,070	28,071																		
Retire TY GR CR and BR1-2	68,067	68,871	66,202	89,136	72,671	92,621	71,069																		
Retire TY GR CR BR1-2 and MC1-2	249,646	252,023	258,496	271,381	273,171	273,545	276,731																		
Retire TY and GR	67,694	26,216	7,048	3,552	-4,561	-5,470	8,498																		
Retire TY GR and CR4	-27	36,427	51,036	55,622	59,176	55,867	68,590																		
Retire TY GR and CR5	8,685	39,416	53,374	63,087	65,132	69,908	72,277																		

Discount Rate:

	2034	2035	2036	2037	2038	2039	2040
Retire TY GR and CR6	27,133	74,963	113,431	97,127	94,438	118,188	97,158
Retire TY GR CR and MC4	236,708	180,249	140,030	165,545	131,137	183,075	173,245
Retire TY GR CR and TC1	208,004	146,727	137,980	144,918	162,255	177,698	170,148
Retire TY GR CR and GH4	180,399	167,009	131,479	170,965	161,824	190,374	187,752
Retire TY GR CR and MC3	193,195	120,614	123,909	136,277	147,928	166,341	154,805
Retire TY GR CR and GH2	183,201	172,902	161,092	167,774	172,212	187,628	169,751
Retire TY GR CR and MC1-2	231,735	233,972	234,836	243,597	247,912	246,139	252,475
New Unit Capital							
No Retirements	351,748	374,525	371,419	364,149	368,221	366,183	357,179
Retire BR1-2	399,658	382,655	366,151	351,054	346,060	352,490	350,890
Retire TY	343,291	378,087	400,402	396,054	378,699	363,115	349,264
Retire TY and BR1-2	385,193	419,525	419,488	403,341	387,717	372,566	357,839
Retire TY and GR3	400,399	383,666	368,421	353,661	348,044	353,852	353,045
Retire TY GR3 and BR3	409,454	392,719	377,732	363,194	357,800	363,831	361,832
Retire TY GR3 and CR4	428,929	427,255	408,700	391,694	376,143	361,006	346,066
Retire TY GR3 CR4 and CR6	409,454	392,719	377,732	363,194	357,800	363,831	361,832
Retire TY GR3 CR4 CR6 and BR1-2	365,124	359,328	364,348	370,620	379,613	377,544	368,309
Retire TY GR3 and CR	383,824	417,958	439,714	434,940	417,159	399,769	384,147
Retire TY GR3 CR and GH3	450,131	432,265	416,148	400,479	393,955	398,855	395,726
Retire TY GR3 CR and GH1	412,475	432,898	427,307	410,340	403,808	408,854	406,180
Retire TY GR and CR	365,124	359,328	364,348	370,620	379,612	377,544	368,309
Retire TY GR CR and BR1-2	401,927	386,237	380,161	384,960	390,856	399,541	396,887
Retire TY GR CR BR1-2 and MC1-2	431,235	415,617	408,702	412,662	417,718	425,563	422,070
Retire TY and GR	385,227	419,990	420,451	403,609	387,372	371,645	356,342
Retire TY GR and CR4	418,199	416,770	399,654	384,332	369,469	355,021	340,769
Retire TY GR and CR5	412,143	412,069	396,277	380,997	366,178	351,772	337,563
Retire TY GR and CR6	361,250	354,806	360,090	358,099	356,610	361,746	360,376
Retire TY GR CR and MC4	440,940	473,724	472,137	454,440	437,268	420,567	404,290
Retire TY GR CR and TC1	412,475	432,898	427,307	410,340	403,808	408,854	406,180
Retire TY GR CR and GH4	482,021	478,917	460,127	443,130	426,593	410,470	394,544
Retire TY GR CR and MC3	412,475	432,898	427,307	410,340	403,808	408,854	406,180
Retire TY GR CR and GH2	482,021	478,917	460,127	443,130	426,593	410,470	394,544
Retire TY GR CR and MC1-2	413,520	405,927	410,400	416,125	424,570	420,575	408,033
New Unit Capital Delta							
No Retirements							
Retire BR1-2	47,910	8,130	-5,267	-13,094	-22,161	-13,693	-6,289
Retire TY	-8,457	3,562	28,984	31,905	10,478	-3,068	-7,915
Retire TY and BR1-2	41,902	41,438	19,086	7,287	9,019	9,451	8,575
Retire TY and GR3	57,108	5,579	-31,982	-42,393	-30,654	-9,263	3,782
Retire TY GR3 and BR3	9,056	9,053	9,311	9,534	9,756	9,978	8,787
Retire TY GR3 and CR4	28,530	43,589	40,280	38,034	28,099	7,154	-6,980
Retire TY GR3 CR4 and CR6	-19,474	-34,536	-30,969	-28,500	-18,343	2,825	15,766
Retire TY GR3 CR4 CR6 and BR1-2	-44,330	-33,391	-13,384	7,426	21,812	13,713	6,477
Retire TY GR3 and CR	-25,630	25,240	61,983	71,746	59,358	35,939	22,315
Retire TY GR3 CR and GH3	66,307	14,307	-23,567	-34,461	-23,204	-914	11,579
Retire TY GR3 CR and GH1	28,651	14,939	-12,407	-24,600	-13,351	9,084	22,033
Retire TY GR and CR	-18,701	-58,630	-75,367	-64,320	-37,546	-22,226	-15,838
Retire TY GR CR and BR1-2	36,803	26,909	15,814	14,341	11,244	21,997	28,579
Retire TY GR CR BR1-2 and MC1-2	29,308	29,380	28,541	27,701	26,862	26,022	25,183
Retire TY and GR	-15,172	36,324	52,030	49,949	39,328	17,792	3,297
Retire TY GR and CR4	32,971	-3,220	-20,797	-19,278	-17,903	-16,624	-15,573
Retire TY GR and CR5	26,916	-7,921	-24,173	-22,612	-21,194	-19,873	-18,779
Retire TY GR and CR6	-23,977	-65,184	-60,361	-45,510	-30,762	-9,899	4,035
Retire TY GR CR and MC4	75,817	114,396	107,790	83,820	57,655	43,023	35,982
Retire TY GR CR and TC1	47,351	73,570	62,960	39,720	24,196	31,310	37,871
Retire TY GR CR and GH4	116,897	119,589	95,780	72,510	46,981	32,926	26,235
Retire TY GR CR and MC3	47,351	73,570	62,960	39,720	24,196	31,310	37,871
Retire TY GR CR and GH2	116,897	119,589	95,780	72,510	46,981	32,926	26,235
Retire TY GR CR and MC1-2	48,396	46,599	46,052	45,505	44,958	43,031	39,725
New Controls Capital							
No Retirements	141,026	135,277	119,424	109,283	101,867	88,953	74,209
Retire BR1-2	128,596	123,269	107,838	98,119	91,125	78,632	64,310
Retire TY	138,662	132,998	117,231	107,176	99,846	87,017	72,358
Retire TY and BR1-2	126,232	120,991	105,645	96,012	89,103	76,696	62,459
Retire TY and GR3	136,297	130,720	115,038	105,069	97,824	85,081	70,508
Retire TY GR3 and BR3	129,594	124,219	108,740	98,973	91,931	79,391	65,021
Retire TY GR3 and CR4	136,297	130,720	115,038	105,069	97,824	85,081	70,508
Retire TY GR3 CR4 and CR6	136,297	130,720	115,038	105,069	97,624	85,081	70,508
Retire TY GR3 CR4 CR6 and BR1-2	123,868	118,712	103,452	93,904	87,082	74,760	60,609
Retire TY GR3 and CR	136,297	130,720	115,038	105,069	97,824	85,081	70,508
Retire TY GR3 CR and GH3	124,848	119,595	104,237	94,591	87,670	75,250	61,001

	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058
New Controls Capital																		
No Retirements	52,894	45,452	42,906	37,390	35,540	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire BR1-2	43,417	36,396	34,272	29,178	27,749	25,245	24,162	23,079	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY	51,130	43,773	41,312	35,882	34,117	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY and BR1-2	41,652	34,717	32,678	27,670	26,327	25,245	24,162	23,079	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY and GR3	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 and BR3	44,080	37,012	34,840	29,698	28,222	28,342	24,730	20,598	18,334	17,123	16,121	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 and CR4	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 CR4 and CR6	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 CR4 CR6 and BR1-2	39,888	33,038	31,085	26,162	24,905	25,245	24,162	23,079	21,997	20,585	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 and CR	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 CR and GH3	40,181	33,234	31,183	26,162	24,807	25,048	21,556	17,546	15,403	14,313	11,613	5,135	4,897	4,659	4,421	4,000	3,489	253

Discount Rate:

	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058
Retire TY GR3 CR and GH1	127,713	122,527	107,236	97,657	90,804	78,451	67,816	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR and CR	133,122	127,707	112,188	102,381	97,824	85,081	70,508	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and BR1-2	120,692	115,699	100,602	91,217	87,082	74,760	60,609	39,888	33,038	31,085	26,162	24,905	25,245	24,162	23,079	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR BR1-2 and MC1-2	85,170	82,020	78,869	75,718	72,447	68,818	60,609	39,888	33,038	31,085	26,162	24,905	25,245	24,162	23,079	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY and GR	133,122	127,707	112,188	102,381	97,824	85,081	70,508	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR and CR4	133,122	127,707	112,188	102,381	97,824	85,081	70,508	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR and CR5	133,122	127,707	112,188	102,381	97,824	85,081	70,508	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR and CR6	133,122	127,707	112,188	102,381	97,824	85,081	70,508	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and MC4	*112,041*	*107,564*	*92,984*	*84,115*	*80,616*	*68,889*	*56,377*	48,351	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and TC1	126,129	120,988	105,743	96,210	91,927	79,458	65,159	44,290	37,293	35,533	34,114	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and GH4	122,452	117,356	102,155	92,667	88,428	76,004	61,749	40,925	33,972	31,916	26,890	25,529	25,766	22,269	18,253	16,105	15,341	12,691	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and MC3	120,481	115,617	100,648	91,392	87,386	75,594	61,960	44,459	41,752	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and GH2	123,707	118,530	103,249	93,680	89,361	76,855	62,520	41,615	34,581	32,444	27,338	25,896	26,052	22,474	18,378	16,149	14,973	12,154	5,232	4,152	214	0	0	0	0
Retire TY GR CR and MC1-2	97,600	94,027	90,455	86,883	83,190	79,138	70,508	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
New Controls Capital Delta																									
No Retirements																									
Retire BR1-2	-12,429	-12,008	-11,586	-11,164	-10,742	-10,321	-9,899	-9,477	-9,055	-8,634	-8,212	-7,790	-7,369	-4,636	-1,384	0	0	0	0	0	0	0	0	0	0
Retire TY	-2,364	-2,279	-2,193	-2,107	-2,022	-1,936	-1,850	-1,765	-1,679	-1,594	-1,508	-1,422	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and BR1-2	-12,429	-12,008	-11,586	-11,164	-10,742	-10,321	-9,899	-9,477	-9,055	-8,634	-8,212	-7,790	-7,369	-4,636	-1,384	0	0	0	0	0	0	0	0	0	0
Retire TY and GR3	-2,364	-2,279	-2,193	-2,107	-2,022	-1,936	-1,850	-1,765	-1,679	-1,594	-1,508	-1,422	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and BR3	-6,703	-6,501	-6,298	-6,095	-5,893	-5,690	-5,487	-5,284	-5,082	-4,879	-4,676	-4,474	-4,271	-4,068	-3,865	-3,663	-3,460	-1,405	0	0	0	0	0	0	0
Retire TY GR3 and CR4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 and CR6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 CR6 and BR1-2	-12,429	-12,008	-11,586	-11,164	-10,742	-10,321	-9,899	-9,477	-9,055	-8,634	-8,212	-7,790	-7,369	-4,636	-1,384	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH3	-11,449	-11,125	-10,802	-10,478	-10,154	-9,831	-9,507	-9,183	-8,860	-8,536	-8,212	-7,889	-7,565	-7,241	-6,918	-6,594	-6,270	-5,913	-5,232	-4,152	-214	0	0	0	0
Retire TY GR3 CR and GH1	-8,584	-8,193	-7,802	-7,411	-7,020	-6,629	-2,692	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR	-3,176	-3,013	-2,850	-2,687	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and BR1-2	-12,429	-12,008	-11,586	-11,164	-10,742	-10,321	-9,899	-9,477	-9,055	-8,634	-8,212	-7,790	-7,369	-4,636	-1,384	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR BR1-2 and MC1-2	-35,522	-33,680	-21,733	-15,499	-14,634	-5,943	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and GR	-3,176	-3,013	-2,850	-2,687	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC4	-21,080	-20,142	-19,204	-18,266	-17,208	-16,191	-14,131	-1,014	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and TC1	-6,993	-6,719	-6,445	-6,171	-5,897	-5,623	-5,349	-5,075	-4,801	-4,186	-261	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH4	-10,670	-10,351	-10,033	-9,714	-9,395	-9,077	-8,758	-8,440	-8,121	-7,803	-7,484	-7,166	-6,847	-6,529	-6,210	-5,892	-5,243	-4,835	0	0	0	0	0	0	0
Retire TY GR CR and MC3	-12,641	-12,090	-11,540	-10,989	-10,438	-9,487	-8,547	-4,906	-341	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH2	-9,414	-9,177	-8,939	-8,701	-8,463	-8,226	-7,988	-7,750	-7,512	-7,274	-7,037	-6,799	-6,561	-6,323	-6,086	-5,848	-5,610	-5,372	-5,135	-4,897	-4,659	-4,421	-4,000	-3,489	-253
Retire TY GR CR and MC1-2	-35,522	-33,680	-21,733	-15,499	-14,634	-5,943	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTP Capital																									
No Retirements	139,365	145,108	150,899	156,087	161,351	166,658	172,046																		
Retire BR1-2	134,124	139,640	145,202	150,159	155,190	160,261	165,410																		
Retire TY	136,574	142,204	147,882	152,995	158,182	163,409	168,716																		
Retire TY and BR1-2	131,333	136,737	142,185	147,067	152,020	157,012	162,080																		
Retire TY and GR3	135,423	141,005	146,635	151,700	156,839	162,032	167,305																		
Retire TY GR3 and BR3	*127,287*	*132,516*	137,793	142,498	*147,275*	152,102	157,005																		
Retire TY GR3 and CR4	133,190	138,717	144,290	149,295	154,374	159,506	164,715																		
Retire TY GR3 CR4 and CR6	129,732	135,173	140,657	145,572	150,558	155,594	160,706																		
Retire TY GR3 CR4 CR6 and BR1-2	124,491	129,705	134,960	139,644	144,396	149,197	154,070																		
Retire TY GR3 and CR	127,312	132,692	138,115	142,966	147,886	152,856	157,899																		
Retire TY GR3 CR and GH3	112,482	117,220	121,994	126,191	130,449	134,750	139,117																		
Retire TY GR3 CR and GH1	112,636	117,381	122,162	126,365	130,631	134,939	139,312																		
Retire TY GR and CR	125,703	131,017	136,373	141,157	146,010	150,933	155,928																		
Retire TY GR CR and BR1-2	120,462	125,549	130,676	135,229	139,849	144,536	149,293																		
Retire TY GR CR BR1-2 and MC1-2	101,970	106,310	110,687	114,741	118,848	123,011	127,229																		
Retire TY and GR	133,814	139,330	144,894	149,891	154,962	160,109	165,334																		
Retire TY GR and CR4	131,581	137,041	142,548	147,487	152,498	157,583	162,744																		
Retire TY GR and CR5	131,394	136,849	142,351	147,285	152,291	157,371	162,527																		
Retire TY GR and CR6	130,356	135,786	141,261	146,168	151,146	156,198	161,324																		
Retire TY GR CR and MC4	111,099	115,823	120,587	124,977	129,425	133,934	138,504																		
Retire TY GR CR and TC1	122,417	127,586	132,796	137,432	142,136	146,907	151,749																		
Retire TY GR CR and GH4	110,903	115,577	120,286	124,417	128,609	132,865	137,185																		
Retire TY GR CR and MC3	113,732	118,562	123,433	127,894	*132,416*	*136,999*	*141,645*																		
Retire TY GR CR and GH2	110,749	115,416	120,118	124,242	128,428	132,676	136,989																		
Retire TY GR CR and MC1-2	107,211	111,778	116,384	120,669	125,010	129,408	133,865																		
MTP Capital Delta																									
No Retirements																									
Retire BR1-2	-5,241	-5,468	-5,697	-5,928	-6,161	-6,397	-6,635																		
Retire TY	-2,790	-2,904	-3,017	-3,092	-3,170	-3,249	-3,330																		
Retire TY and BR1-2	-5,241	-5,468	-5,697	-5,928	-6,161	-6,397	-6,635																		

Discount Rate:

	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058
Retire TY and GR3	-1,152	-1,199	-1,247	-1,295	-1,343	-1,377	-1,411																		
Retire TY GR3 and BR3	-8,136	-8,488	-8,843	-9,202	-9,564	-9,930	-10,300																		
Retire TY GR3 and CR4	-2,233	-2,289	-2,346	-2,405	-2,465	-2,526	-2,589																		
Retire TY GR3 CR4 and CR6	-3,457	-3,544	-3,632	-3,723	-3,816	-3,912	-4,009																		
Retire TY GR3 CR4 CR6 and BR1-2	-5,241	-5,468	-5,697	-5,928	-6,161	-6,397	-6,635																		
Retire TY GR3 and CR	-2,420	-2,481	-2,543	-2,606	-2,671	-2,738	-2,807																		
Retire TY GR3 CR and GH3	-14,831	-15,472	-16,121	-16,775	-17,437	-18,106	-18,782																		
Retire TY GR3 CR and GH1	-14,676	-15,311	-15,953	-16,601	-17,256	-17,918	-18,587																		
Retire TY GR and CR	-1,609	-1,675	-1,742	-1,809	-1,876	-1,923	-1,971																		
Retire TY GR CR and BR1-2	-5,241	-5,468	-5,697	-5,928	-6,161	-6,397	-6,635																		
Retire TY GR CR BR1-2 and MC1-2	-18,492	-19,239	-19,988	-20,488	-21,000	-21,525	-22,063																		
Retire TY and GR	-1,609	-1,675	-1,742	-1,809	-1,876	-1,923	-1,971																		
Retire TY GR and CR4	-2,233	-2,289	-2,346	-2,405	-2,465	-2,526	-2,589																		
Retire TY GR and CR5	-2,420	-2,481	-2,543	-2,606	-2,671	-2,738	-2,807																		
Retire TY GR and CR6	-3,457	-3,544	-3,632	-3,723	-3,816	-3,912	-4,009																		
Retire TY GR CR and MC4	-14,604	-15,194	-15,786	-16,180	-16,585	-16,999	-17,424																		
Retire TY GR CR and TC1	-3,286	-3,431	-3,577	-3,725	-3,875	-4,026	-4,180																		
Retire TY GR CR and GH4	-14,800	-15,440	-16,087	-16,741	-17,401	-18,069	-18,743																		
Retire TY GR CR and MC3	-11,971	-12,455	-12,940	-13,263	-13,595	-13,934	-14,283																		
Retire TY GR CR and GH2	-14,954	-15,601	-16,255	-16,915	-17,583	-18,257	-18,939																		
Retire TY GR CR and MC1-2	-18,492	-19,239	-19,988	-20,488	-21,000	-21,525	-22,063																		
Landfill Capital																									
No Retirements	*115,469*	*117,869*	*118,900*	*120,220*	*42,001*	*38,766*	37,512																		
Retire BR1-2	114,514	116,991	118,757	120,098	41,900	38,686	37,449																		
Retire TY	115,469	117,869	118,900	120,220	42,001	38,766	37,512																		
Retire TY and BR1-2	114,514	116,991	118,757	120,098	41,900	38,686	37,449																		
Retire TY and GR3	115,469	117,869	118,900	120,220	42,001	38,766	37,512																		
Retire TY GR3 and BR3	113,987	116,506	118,678	120,031	41,844	38,642	37,415																		
Retire TY GR3 and CR4	113,721	116,150	117,208	118,512	40,273	37,019	35,741																		
Retire TY GR3 CR4 and CR6	110,944	113,487	114,566	115,867	37,599	34,314	33,000																		
Retire TY GR3 CR4 CR6 and BR1-2	109,989	112,609	114,445	115,745	37,498	34,234	32,937																		
Retire TY GR3 and CR	109,049	111,624	112,754	114,016	35,727	32,420	31,081																		
Retire TY GR3 CR and GH3	89,473	91,157	91,345	92,095	33,209	30,546	29,362																		
Retire TY GR3 CR and GH1	89,677	91,370	91,568	92,323	33,235	30,566	29,380																		
Retire TY GR and CR	109,049	111,624	112,754	114,016	35,727	32,420	31,081																		
Retire TY GR CR and BR1-2	108,094	110,746	112,611	113,894	35,626	32,340	31,018																		
Retire TY GR CR BR1-2 and MC1-2	108,094	110,746	112,611	113,894	35,626	32,340	31,018																		
Retire TY and GR	115,469	117,869	118,900	120,220	42,001	38,766	37,512																		
Retire TY GR and CR4	*113,721*	*116,150*	*117,208*	*118,512*	*40,273*	*37,019*	*35,741*																		
Retire TY GR and CR5	113,575	116,005	117,066	118,369	40,129	36,872	35,593																		
Retire TY GR and CR6	112,692	115,207	116,280	117,575	39,326	36,061	34,770																		
Retire TY GR CR and MC4	109,049	111,624	112,754	114,016	35,727	32,420	31,081																		
Retire TY GR CR and TC1	97,383	100,281	101,723	103,285	25,285	22,258	21,195																		
Retire TY GR CR and GH4	89,514	91,199	91,390	92,141	33,214	30,550	29,366																		
Retire TY GR CR and MC3	109,049	111,624	112,754	114,016	35,727	32,420	31,081																		
Retire TY GR CR and GH2	89,310	90,986	91,167	91,912	33,188	30,531	29,348																		
Retire TY GR CR and MC1-2	109,049	111,624	112,754	114,016	35,727	32,420	31,081																		
Landfill Capital Delta																									
No Retirements																									
Retire BR1-2	-955	-878	-143	-122	-101	-80	-62																		
Retire TY	0	0	0	0	0	0	0																		
Retire TY and BR1-2	-955	-878	-143	-122	-101	-80	-62																		
Retire TY and GR3	0	0	0	0	0	0	0																		
Retire TY GR3 and BR3	*-1,482*	*-1,363*	-222	*-189*	-157	-124	-97																		
Retire TY GR3 and CR4	-1,748	-1,719	-1,692	-1,708	-1,727	-1,747	-1,771																		
Retire TY GR3 CR4 and CR6	-2,777	-2,662	-2,620	-2,645	-2,674	-2,705	-2,742																		
Retire TY GR3 CR4 CR6 and BR1-2	-955	-878	-143	-122	-101	-80	-62																		
Retire TY GR3 and CR	-1,895	-1,864	-1,834	-1,851	-1,872	-1,894	-1,919																		
Retire TY GR3 CR and GH3	-19,576	-20,467	-21,409	-21,921	-2,518	-1,874	-1,718																		
Retire TY GR3 CR and GH1	-19,372	-20,254	-21,186	-21,692	-2,492	-1,854	-1,700																		
Retire TY GR and CR	0	0	0	0	0	0	0																		
Retire TY GR CR and BR1-2	-955	-878	-143	-122	-101	-80	-62																		
Retire TY GR CR BR1-2 and MC1-2	0	0	0	0	0	0	0																		
Retire TY and GR	0	0	0	0	0	0	0																		
Retire TY GR and CR4	-1,748	-1,719	-1,692	-1,708	-1,727	-1,747	-1,771																		
Retire TY GR and CR5	-1,895	-1,864	-1,834	-1,851	-1,872	-1,894	-1,919																		
Retire TY GR and CR6	-2,777	-2,662	-2,620	-2,645	-2,674	-2,705	-2,742																		
Retire TY GR CR and MC4	0	0	0	0	0	0	0																		
Retire TY GR CR and TC1	-11,666	-11,343	-11,031	-10,731	-10,442	-10,162	-9,886																		
Retire TY GR CR and GH4	-19,535	-20,424	-21,364	-21,875	-2,513	-1,870	-1,715																		
Retire TY GR CR and MC3	0	0	0	0	0	0	0																		
Retire TY GR CR and GH2	-19,739	-20,637	-21,587	-22,103	-2,539	-1,889	-1,733																		

Discount Rate:

	2034	2035	2036	2037	2038	2039	2040
Retire TY GR CR and MC1-2	0	0	0	0	0	0	0
Water Capital							
No Retirements	11,399	10,985	10,571	10,157	9,743	9,329	6,496
Retire BR1-2	10,523	10,137	9,750	9,364	8,978	8,591	5,787
Retire TY	11,062	10,662	10,262	9,862	9,463	9,063	6,245
Retire TY and BR1-2	10,186	9,814	9,442	9,070	8,698	8,326	5,535
Retire TY and GR3	10,724	10,339	9,953	9,568	9,183	8,797	5,993
Retire TY GR3 and BR3	9,365	9,023	8,680	8,338	7,995	7,653	4,892
Retire TY GR3 and CR4	10,724	10,339	9,953	9,568	9,183	8,797	5,993
Retire TY GR3 CR4 and CR6	10,724	10,339	9,953	9,568	9,183	8,797	5,993
Retire TY GR3 CR4 CR6 and BR1-2	9,849	9,491	9,133	8,775	8,418	8,060	5,284
Retire TY GR3 and CR	10,724	10,339	9,953	9,568	9,183	8,797	5,993
Retire TY GR3 CR and GH3	9,840	9,482	9,124	8,765	8,407	8,049	5,272
Retire TY GR3 CR and GH1	9,850	9,491	9,132	8,774	8,415	8,056	5,279
Retire TY GR and CR	10,253	9,888	9,522	9,157	8,791	8,426	5,642
Retire TY GR CR and BR1-2	9,377	9,040	8,702	8,364	8,026	7,689	4,933
Retire TY GR CR BR1-2 and MC1-2	8,002	7,728	7,454	7,180	6,906	6,632	4,933
Retire TY and GR	10,253	9,888	9,522	9,157	8,791	8,426	5,642
Retire TY GR and CR4	10,253	9,888	9,522	9,157	8,791	8,426	5,642
Retire TY GR and CR5	10,253	9,888	9,522	9,157	8,791	8,426	5,642
Retire TY GR and CR6	10,253	9,888	9,522	9,157	8,791	8,426	5,642
Retire TY GR CR and MC4	9,166	8,852	8,537	8,222	7,907	7,592	5,642
Retire TY GR CR and TC1	9,787	9,434	9,082	8,729	8,376	8,023	5,252
Retire TY GR CR and GH4	9,371	9,033	8,694	8,356	8,017	7,679	4,922
Retire TY GR CR and MC3	9,362	9,038	8,714	8,390	8,066	7,742	5,642
Retire TY GR CR and GH2	9,362	9,024	8,686	8,347	8,009	7,671	4,915
Retire TY GR CR and MC1-2	8,877	8,576	8,274	7,973	7,671	7,370	5,642
Water Capital Delta							
No Retirements							
Retire BR1-2	-876	-848	-820	-793	-765	-737	-710
Retire TY	-337	-323	-309	-294	-280	-266	-251
Retire TY and BR1-2	-876	-848	-820	-793	-765	-737	-710
Retire TY and GR3	-337	-323	-309	-294	-280	-266	-251
Retire TY GR3 and BR3	-1,359	-1,316	-1,273	-1,230	-1,187	-1,144	-1,101
Retire TY GR3 and CR4	0	0	0	0	0	0	0
Retire TY GR3 CR4 and CR6	0	0	0	0	0	0	0
Retire TY GR3 CR4 CR6 and BR1-2	-876	-848	-820	-793	-765	-737	-710
Retire TY GR3 and CR	0	0	0	0	0	0	0
Retire TY GR3 CR and GH3	-884	-857	-830	-803	-776	-748	-721
Retire TY GR3 CR and GH1	-875	-848	-821	-794	-767	-741	-714
Retire TY GR and CR	-471	-451	-431	-411	-391	-371	-351
Retire TY GR CR and BR1-2	-876	-848	-820	-793	-765	-737	-710
Retire TY GR CR BR1-2 and MC1-2	-1,376	-1,312	-1,248	-1,184	-1,120	-1,056	0
Retire TY and GR	-471	-451	-431	-411	-391	-371	-351
Retire TY GR and CR4	0	0	0	0	0	0	0
Retire TY GR and CR5	0	0	0	0	0	0	0
Retire TY GR and CR6	0	0	0	0	0	0	0
Retire TY GR CR and MC4	-1,086	-1,036	-986	-935	-885	-834	0
Retire TY GR CR and TC1	-466	-453	-441	-428	-415	-403	-390
Retire TY GR CR and GH4	-882	-855	-828	-801	-774	-747	-720
Retire TY GR CR and MC3	-891	-849	-808	-766	-725	-684	0
Retire TY GR CR and GH2	-891	-864	-837	-809	-782	-755	-727
Retire TY GR CR and MC1-2	-1,376	-1,312	-1,248	-1,184	-1,120	-1,056	0
Total Capital							
No Retirements	759,007	783,764	771,213	759,896	683,183	669,888	647,441
Retire BR1-2	787,415	772,693	747,699	728,795	643,252	638,660	623,846
Retire TY	745,058	781,821	794,678	786,307	688,189	661,369	634,094
Retire TY and BR1-2	767,458	804,057	795,518	775,587	679,438	653,285	625,363
Retire TY and GR3	798,312	783,599	758,948	740,217	653,890	648,528	634,363
Retire TY GR3 and BR3	789,687	774,985	751,623	733,035	646,846	641,619	626,165
Retire TY GR3 and CR4	822,861	823,180	795,190	774,138	677,797	651,409	623,024
Retire TY GR3 CR4 and CR6	797,152	782,437	757,969	739,270	652,964	647,617	632,039
Retire TY GR3 CR4 CR6 and BR1-2	733,321	729,845	726,338	728,689	657,006	643,795	621,209
Retire TY GR3 and CR	767,208	803,333	815,575	806,558	707,778	678,924	649,628
Retire TY GR3 CR and GH3	786,775	769,718	742,847	722,121	653,690	647,450	630,478
Retire TY GR3 CR and GH1	752,351	773,666	757,406	735,460	666,893	660,866	647,968
Retire TY GR and CR	743,251	739,563	735,185	737,331	667,965	654,404	631,467
Retire TY GR CR and BR1-2	760,553	747,270	732,752	733,664	661,439	658,865	642,740
Retire TY GR CR BR1-2 and MC1-2	734,471	722,420	718,324	724,195	651,546	656,364	645,859
Retire TY and GR	777,885	814,783	805,955	785,258	690,950	664,026	635,337
Retire TY GR and CR4	806,875	807,555	781,120	761,868	668,855	643,129	615,404

Total Capital	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058
No Retirements	52,894	45,452	42,906	37,390	35,540	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire BR1-2	43,417	36,396	34,272	29,178	27,749	25,245	24,162	23,079	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY	51,130	43,773	41,312	35,882	34,117	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY and BR1-2	41,652	34,717	32,678	27,670	26,327	25,245	24,162	23,079	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY and GR3	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 and BR3	44,080	37,012	34,840	29,698	28,222	28,342	24,730	20,598	18,334	17,123	16,121	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 and CR4	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 CR4 and CR6	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 CR4 CR6 and BR1-2	39,888	33,038	31,085	26,162	24,905	25,245	24,162	23,079	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 and CR	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 CR and GH3	40,181	33,234	31,183	26,162	24,807	25,048	21,556	17,546	15,403	14,313	11,613	5,135	4,897	4,659	4,421	4,000	3,489	253
Retire TY GR3 CR and GH1	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR and CR	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and BR1-2	39,888	33,038	31,085	26,162	24,905	25,245	24,162	23,079	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR BR1-2 and MC1-2	39,888	33,038	31,085	26,162	24,905	25,245	24,162	23,079	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY and GR	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR and CR4	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253

Discount Rate:

	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058
Retire TY GR and CR5	800,486	802,518	777,405	758,189	665,213	639,522	611,833	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR and CR6	747,674	743,394	739,341	733,380	653,697	647,511	632,621	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and MC4	782,297	817,586	806,999	785,769	690,943	663,402	635,894	48,351	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and TC1	768,191	791,187	776,651	755,996	671,532	665,500	649,535	44,290	37,293	35,533	34,114	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and GH4	814,261	812,082	782,653	760,710	684,862	657,568	627,766	40,925	33,972	31,916	26,890	25,529	25,766	22,269	18,253	16,105	15,341	12,691	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and MC3	765,100	787,738	772,857	752,032	667,402	661,608	646,508	44,459	41,752	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and GH2	815,149	812,873	783,347	761,312	685,579	658,203	628,316	41,615	34,581	32,444	27,338	25,896	26,052	22,474	18,378	16,149	14,973	12,154	5,232	4,152	214	0	0	0	0
Retire TY GR CR and MC1-2	736,257	731,931	738,267	745,665	676,168	668,911	649,129	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253

Total Capital Delta

	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058
No Retirements																									
Retire BR1-2	28,409	-11,071	-23,513	-31,101	-39,931	-31,228	-23,595	-9,477	-9,055	-8,634	-8,212	-7,790	-7,369	-4,636	-1,384	0	0	0	0	0	0	0	0	0	0
Retire TY	-13,949	-1,943	23,465	26,411	5,006	-8,519	-13,347	-1,765	-1,679	-1,594	-1,508	-1,422	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and BR1-2	22,400	22,237	840	-10,720	-8,751	-8,084	-8,731	-9,477	-9,055	-8,634	-8,212	-7,790	-7,369	-4,636	-1,384	0	0	0	0	0	0	0	0	0	0
Retire TY and GR3	53,254	1,778	-35,730	-46,090	-34,299	-12,841	269	-1,765	-1,679	-1,594	-1,508	-1,422	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and BR3	-8,625	-8,614	-7,325	-7,183	-7,045	-6,910	-8,198	-5,284	-5,082	-4,879	-4,676	-4,474	-4,271	-4,068	-3,865	-3,663	-3,460	-1,405	0	0	0	0	0	0	0
Retire TY GR3 and CR4	24,549	39,581	36,242	33,921	23,907	2,881	-11,340	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 and CR6	-25,709	-40,742	-37,221	-34,868	-24,833	-3,792	9,015	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 CR6 and BR1-2	-63,832	-52,592	-31,630	-10,581	4,043	-3,822	-10,830	-9,477	-9,055	-8,634	-8,212	-7,790	-7,369	-4,636	-1,384	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR	-29,945	20,895	57,606	67,288	54,815	31,307	17,589	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH3	19,567	-33,614	-72,727	-84,438	-54,089	-31,473	-19,150	-9,183	-8,860	-8,536	-8,212	-7,889	-7,565	-7,241	-6,918	-6,594	-6,270	-5,913	-5,232	-4,152	-214	0	0	0	0
Retire TY GR3 CR and GH1	-14,857	-29,667	-58,169	-71,099	-40,886	-18,058	-1,660	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR	-23,956	-63,770	-80,390	-69,228	-39,814	-24,520	-18,161	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and BR1-2	17,302	7,707	-2,432	-3,666	-6,526	4,462	11,272	-9,477	-9,055	-8,634	-8,212	-7,790	-7,369	-4,636	-1,384	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR BR1-2 and MC1-2	-26,083	-24,850	-14,428	-9,469	-9,893	-2,502	3,119	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and GR	-20,427	31,184	47,007	45,041	37,060	15,498	974	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR4	28,990	-7,228	-24,834	-23,390	-22,095	-20,897	-19,933	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR5	22,601	-12,265	-28,550	-27,069	-25,738	-24,504	-23,505	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR6	-30,211	-71,390	-66,613	-51,878	-37,253	-16,515	-2,717	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC4	39,046	78,024	71,814	48,439	22,978	8,998	4,427	-1,014	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and TC1	24,940	51,624	41,466	18,666	3,568	11,096	18,067	-5,075	-4,801	-4,186	-261	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH4	71,010	72,519	47,468	23,380	16,898	3,164	-3,701	-8,440	-8,121	-7,803	-7,484	-7,166	-6,847	-6,529	-6,210	-5,892	-5,243	-4,835	0	0	0	0	0	0	0
Retire TY GR CR and MC3	21,849	48,176	37,673	14,702	-562	7,204	15,041	-4,906	-341	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH2	71,898	73,310	48,162	23,981	17,614	3,799	-3,152	-7,750	-7,512	-7,274	-7,037	-6,799	-6,561	-6,323	-6,086	-5,848	-5,610	-5,372	-5,135	-4,897	-4,659	-4,421	-4,000	-3,489	-253
Retire TY GR CR and MC1-2	-6,994	-7,632	3,083	8,334	8,203	14,507	17,661	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Retirement O&M Cost

No Retirements							
Retire BR1-2	0	0	0	0	0	0	0
Retire TY	0	0	0	0	0	0	0
Retire TY and BR1-2	0	0	0	0	0	0	0
Retire TY and GR3	0	0	0	0	0	0	0
Retire TY GR3 and BR3	0	0	0	0	0	0	0
Retire TY GR3 and CR4	0	0	0	0	0	0	0
Retire TY GR3 CR4 and CR6	0	0	0	0	0	0	0
Retire TY GR3 CR4 CR6 and BR1-2	0	0	0	0	0	0	0
Retire TY GR3 and CR	0	0	0	0	0	0	0
Retire TY GR3 CR and GH3	0	0	0	0	0	0	0
Retire TY GR3 CR and GH1	0	0	0	0	0	0	0
Retire TY GR and CR	0	0	0	0	0	0	0
Retire TY GR CR and BR1-2	0	0	0	0	0	0	0
Retire TY GR CR BR1-2 and MC1-2	0	0	0	0	0	0	0
Retire TY and GR	0	0	0	0	0	0	0
Retire TY GR and CR4	0	0	0	0	0	0	0
Retire TY GR and CR5	0	0	0	0	0	0	0
Retire TY GR and CR6	0	0	0	0	0	0	0
Retire TY GR CR and MC4	0	0	0	0	0	0	0
Retire TY GR CR and TC1	0	0	0	0	0	0	0
Retire TY GR CR and GH4	0	0	0	0	0	0	0
Retire TY GR CR and MC3	0	0	0	0	0	0	0
Retire TY GR CR and GH2	0	0	0	0	0	0	0
Retire TY GR CR and MC1-2	0	0	0	0	0	0	0

Retirement O&M Cost Delta

No Retirements							
Retire BR1-2	0	0	0	0	0	0	0
Retire TY	0	0	0	0	0	0	0
Retire TY and BR1-2	0	0	0	0	0	0	0
Retire TY and GR3	0	0	0	0	0	0	0
Retire TY GR3 and BR3	0	0	0	0	0	0	0
Retire TY GR3 and CR4	0	0	0	0	0	0	0
Retire TY GR3 CR4 and CR6	0	0	0	0	0	0	0
Retire TY GR3 CR4 CR6 and BR1-2	0	0	0	0	0	0	0
Retire TY GR3 and CR	0	0	0	0	0	0	0

Discount Rate:

	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058
Retire TY GR3 CR and GH3	0	0	0	0	0	0	0																		
Retire TY GR3 CR and GH1	0	0	0	0	0	0	0																		
Retire TY GR and CR	0	0	0	0	0	0	0																		
Retire TY GR CR and BR1-2	0	0	0	0	0	0	0																		
Retire TY GR CR BR1-2 and MC1-2	0	0	0	0	0	0	0																		
Retire TY and GR	0	0	0	0	0	0	0																		
Retire TY GR and CR4	0	0	0	0	0	0	0																		
Retire TY GR and CR5	0	0	0	0	0	0	0																		
Retire TY GR and CR6	0	0	0	0	0	0	0																		
Retire TY GR CR and MC4	0	0	0	0	0	0	0																		
Retire TY GR CR and TC1	0	0	0	0	0	0	0																		
Retire TY GR CR and GH4	0	0	0	0	0	0	0																		
Retire TY GR CR and MC3	0	0	0	0	0	0	0																		
Retire TY GR CR and GH2	0	0	0	0	0	0	0																		
Retire TY GR CR and MC1-2	0	0	0	0	0	0	0																		
Existing Unit Fixed O&M																									
No Retirements	318,658	325,031	331,532	338,163	344,926	351,824	358,861																		
Retire BR1-2	301,649	307,682	313,836	320,113	326,515	333,045	339,706																		
Retire TY	318,024	324,385	330,872	337,490	344,240	351,124	358,147																		
Retire TY and BR1-2	301,015	307,035	313,176	319,440	325,829	332,345	338,992																		
Retire TY and GR3	311,416	317,645	323,998	330,478	337,087	343,829	350,705																		
Retire TY GR3 and BR3	288,627	294,604	300,496	306,506	312,636	318,889	325,267																		
Retire TY GR3 and CR4	293,185	299,049	305,030	311,130	317,353	323,700	330,174																		
Retire TY GR3 CR4 and CR6	277,766	283,322	288,988	294,768	300,663	306,677	312,810																		
Retire TY GR3 CR4 CR6 and BR1-2	260,757	265,972	271,292	276,718	282,252	287,897	293,655																		
Retire TY GR3 and CR	258,380	263,547	268,818	274,194	279,678	285,272	290,977																		
Retire TY GR3 CR and GH3	239,472	244,261	249,146	254,129	259,212	264,396	269,684																		
Retire TY GR3 CR and GH1	231,150	235,773	240,488	245,298	250,204	255,208	260,312																		
Retire TY GR and CR	245,295	250,201	255,205	260,309	265,515	270,826	276,242																		
Retire TY GR CR and BR1-2	228,286	232,852	237,509	242,259	247,104	252,046	257,087																		
Retire TY GR CR BR1-2 and MC1-2	186,045	189,765	193,561	197,432	201,381	205,408	209,516																		
Retire TY and GR	298,332	304,299	310,385	316,592	322,924	329,383	335,970																		
Retire TY GR and CR4	280,100	285,702	291,416	297,245	303,190	309,253	315,439																		
Retire TY GR and CR5	278,945	284,524	290,214	296,019	301,939	307,978	314,137																		
Retire TY GR and CR6	282,913	288,572	294,343	300,230	306,235	312,359	318,607																		
Retire TY GR CR and MC4	219,158	223,541	228,012	232,572	237,223	241,968	246,807																		
Retire TY GR CR and TC1	218,919	223,297	227,763	232,318	236,964	241,704	246,538																		
Retire TY GR CR and GH4	226,948	231,487	236,116	240,839	245,655	250,569	255,580																		
Retire TY GR CR and MC3	219,193	223,577	228,049	232,610	237,262	242,007	246,847																		
Retire TY GR CR and GH2	224,941	229,439	234,028	238,709	243,483	248,353	253,320																		
Retire TY GR CR and MC1-2	203,054	207,115	211,257	215,482	219,792	224,188	228,671																		
Existing Unit Fixed O&M Delta																									
No Retirements																									
Retire BR1-2	-17,009	-17,349	-17,696	-18,050	-18,411	-18,779	-19,155																		
Retire TY	-634	-647	-660	-673	-686	-700	-714																		
Retire TY and BR1-2	-17,009	-17,349	-17,696	-18,050	-18,411	-18,779	-19,155																		
Retire TY and GR3	-6,608	-6,740	-6,875	-7,012	-7,153	-7,296	-7,442																		
Retire TY GR3 and BR3	-22,589	-23,041	-23,502	-23,972	-24,451	-24,940	-25,439																		
Retire TY GR3 and CR4	-18,232	-18,596	-18,968	-19,347	-19,734	-20,129	-20,532																		
Retire TY GR3 CR4 and CR6	-15,418	-15,727	-16,041	-16,362	-16,689	-17,023	-17,364																		
Retire TY GR3 CR4 CR6 and BR1-2	-17,009	-17,349	-17,696	-18,050	-18,411	-18,779	-19,155																		
Retire TY GR3 and CR	-19,387	-19,775	-20,170	-20,573	-20,985	-21,405	-21,833																		
Retire TY GR3 CR and GH3	-18,908	-19,286	-19,672	-20,065	-20,466	-20,876	-21,293																		
Retire TY GR3 CR and GH1	-27,230	-27,774	-28,330	-28,897	-29,474	-30,064	-30,665																		
Retire TY GR and CR	-13,084	-13,346	-13,613	-13,885	-14,163	-14,446	-14,735																		
Retire TY GR CR and BR1-2	-17,009	-17,349	-17,696	-18,050	-18,411	-18,779	-19,155																		
Retire TY GR CR BR1-2 and MC1-2	-42,242	-43,086	-43,948	-44,827	-45,724	-46,638	-47,571																		
Retire TY and GR	-13,084	-13,346	-13,613	-13,885	-14,163	-14,446	-14,735																		
Retire TY GR and CR4	-18,232	-18,596	-18,968	-19,347	-19,734	-20,129	-20,532																		
Retire TY GR and CR5	-19,387	-19,775	-20,170	-20,573	-20,985	-21,405	-21,833																		
Retire TY GR and CR6	-15,418	-15,727	-16,041	-16,362	-16,689	-17,023	-17,364																		
Retire TY GR CR and MC4	-26,138	-26,660	-27,194	-27,737	-28,292	-28,858	-29,435																		
Retire TY GR CR and TC1	-26,377	-26,904	-27,442	-27,991	-28,551	-29,122	-29,704																		
Retire TY GR CR and GH4	-18,347	-18,714	-19,089	-19,470	-19,860	-20,257	-20,662																		
Retire TY GR CR and MC3	-26,102	-26,624	-27,156	-27,699	-28,253	-28,818	-29,395																		
Retire TY GR CR and GH2	-20,355	-20,762	-21,177	-21,600	-22,032	-22,473	-22,923																		
Retire TY GR CR and MC1-2	-42,242	-43,086	-43,948	-44,827	-45,724	-46,638	-47,571																		
New Controls Fixed O&M																									
No Retirements	53,296	54,361	55,449	56,558	57,689	58,843	60,019																		
Retire BR1-2	50,944	51,963	53,002	54,063	55,144	56,247	57,372																		
Retire TY	47,726	48,680	49,654	50,647	51,660	52,693	53,747																		

Discount Rate:

	2034	2035	2036	2037	2038	2039	2040
Retire TY and BR1-2	45,374	46,282	47,207	48,152	49,115	50,097	51,099
Retire TY and GR3	42,156	42,999	43,859	44,736	45,631	46,543	47,474
Retire TY GR3 and BR3	40,600	41,412	42,241	43,085	43,947	44,826	45,723
Retire TY GR3 and CR4	36,679	37,412	38,161	38,924	39,702	40,496	41,306
Retire TY GR3 CR4 and CR6	29,581	30,172	30,776	31,391	32,019	32,660	33,313
Retire TY GR3 CR4 CR6 and BR1-2	27,230	27,774	28,330	28,896	29,474	30,064	30,665
Retire TY GR3 and CR	23,802	24,278	24,763	25,259	25,764	26,279	26,805
Retire TY GR3 CR and GH3	21,901	22,339	22,786	23,241	23,706	24,180	24,664
Retire TY GR3 CR and GH1	21,880	22,318	22,764	23,219	23,684	24,158	24,641
Retire TY GR and CR	16,630	16,962	17,301	17,648	18,000	18,360	18,728
Retire TY GR CR and BR1-2	14,278	14,564	14,855	15,152	15,455	15,764	16,080
Retire TY GR CR BR1-2 and MC1-2	9,751	9,946	10,145	10,348	10,555	10,766	10,982
Retire TY and GR	34,984	35,683	36,397	37,125	37,867	38,625	39,397
Retire TY GR and CR4	29,507	30,097	30,699	31,313	31,939	32,578	33,229
Retire TY GR and CR5	29,204	29,788	30,384	30,992	31,612	32,244	32,889
Retire TY GR and CR6	27,885	28,443	29,012	29,592	30,184	30,788	31,404
Retire TY GR CR and MC4	14,365	14,653	14,946	15,244	15,549	15,860	16,178
Retire TY GR CR and TC1	15,191	15,495	15,805	16,121	16,443	16,772	17,108
Retire TY GR CR and GH4	14,789	15,084	15,386	15,694	16,008	16,328	16,654
Retire TY GR CR and MC3	14,691	14,984	15,284	15,590	15,902	16,220	16,544
Retire TY GR CR and GH2	14,169	14,452	14,742	15,036	15,337	15,644	15,957
Retire TY GR CR and MC1-2	12,103	12,345	12,592	12,843	13,100	13,362	13,630
New Controls Fixed O&M Delta							
No Retirements							
Retire BR1-2	-2,351	-2,398	-2,446	-2,495	-2,545	-2,596	-2,648
Retire TY	-5,570	-5,681	-5,795	-5,911	-6,029	-6,150	-6,273
Retire TY and BR1-2	-2,351	-2,398	-2,446	-2,495	-2,545	-2,596	-2,648
Retire TY and GR3	-5,570	-5,681	-5,795	-5,911	-6,029	-6,150	-6,273
Retire TY GR3 and BR3	-1,555	-1,586	-1,618	-1,650	-1,683	-1,717	-1,751
Retire TY GR3 and CR4	-5,477	-5,586	-5,698	-5,812	-5,928	-6,047	-6,168
Retire TY GR3 CR4 and CR6	-7,098	-7,240	-7,385	-7,532	-7,683	-7,837	-7,994
Retire TY GR3 CR4 CR6 and BR1-2	-2,351	-2,398	-2,446	-2,495	-2,545	-2,596	-2,648
Retire TY GR3 and CR	-5,779	-5,895	-6,013	-6,133	-6,255	-6,381	-6,508
Retire TY GR3 CR and GH3	-1,901	-1,939	-1,978	-2,017	-2,058	-2,099	-2,141
Retire TY GR3 CR and GH1	-1,921	-1,960	-1,999	-2,039	-2,080	-2,121	-2,164
Retire TY GR and CR	-7,172	-7,315	-7,462	-7,611	-7,763	-7,918	-8,077
Retire TY GR CR and BR1-2	-2,351	-2,398	-2,446	-2,495	-2,545	-2,596	-2,648
Retire TY GR CR BR1-2 and MC1-2	-4,527	-4,618	-4,710	-4,804	-4,900	-4,998	-5,098
Retire TY and GR	-7,172	-7,315	-7,462	-7,611	-7,763	-7,918	-8,077
Retire TY GR and CR4	-5,477	-5,586	-5,698	-5,812	-5,928	-6,047	-6,168
Retire TY GR and CR5	-5,779	-5,895	-6,013	-6,133	-6,255	-6,381	-6,508
Retire TY GR and CR6	-7,098	-7,240	-7,385	-7,532	-7,683	-7,837	-7,994
Retire TY GR CR and MC4	-2,264	-2,310	-2,356	-2,403	-2,451	-2,500	-2,550
Retire TY GR CR and TC1	-1,439	-1,467	-1,497	-1,527	-1,557	-1,588	-1,620
Retire TY GR CR and GH4	-1,841	-1,878	-1,915	-1,954	-1,993	-2,033	-2,073
Retire TY GR CR and MC3	-1,939	-1,978	-2,017	-2,058	-2,099	-2,141	-2,184
Retire TY GR CR and GH2	-2,461	-2,510	-2,560	-2,611	-2,663	-2,717	-2,771
Retire TY GR CR and MC1-2	-4,527	-4,618	-4,710	-4,804	-4,900	-4,998	-5,098
Total Revenue Requirements							
No Retirements	3,589,844	3,666,273	3,703,679	3,761,291	3,823,836	3,814,175	3,932,779
Retire BR1-2	3,614,252	3,691,347	3,730,308	3,778,855	3,839,560	3,859,372	3,969,145
Retire TY	3,548,538	3,683,443	3,721,962	3,772,108	3,804,142	3,801,261	3,915,650
Retire TY and BR1-2	3,659,656	3,731,263	3,766,934	3,809,435	3,850,258	3,846,148	3,961,037
Retire TY and GR3	3,570,841	3,644,617	3,679,430	3,727,476	3,777,515	3,796,277	3,907,892
Retire TY GR3 and BR3	3,651,003	3,730,661	3,769,082	3,824,484	3,878,391	3,902,570	3,991,589
Retire TY GR3 and CR4	3,629,889	3,708,731	3,734,646	3,780,069	3,815,429	3,807,285	3,930,553
Retire TY GR3 CR4 and CR6	3,649,791	3,728,354	3,770,023	3,816,874	3,856,685	3,892,224	4,003,088
Retire TY GR3 CR4 CR6 and BR1-2	3,649,683	3,746,282	3,825,319	3,871,298	3,933,832	3,932,482	4,058,677
Retire TY GR3 and CR	3,676,519	3,814,243	3,847,400	3,902,649	3,920,448	3,931,460	4,045,348
Retire TY GR3 CR and GH3	3,809,369	3,887,763	3,929,495	3,974,733	4,017,743	4,078,867	4,181,849
Retire TY GR3 CR and GH1	3,820,013	3,872,283	3,936,115	3,981,450	4,047,560	4,078,775	4,194,685
Retire TY GR and CR	3,630,247	3,726,854	3,797,020	3,853,786	3,907,145	3,911,645	4,032,447
Retire TY GR CR and BR1-2	3,696,256	3,783,685	3,840,647	3,918,710	3,952,334	3,987,353	4,092,985
Retire TY GR CR BR1-2 and MC1-2	3,873,051	3,963,154	4,036,057	4,130,990	4,164,989	4,206,759	4,320,167
Retire TY and GR	3,597,851	3,681,356	3,712,410	3,754,572	3,788,089	3,783,940	3,894,552
Retire TY GR and CR4	3,603,106	3,686,373	3,713,945	3,761,644	3,799,507	3,792,734	3,916,510
Retire TY GR and CR5	3,603,970	3,682,838	3,711,052	3,763,883	3,800,243	3,801,558	3,914,983
Retire TY GR and CR6	3,572,256	3,661,962	3,735,802	3,775,927	3,820,902	3,860,752	3,963,636
Retire TY GR CR and MC4	3,877,599	3,956,157	3,979,315	4,037,629	4,030,517	4,072,360	4,178,133
Retire TY GR CR and TC1	3,835,375	3,896,834	3,947,527	3,987,852	4,042,860	4,069,729	4,189,337
Retire TY GR CR and GH4	3,861,468	3,945,790	3,954,963	4,026,707	4,064,015	4,082,893	4,193,762
Retire TY GR CR and MC3	3,817,250	3,867,042	3,929,428	3,975,008	4,024,159	4,054,231	4,170,714

	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058
Total Revenue Requirements																		
No Retirements	52,894	45,452	42,906	37,390	35,540	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire BR1-2	43,417	36,396	34,272	29,178	27,749	25,245	24,162	23,079	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY	51,130	43,773	41,312	35,882	34,117	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY and BR1-2	41,652	34,717	32,678	27,670	26,327	25,245	24,162	23,079	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY and GR3	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 and BR3	44,080	37,012	34,840	29,698	28,222	28,342	24,730	20,598	18,334	17,123	16,121	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 and CR4	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 CR4 and CR6	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 CR4 CR6 and BR1-2	39,888	33,038	31,085	26,162	24,905	25,245	24,162	23,079	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 and CR	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR3 CR and GH3	40,181	33,234	31,183	26,162	24,807	25,048	21,556	17,546	15,403	14,313	11,613	5,135	4,897	4,659	4,421	4,000	3,489	253
Retire TY GR3 CR and GH1	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR and CR	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and BR1-2	39,888	33,038	31,085	26,162	24,905	25,245	24,162	23,079	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR BR1-2 and MC1-2	39,888	33,038	31,085	26,162	24,905	25,245	24,162	23,079	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY and GR	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR and CR4	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR and CR5	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR and CR6	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and MC4	48,351	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and TC1	44,290	37,293	35,533	34,114	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and GH4	40,925	33,972	31,916	26,890	25,529	25,766	22,269	18,253	16,105	15,341	12,691	10,366	9,049	4,873	4,421	4,000	3,489	253
Retire TY GR CR and MC3	44,459	41,752	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253

Discount Rate:

	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058
Retire TY GR CR and GH2	3,862,531	3,949,795	3,982,537	4,021,330	4,072,276	4,077,882	4,173,352	41,615	34,581	32,444	27,338	25,896	26,052	22,474	18,378	16,149	14,973	12,154	5,232	4,152	214	0	0	0	0
Retire TY GR CR and MC1-2	3,808,219	3,905,491	3,986,280	4,056,086	4,112,637	4,120,655	4,249,914	49,365	42,094	39,719	34,374	32,695	32,613	28,798	24,464	21,997	20,583	17,526	10,366	9,049	4,873	4,421	4,000	3,489	253
Total Revenue Requirements Delta																									
No Retirements																									
Retire BR1-2	24,408	25,074	26,629	17,564	15,724	45,197	36,366	-9,477	-9,055	-8,634	-8,212	-7,790	-7,369	-4,636	-1,384	0	0	0	0	0	0	0	0	0	0
Retire TY	-41,306	17,171	18,283	10,817	-19,694	-12,914	-17,129	-1,765	-1,679	-1,594	-1,508	-1,422	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and BR1-2	111,118	47,820	44,972	37,327	46,116	44,888	45,387	-9,477	-9,055	-8,634	-8,212	-7,790	-7,369	-4,636	-1,384	0	0	0	0	0	0	0	0	0	0
Retire TY and GR3	22,304	-38,826	-42,531	-44,632	-26,626	-4,984	-7,758	-1,765	-1,679	-1,594	-1,508	-1,422	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and BR3	80,161	86,044	89,651	97,008	100,875	106,293	83,697	-5,284	-5,082	-4,879	-4,676	-4,474	-4,271	-4,068	-3,865	-3,663	-3,460	-1,405	0	0	0	0	0	0	0
Retire TY GR3 and CR4	59,048	64,113	55,216	52,593	37,913	11,008	22,661	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 and CR6	19,902	19,623	35,377	36,805	41,256	84,939	72,535	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 CR6 and BR1-2	-109	17,928	55,296	54,424	77,147	40,258	55,589	-9,477	-9,055	-8,634	-8,212	-7,790	-7,369	-4,636	-1,384	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR	26,727	85,889	77,377	85,775	63,763	39,236	42,260	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH3	132,851	73,520	82,095	72,084	97,295	147,407	136,501	-9,183	-8,860	-8,536	-8,212	-7,889	-7,565	-7,241	-6,918	-6,594	-6,270	-5,913	-5,232	-4,152	-214	0	0	0	0
Retire TY GR3 CR and GH1	143,494	58,040	88,715	78,801	127,112	147,315	149,337	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR	-46,271	-87,389	-50,380	-48,863	-13,303	-19,815	-12,901	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and BR1-2	66,008	56,831	43,627	64,924	45,189	75,708	60,539	-9,477	-9,055	-8,634	-8,212	-7,790	-7,369	-4,636	-1,384	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR BR1-2 and MC1-2	176,795	179,468	195,410	212,280	212,654	219,407	227,182	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and GR	27,010	36,739	32,980	27,096	10,573	-12,337	-13,340	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR4	5,255	5,016	1,535	7,072	11,418	8,794	21,958	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR5	6,119	1,481	-1,358	9,311	12,154	17,618	20,431	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR6	-25,595	-19,394	23,392	21,354	32,813	76,812	69,084	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC4	247,352	229,303	182,295	183,843	123,372	160,715	145,687	-1,014	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and TC1	205,128	169,980	150,508	134,066	135,715	158,084	156,891	-5,075	-4,801	-4,186	-261	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH4	231,221	218,936	157,943	172,920	156,869	171,248	161,315	-8,440	-8,121	-7,803	-7,484	-7,166	-6,847	-6,529	-6,210	-5,892	-5,243	-4,835	0	0	0	0	0	0	0
Retire TY GR CR and MC3	187,003	140,188	132,408	121,221	117,014	142,586	138,267	-4,906	-341	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH2	232,284	222,940	185,518	167,543	165,130	166,237	140,906	-7,750	-7,512	-7,274	-7,037	-6,799	-6,561	-6,323	-6,086	-5,848	-5,610	-5,372	-5,135	-4,897	-4,659	-4,421	-4,000	-3,489	-253
Retire TY GR CR and MC1-2	177,972	178,636	189,261	202,300	205,491	209,010	217,468	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Revenue Requirements Cumulative D																									
No Retirements																									
Retire BR1-2	645,699	670,773	697,402	714,966	730,691	775,887	812,253																		
Retire TY	-14,696	2,475	20,757	31,574	11,880	-1,034	-18,163																		
Retire TY and BR1-2	474,625	522,445	567,417	604,744	650,861	695,748	741,135																		
Retire TY and GR3	10,804	-28,022	-70,554	-115,186	-141,812	-146,796	-154,554																		
Retire TY GR3 and BR3	1,283,264	1,369,308	1,458,959	1,555,967	1,656,842	1,763,134	1,846,831																		
Retire TY GR3 and CR4	-72,737	-8,624	46,592	99,185	137,099	148,106	170,767																		
Retire TY GR3 CR4 and CR6	177,931	197,554	232,931	269,736	310,992	395,931	468,466																		
Retire TY GR3 CR4 CR6 and BR1-2	484,834	502,762	558,058	612,482	689,630	729,887	785,476																		
Retire TY GR3 and CR	-114,445	-28,556	48,821	134,596	198,359	237,595	279,856																		
Retire TY GR3 CR and GH3	2,063,085	2,136,605	2,218,700	2,290,784	2,388,079	2,535,486	2,671,987																		
Retire TY GR3 CR and GH1	1,761,886	1,819,926	1,908,641	1,987,442	2,114,554	2,261,868	2,411,205																		
Retire TY GR and CR	-101,185	-188,574	-238,954	-287,817	-301,119	-320,935	-333,836																		
Retire TY GR CR and BR1-2	758,041	814,872	858,499	923,423	968,613	1,044,320	1,104,859																		
Retire TY GR CR BR1-2 and MC1-2	2,562,521	2,741,990	2,937,399	3,149,679	3,362,334	3,581,740	3,808,922																		
Retire TY and GR	-232,090	-195,351	-162,371	-135,275	-124,701	-137,039	-150,379																		
Retire TY GR and CR4	-25,004	-19,988	-18,453	-11,381	38	8,831	30,789																		
Retire TY GR and CR5	-19,029	-17,548	-18,906	-9,595	2,559	20,177	40,609																		
Retire TY GR and CR6	209,309	189,915	213,307	234,661	267,474	344,286	413,370																		
Retire TY GR CR and MC4	1,885,834	2,115,137	2,297,432	2,481,274	2,604,646	2,765,361	2,911,048																		
Retire TY GR CR and TC1	2,062,229	2,232,209	2,382,716	2,516,782	2,652,497	2,810,581	2,967,471																		
Retire TY GR CR and GH4	2,468,062	2,686,997	2,844,940	3,017,861	3,174,730	3,345,978	3,507,293																		
Retire TY GR CR and MC3	1,620,958	1,761,146	1,893,555	2,014,776	2,131,789	2,274,376	2,412,643																		
Retire TY GR CR and GH2	2,447,940	2,670,881	2,856,398	3,023,942	3,189,072	3,355,310	3,496,215																		
Retire TY GR CR and MC1-2	2,302,962	2,481,599	2,670,859	2,873,159	3,078,651	3,287,660	3,505,128																		

Discount Rate:

	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078
New Unit Capital and Production Cost																				
No Retirements																				
Retire BR1-2																				
Retire TY																				
Retire TY and BR1-2																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and BR1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
Retire TY and GR																				
Retire TY GR and CR4																				
Retire TY GR and CR5																				
Retire TY GR and CR6																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
Production Cost																				
No Retirements																				
Retire BR1-2																				
Retire TY																				
Retire TY and BR1-2																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and BR1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
Retire TY and GR																				
Retire TY GR and CR4																				
Retire TY GR and CR5																				
Retire TY GR and CR6																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
Production Cost Delta																				
No Retirements																				
Retire BR1-2																				
Retire TY																				
Retire TY and BR1-2																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and BR1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
Retire TY and GR																				
Retire TY GR and CR4																				
Retire TY GR and CR5																				

Discount Rate:

	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078
Retire TY GR and CR6																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
New Unit Capital																				
No Retirements																				
Retire BR1-2																				
Retire TY																				
Retire TY and BR1-2																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and BR1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
Retire TY and GR																				
Retire TY GR and CR4																				
Retire TY GR and CR5																				
Retire TY GR and CR6																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
New Unit Capital Delta																				
No Retirements																				
Retire BR1-2																				
Retire TY																				
Retire TY and BR1-2																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and BR1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
Retire TY and GR																				
Retire TY GR and CR4																				
Retire TY GR and CR5																				
Retire TY GR and CR6																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
New Controls Capital																				
No Retirements	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire BR1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and BR1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and GR3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and BR3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 and CR6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 CR6 and BR1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Discount Rate:

	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078
Retire TY GR3 CR and GH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and BR1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR BR1-2 and MC1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and GR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and TC1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
New Controls Capital Delta																				
No Retirements																				
Retire BR1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and BR1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and GR3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and BR3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 and CR6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 CR6 and BR1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and BR1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR BR1-2 and MC1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and GR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and TC1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTP Capital																				
No Retirements																				
Retire BR1-2																				
Retire TY																				
Retire TY and BR1-2																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and BR1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
Retire TY and GR																				
Retire TY GR and CR4																				
Retire TY GR and CR5																				
Retire TY GR and CR6																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
MTP Capital Delta																				
No Retirements																				
Retire BR1-2																				
Retire TY																				
Retire TY and BR1-2																				

Discount Rate:

	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and BR1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
Retire TY and GR																				
Retire TY GR and CR4																				
Retire TY GR and CR5																				
Retire TY GR and CR6																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
Landfill Capital																				
No Retirements																				
Retire BR1-2																				
Retire TY																				
Retire TY and BR1-2																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and BR1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
Retire TY and GR																				
Retire TY GR and CR4																				
Retire TY GR and CR5																				
Retire TY GR and CR6																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
Landfill Capital Delta																				
No Retirements																				
Retire BR1-2																				
Retire TY																				
Retire TY and BR1-2																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and BR1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
Retire TY and GR																				
Retire TY GR and CR4																				
Retire TY GR and CR5																				
Retire TY GR and CR6																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				

Discount Rate:

Retire TY GR CR and MC1-2	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078
Water Capital																				
No Retirements																				
Retire BR1-2																				
Retire TY																				
Retire TY and BR1-2																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and BR1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
Retire TY and GR																				
Retire TY GR and CR4																				
Retire TY GR and CR5																				
Retire TY GR and CR6																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
Water Capital Delta																				
No Retirements																				
Retire BR1-2																				
Retire TY																				
Retire TY and BR1-2																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and BR1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
Retire TY and GR																				
Retire TY GR and CR4																				
Retire TY GR and CR5																				
Retire TY GR and CR6																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
Total Capital																				
No Retirements	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire BR1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and BR1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and GR3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and BR3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 and CR6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 CR6 and BR1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and BR1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR BR1-2 and MC1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and GR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Discount Rate:

	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078
Retire TY GR and CR5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and TC1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Capital Delta																				
No Retirements																				
Retire BR1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and BR1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and GR3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and BR3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 and CR6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 CR6 and BR1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and BR1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR BR1-2 and MC1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and GR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and TC1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Retirement O&M Cost

No Retirements
- Retire BR1-2
- Retire TY
- Retire TY and BR1-2
- Retire TY and GR3
- Retire TY GR3 and BR3
- Retire TY GR3 and CR4
- Retire TY GR3 CR4 and CR6
- Retire TY GR3 CR4 CR6 and BR1-2
- *Retire TY GR3 and CR*
- Retire TY GR3 CR and GH3
- Retire TY GR3 CR and GH1
- Retire TY GR and CR
- Retire TY GR CR and BR1-2
- Retire TY GR CR BR1-2 and MC1-2
- Retire TY and GR
- Retire TY GR and CR4
- Retire TY GR and CR5
- Retire TY GR and CR6
- Retire TY GR CR and MC4
- Retire TY GR CR and TC1
- *Retire TY GR CR and GH4*
- Retire TY GR CR and MC3
- Retire TY GR CR and GH2
- Retire TY GR CR and MC1-2

Retirement O&M Cost Delta

No Retirements
- Retire BR1-2
- Retire TY
- Retire TY and BR1-2
- Retire TY and GR3
- Retire TY GR3 and BR3
- *Retire TY GR3 and CR4*
- Retire TY GR3 CR4 and CR6
- Retire TY GR3 CR4 CR6 and BR1-2
- Retire TY GR3 and CR

Discount Rate:

	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and BR1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
Retire TY and GR																				
Retire TY GR and CR4																				
Retire TY GR and CR5																				
Retire TY GR and CR6																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
Existing Unit Fixed O&M																				
No Retirements																				
Retire BR1-2																				
Retire TY																				
Retire TY and BR1-2																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and BR1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
Retire TY and GR																				
Retire TY GR and CR4																				
Retire TY GR and CR5																				
Retire TY GR and CR6																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
Existing Unit Fixed O&M Delta																				
No Retirements																				
Retire BR1-2																				
Retire TY																				
Retire TY and BR1-2																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and BR1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
Retire TY and GR																				
Retire TY GR and CR4																				
Retire TY GR and CR5																				
Retire TY GR and CR6																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
New Controls Fixed O&M																				
No Retirements																				
Retire BR1-2																				
Retire TY																				

Discount Rate:

	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078
Retire TY and BR1-2																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and BR1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
Retire TY and GR																				
Retire TY GR and CR4																				
Retire TY GR and CR5																				
Retire TY GR and CR6																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
New Controls Fixed O&M Delta																				
No Retirements																				
Retire BR1-2																				
Retire TY																				
Retire TY and BR1-2																				
Retire TY and GR3																				
Retire TY GR3 and BR3																				
Retire TY GR3 and CR4																				
Retire TY GR3 CR4 and CR6																				
Retire TY GR3 CR4 CR6 and BR1-2																				
Retire TY GR3 and CR																				
Retire TY GR3 CR and GH3																				
Retire TY GR3 CR and GH1																				
Retire TY GR and CR																				
Retire TY GR CR and BR1-2																				
Retire TY GR CR BR1-2 and MC1-2																				
Retire TY and GR																				
Retire TY GR and CR4																				
Retire TY GR and CR5																				
Retire TY GR and CR6																				
Retire TY GR CR and MC4																				
Retire TY GR CR and TC1																				
Retire TY GR CR and GH4																				
Retire TY GR CR and MC3																				
Retire TY GR CR and GH2																				
Retire TY GR CR and MC1-2																				
Total Revenue Requirements																				
No Retirements	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire BR1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and BR1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and GR3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and BR3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 and CR6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 CR6 and BR1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and BR1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR BR1-2 and MC1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and GR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and TC1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Discount Rate:

	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078
Retire TY GR CR and GH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Revenue Requirements Delta																				
No Retirements																				
Retire BR1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and BR1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and GR3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and BR3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 and CR6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR4 CR6 and BR1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 and CR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR3 CR and GH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and BR1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR BR1-2 and MC1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY and GR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR and CR6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and TC1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and GH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Retire TY GR CR and MC1-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Total Revenue Requirements Cumulative D

No Retirements
Retire BR1-2
Retire TY
Retire TY and BR1-2
Retire TY and GR3
Retire TY GR3 and BR3
Retire TY GR3 and CR4
Retire TY GR3 CR4 and CR6
Retire TY GR3 CR4 CR6 and BR1-2
Retire TY GR3 and CR
Retire TY GR3 CR and GH3
Retire TY GR3 CR and GH1
Retire TY GR and CR
Retire TY GR CR and BR1-2
Retire TY GR CR BR1-2 and MC1-2
Retire TY and GR
Retire TY GR and CR4
Retire TY GR and CR5
Retire TY GR and CR6
Retire TY GR CR and MC4
Retire TY GR CR and TC1
Retire TY GR CR and GH4
Retire TY GR CR and MC3
Retire TY GR CR and GH2
Retire TY GR CR and MC1-2

Station	Unit		2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
BR	BR1	BR1FFP 0	0	238	3,127	7,278	12,105	12,775	12,123	11,534	10,999	10,472	9,946	9,420	8,894	8,368	7,842	7,483	7,291	7,099
BR	BR1	BR1SAM 0	0	0	0	231	521	550	522	497	474	452	429	407	384	362	339	324	315	307
BR	BR2	BR2FFP 0	0	252	3,379	7,865	13,414	13,865	13,156	12,514	11,931	11,357	10,783	10,210	9,636	9,062	8,488	8,095	7,881	7,668
BR	BR2	BR2SAM 0	0	0	0	231	534	553	525	499	476	453	431	408	385	362	340	324	315	307
BR	BR3	BR3FFP 0	0	0	204	2,854	7,595	13,437	14,120	13,404	12,757	12,171	11,595	11,019	10,443	9,867	9,290	8,714	8,325	8,122
GH	GH1	GH1FFP 0	0	64	4,332	10,157	17,736	19,154	18,156	17,246	16,412	15,591	14,769	13,948	13,127	12,305	11,484	10,897	10,545	10,193
GH	GH1	GH1SAM 0	0	122	562	1,006	1,964	2,121	2,010	1,909	1,817	1,726	1,635	1,544	1,453	1,362	1,271	1,206	1,167	1,128
GH	GH2	GH2FFP 0	0	0	2,787	7,280	15,016	18,298	17,569	16,777	16,056	15,369	14,684	13,998	13,313	12,627	11,942	11,257	10,791	10,556
GH	GH2	GH2SAM 0	0	11	724	984	935	891	851	814	779	744	709	674	639	605	570	546	535	523
GH	GH3	GH3FFP 0	0	0	0	3,571	8,804	18,270	21,813	20,853	19,901	19,030	18,199	17,369	16,538	15,708	14,877	14,047	13,216	12,647
GH	GH3	GH3SAM 0	0	115	565	1,578	1,935	1,853	1,769	1,691	1,618	1,544	1,471	1,397	1,324	1,250	1,177	1,126	1,099	1,073
GH	GH4	GH4FFP 0	0	0	0	2,843	7,668	14,952	21,319	20,238	19,257	18,361	17,541	16,757	15,973	15,188	14,404	13,619	12,835	12,050
GH	GH4	GH4SAM 0	0	122	527	974	1,948	1,967	1,872	1,786	1,707	1,631	1,555	1,479	1,403	1,328	1,252	1,176	1,124	1,096
MC	MC1	MC1FGD 0	0	0	2,360	7,268	12,372	21,934	23,856	22,601	21,453	20,399	19,360	18,320	17,281	16,242	15,203	14,164	13,412	12,949
MC	MC1	MC1FFP 0	0	0	1,271	5,238	9,364	17,796	19,361	18,343	17,414	16,559	15,717	14,875	14,032	13,190	12,348	11,506	10,896	10,520
MC	MC1	MC1SAM 0	0	0	0	42	560	1,131	1,232	1,168	1,109	1,055	1,001	948	895	841	788	735	696	672
MC	MC2	MC2FGD 0	0	0	2,361	7,270	12,377	23,214	24,770	23,450	22,238	21,119	20,015	18,911	17,806	16,702	15,598	14,494	13,677	13,148
MC	MC2	MC2FFP 0	0	0	1,215	5,051	9,134	18,426	19,666	18,620	17,659	16,772	15,896	15,021	14,145	13,270	12,395	11,519	10,871	10,450
MC	MC2	MC2SAM 0	0	0	0	42	560	1,197	1,279	1,211	1,149	1,092	1,035	978	922	865	808	752	710	682
MC	MC3	MC3FGDU 0	0	0	646	3,668	6,975	9,472	9,135	8,699	8,295	7,908	7,522	7,135	6,748	6,362	5,975	5,589	5,303	5,124
MC	MC3	MC3FGDR 0	0	0	0	0	39	175	207	197	187	179	170	162	154	145	137	128	121	115
MC	MC3	MC3FFP 0	0	0	0	3,730	8,326	13,896	18,276	17,601	16,757	15,977	15,228	14,480	13,732	12,985	12,237	11,489	10,742	10,190
MC	MC3	MC3SAM 0	0	0	734	1,992	2,100	1,997	1,901	1,813	1,728	1,642	1,557	1,472	1,387	1,302	1,217	1,155	1,116	1,077
MC	MC4	MC4FGD 0	0	379	6,987	15,193	21,072	28,573	27,555	26,231	25,008	23,834	22,662	21,491	20,319	19,147	17,976	16,804	15,940	15,402
MC	MC4	MC4SCR 0	0	105	667	724	688	655	625	596	566	537	508	479	449	420	399	386	372	359
MC	MC4	MC4FFP 0	0	377	5,055	10,178	14,629	19,836	19,129	18,210	17,361	16,546	15,733	14,919	14,106	13,293	12,479	11,666	11,066	10,692
MC	MC4	MC4SAM 0	0	0	0	578	1,620	2,201	2,123	2,022	1,929	1,839	1,749	1,660	1,570	1,480	1,391	1,301	1,235	1,193
TC	TC1	TC1FFP 0	0	0	0	2,200	5,745	11,967	15,834	15,223	14,502	13,838	13,200	12,564	11,927	11,291	10,654	10,018	9,381	8,918
CR	CR4	CR4FGD 0	0	394	3,222	13,574	27,295	25,773	24,370	23,071	21,861	20,666	19,471	18,276	17,081	15,886	14,691	13,773	13,130	12,488
CR	CR4	CR4SCR 0	64	390	2,395	6,163	10,786	10,183	9,627	9,112	8,633	8,160	7,687	7,214	6,740	6,267	5,794	5,431	5,177	4,924
CR	CR4	CR4FF 0	0	280	1,715	3,329	5,526	5,216	4,930	4,666	4,421	4,178	3,935	3,692	3,450	3,207	2,964	2,778	2,648	2,519
CR	CR4	CR4PAC 0	0	0	0	235	386	365	345	327	310	293	276	259	242	225	208	195	186	177
CR	CR4	CR4LIME 0	0	0	0	259	427	403	381	361	342	323	305	286	267	249	230	216	206	195
CR	CR5	CR5FGD 0	0	359	3,311	14,658	29,304	27,663	26,148	24,742	23,429	22,132	20,835	19,538	18,241	16,944	15,647	14,641	13,924	13,207
CR	CR5	CR5SCR 0	63	388	2,719	6,475	11,557	10,908	10,308	9,752	9,234	8,721	8,208	7,696	7,183	6,670	6,158	5,760	5,478	5,196
CR	CR5	CR5FF 0	0	300	1,823	3,531	5,992	5,654	5,343	5,054	4,785	4,519	4,253	3,987	3,721	3,455	3,189	2,983	2,837	2,691
CR	CR5	CR5PAC 0	0	0	0	251	423	399	378	357	338	320	301	282	263	245	226	212	201	191
CR	CR5	CR5LIME 0	0	0	0	278	468	441	417	395	374	353	333	312	291	271	250	234	222	211
CR	CR6	CR6FGD 0	0	346	3,887	18,407	35,115	33,170	31,385	29,739	28,213	26,706	25,199	23,692	22,185	20,678	19,171	18,033	17,265	16,496
CR	CR6	CR6SCR 0	79	1,294	4,201	8,457	14,206	13,414	12,689	12,019	11,399	10,787	10,175	9,563	8,951	8,339	7,727	7,266	6,956	6,646
CR	CR6	CR6FF 0	0	394	2,364	4,540	7,252	6,848	6,477	6,136	5,819	5,507	5,194	4,882	4,569	4,257	3,944	3,709	3,551	3,393
CR	CR6	CR6PAC 0	0	0	0	352	558	527	499	473	448	424	401	377	353	329	305	287	275	262
CR	CR6	CR6LIME 0	0	0	0	391	619	585	553	525	498	471	445	418	391	365	338	318	305	291
GR	GR3	GR3SFF 0	0	0	1,323	4,035	5,553	5,254	4,983	4,739	4,516	4,297	4,078	3,859	3,640	3,421	3,202	3,050	2,967	2,884
GR	GR3	GR3PAC 0	0	0	0	112	154	145	138	131	125	119	113	107	101	95	89	85	82	80
GR	GR4	GR4SFF 0	0	0	1,885	5,750	8,517	8,050	7,626	7,237	6,881	6,529	6,177	5,825	5,473	5,122	4,770	4,515	4,356	4,198
GR	GR4	GR4PAC 0	0	0	0	160	235	223	211	200	190	181	171	161	152	142	132	125	121	116

Station	Unit		2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045
BR	BR1	BR1FFP 0	6,908	6,716	6,525	6,333	6,141	5,950	5,758	5,566	5,375	5,183	4,991	4,800	4,608	4,417	4,225	4,033	3,842	3,650
BR	BR1	BR1SAM 0	299	291	282	274	266	257	249	241	232	224	216	208	199	191	183	174	166	158
BR	BR2	BR2FFP 0	7,455	7,242	7,028	6,815	6,602	6,388	6,175	5,962	5,749	5,535	5,322	5,109	4,895	4,682	4,469	4,256	4,042	3,829
BR	BR2	BR2SAM 0	298	290	281	273	264	256	247	239	230	222	213	205	196	187	179	170	162	153
BR	BR3	BR3FFP 0	7,920	7,717	7,514	7,311	7,109	6,906	6,703	6,501	6,298	6,095	5,893	5,690	5,487	5,284	5,082	4,879	4,676	4,474
GH	GH1	GH1FFP 0	9,841	9,489	9,137	8,785	8,433	8,081	7,729	7,377	7,025	6,673	6,321	5,969	2,424	0	0	0	0	0
GH	GH1	GH1SAM 0	1,089	1,050	1,011	972	933	894	855	816	777	738	699	661	268	0	0	0	0	0
GH	GH2	GH2FFP 0	10,330	10,104	9,878	9,652	9,425	9,199	8,973	8,747	8,521	8,295	8,069	7,843	7,617	7,391	7,165	6,939	6,713	6,486
GH	GH2	GH2SAM 0	511	500	488	476	464	453	441	429	418	406	394	383	371	359	348	336	324	312
GH	GH3	GH3FFP 0	12,344	12,047	11,750	11,452	11,155	10,858	10,561	10,263	9,966	9,669	9,372	9,075	8,777	8,480	8,183	7,886	7,588	7,291
GH	GH3	GH3SAM 0	1,047	1,020	994	967	941	915	888	862	835	809	782	756	730	703	677	650	624	598
GH	GH4	GH4FFP 0	11,513	11,223	10,932	10,642	10,352	10,061	9,771	9,481	9,190	8,900	8,610	8,319	8,029	7,739	7,448	7,158	6,867	6,577
GH	GH4	GH4SAM 0	1,068	1,039	1,011	983	955	927	899	870	842	814	786	758	730	701	673	645	617	589
MC	MC1	MC1FGD 0	12,485	12,022	11,558	11,095	10,631	10,167	9,704	9,240	8,777	8,313	7,850	3,188	0	0	0	0	0	0
MC	MC1	MC1FFP 0	10,143	9,767	9,390	9,013	8,637	8,260	7,884	7,507	7,130	6,754	6,377	2,590	0	0	0	0	0	0
MC	MC1	MC1SAM 0	648	624	600	576	552	528	504	480	455	431	407	165	0	0	0	0	0	0
MC	MC2	MC2FGD 0	12,618	12,088	11,558	11,028	10,499	9,969	9,439	8,909	2,908	0	0	0	0	0	0	0	0	0
MC	MC2	MC2FFP 0	10,029	9,608	9,187	8,766	8,344	7,923	7,502	7,081	2,311	0	0	0	0	0	0	0	0	0
MC	MC2	MC2SAM 0	655	627	600	572	545	517	490	462	151	0	0	0	0	0	0	0	0	0
MC	MC3	MC3FGDU 0	4,950	4,777	4,603	4,429	4,256	4,082	3,909	3,735	3,561	3,388	3,214	3,040	2,653	188	0	0	0	0
MC	MC3	MC3FGDR 0	111	107	104	100	96	92	88	85	81	77	73	69	64	44	0	0	0	0
MC	MC3	MC3FFP 0	9,844	9,510	9,175	8,841	8,506	8,172	7,837	7,503	7,168	6,834	6,499	6,165	5,830	4,673	341	0	0	0
MC	MC3	MC3SAM 0	1,039	1,000	961	923	884	846	807	768	730	691	652	213	0	0	0	0	0	0
MC	MC4	MC4FGD 0	14,880	14,358	13,836	13,314	12,792	12,270	11,748	11,226	10,705	10,183	9,661	9,139	7,976	573	0	0	0	0
MC	MC4	MC4SCR 0	346	332	319	306	292	279	266	252	239	226	92	0	0	0	0	0	0	0
MC	MC4	MC4FFP 0	10,330	9,968	9,605	9,243	8,881	8,518	8,156	7,794	7,431	7,069	6,707	6,344	5,537	398	0	0	0	0
MC	MC4	MC4SAM 0	1,153	1,112	1,072	1,031	991	951	910	870	829	789	748	708	618	44	0	0	0	0
TC	TC1	TC1FFP 0	8,637	8,363	8,089	7,815	7,541	7,267	6,993	6,719	6,445	6,171	5,897	5,623	5,349	5,075	4,801	4,186	261	0
CR	CR4	CR4FGD 0	11,845	11,203	10,560	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR4	CR4SCR 0	4,671	4,417	4,164	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR4	CR4FF 0	2,389	2,260	2,130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR4	CR4PAC 0	168	159	150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR4	CR4LIME 0	185	175	165	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR5	CR5FGD 0	12,490	11,774	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR5	CR5SCR 0	4,914	4,632	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR5	CR5FF 0	2,545	2,399	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR5	CR5PAC 0	180	170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR5	CR5LIME 0	199	188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR6	CR6FGD 0	15,727	14,959	14,190	13,421	12,653	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR6	CR6SCR 0	6,337	6,027	5,717	5,408	5,098	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR6	CR6FF 0	3,235	3,077	2,919	2,761	2,602	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR6	CR6PAC 0	250	238	226	213	201	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR6	CR6LIME 0	278	264	250	237	223	0	0	0	0	0	0	0	0	0	0	0	0	0
GR	GR3	GR3SFF 0	2,800	2,717	2,634	2,550	2,467	2,384	2,300	2,217	2,134	2,050	1,967	1,884	1,800	1,717	1,634	1,550	1,467	1,384
GR	GR3	GR3PAC 0	78	75	73	71	68	66	64	62	59	57	55	52	50	48	45	43	41	38
GR	GR4	GR4SFF 0	4,040	3,881	3,723	3,565	3,407	3,248	3,090	2,932	2,773	2,615	0	0	0	0	0	0	0	0
GR	GR4	GR4PAC 0	112	108	103	99	94	90	86	81	77	73	0	0	0	0	0	0	0	0

Station	Unit		2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059
BR	BR1	BR1FFP 0	3,458	3,267	1,327	0	0	0	0	0	0	0	0	0	0	0
BR	BR1	BR1SAM 0	150	141	57	0	0	0	0	0	0	0	0	0	0	0
BR	BR2	BR2FFP 0	3,616	1,180	0	0	0	0	0	0	0	0	0	0	0	0
BR	BR2	BR2SAM 0	145	47	0	0	0	0	0	0	0	0	0	0	0	0
BR	BR3	BR3FFP 0	4,271	4,068	3,865	3,663	3,460	1,405	0	0	0	0	0	0	0	0
GH	GH1	GH1FFP 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GH	GH1	GH1SAM 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GH	GH2	GH2FFP 0	6,260	6,034	5,808	5,582	5,356	5,130	4,904	4,678	4,452	4,226	4,000	3,489	253	0
GH	GH2	GH2SAM 0	301	289	277	266	254	242	231	219	207	196	0	0	0	0
GH	GH3	GH3FFP 0	6,994	6,697	6,400	6,102	5,805	5,508	5,211	4,152	214	0	0	0	0	0
GH	GH3	GH3SAM 0	571	545	518	492	465	405	21	0	0	0	0	0	0	0
GH	GH4	GH4FFP 0	6,287	5,996	5,706	5,416	5,125	4,835	0	0	0	0	0	0	0	0
GH	GH4	GH4SAM 0	561	532	504	476	117	0	0	0	0	0	0	0	0	0
MC	MC1	MC1FGD 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC1	MC1FFP 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC1	MC1SAM 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC2	MC2FGD 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC2	MC2FFP 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC2	MC2SAM 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC3	MC3FGDU 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC3	MC3FGDR 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC3	MC3FFP 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC3	MC3SAM 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC4	MC4FGD 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC4	MC4SCR 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC4	MC4FFP 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC4	MC4SAM 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TC	TC1	TC1FFP 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR4	CR4FGD 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR4	CR4SCR 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR4	CR4FF 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR4	CR4PAC 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR4	CR4LIME 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR5	CR5FGD 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR5	CR5SCR 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR5	CR5FF 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR5	CR5PAC 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR5	CR5LIME 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR6	CR6FGD 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR6	CR6SCR 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR6	CR6FF 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR6	CR6PAC 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR6	CR6LIME 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GR	GR3	GR3SFF 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GR	GR3	GR3PAC 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GR	GR4	GR4SFF 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GR	GR4	GR4PAC 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

		2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
	Retirement Cost											
	All Units	0	0	0	0	0	0	2100	0	0	0	0
2%	Escalation Rate											
	Unit Costs ($000)											
BR	BR1		3,816	4,811	3,969	4,049	4,130	4,212	4,296	4,382	4,470	4,559
BR	BR2		6,633	7,160	7,253	7,398	7,546	7,697	7,851	8,008	8,168	8,331
BR	BR3		15,885	20,876	14,904	15,202	15,506	15,816	16,132	16,455	16,784	17,120
CR	CR4		14,372	9,218	12,029	12,269	12,515	12,765	13,020	13,281	13,546	13,817
CR	CR5		11,842	9,889	12,791	13,047	13,308	13,574	13,845	14,122	14,405	14,693
CR	CR6		10,666	11,619	10,173	10,376	10,584	10,795	11,011	11,231	11,456	11,685
GH	GH1		17,829	19,141	17,966	18,325	18,691	19,065	19,447	19,835	20,232	20,637
GH	GH2		12,225	18,498	13,429	13,698	13,972	14,251	14,536	14,827	15,124	15,426
GH	GH3		17,961	13,501	12,475	12,724	12,979	13,238	13,503	13,773	14,049	14,330
GH	GH4		11,533	13,496	12,105	12,347	12,594	12,846	13,103	13,365	13,632	13,905
GR	GR3		4,270	5,792	4,360	4,447	4,536	4,627	4,719	4,813	4,910	5,008
GR	GR4		7,338	6,924	8,633	8,805	8,982	9,161	9,344	9,531	9,722	9,916
MC	MC1		11,892	17,333	12,669	12,923	13,181	13,445	13,714	13,988	14,268	14,553
MC	MC2		16,179	11,941	15,201	15,505	15,815	16,131	16,454	16,783	17,118	17,461
MC	MC3		18,313	14,238	17,221	17,566	17,917	18,275	18,641	19,014	19,394	19,782
MC	MC4		16,531	18,981	17,245	17,590	17,942	18,300	18,666	19,040	19,421	19,809
TC	TC1		17,205	15,170	17,403	17,751	18,106	18,468	18,837	19,214	19,598	19,990
TY	TY3		410	416	418	427	435	444	453	462	471	480

		2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
	Retirement Cost											
	All Units	0	0	0	0	0	0	0	0	0	0	0
	2% Escalation Rate											
	Unit Costs ($000)											
BR	BR1	4,651	4,744	4,838	4,935	5,034	5,135	5,237	5,342	5,449	5,558	5,669
BR	BR2	8,498	8,668	8,841	9,018	9,199	9,383	9,570	9,762	9,957	10,156	10,359
BR	BR3	17,462	17,811	18,167	18,531	18,901	19,279	19,665	20,058	20,460	20,869	21,286
CR	CR4	14,094	14,375	14,663	14,956	15,255	15,560	15,872	16,189	16,513	16,843	17,180
CR	CR5	14,987	15,286	15,592	15,904	16,222	16,546	16,877	17,215	17,559	17,910	18,269
CR	CR6	11,919	12,157	12,400	12,648	12,901	13,159	13,423	13,691	13,965	14,244	14,529
GH	GH1	21,050	21,471	21,900	22,338	22,785	23,240	23,705	24,179	24,663	25,156	25,659
GH	GH2	15,735	16,049	16,370	16,698	17,032	17,372	17,720	18,074	18,436	18,804	19,181
GH	GH3	14,616	14,909	15,207	15,511	15,821	16,138	16,460	16,790	17,125	17,468	17,817
GH	GH4	14,183	14,467	14,756	15,051	15,352	15,659	15,973	16,292	16,618	16,950	17,289
GR	GR3	5,108	5,210	5,314	5,421	5,529	5,640	5,753	5,868	5,985	6,105	6,227
GR	GR4	10,115	10,317	10,523	10,734	10,949	11,167	11,391	11,619	11,851	12,088	12,330
MC	MC1	14,844	15,141	15,444	15,753	16,068	16,389	16,717	17,051	17,392	17,740	18,095
MC	MC2	17,810	18,166	18,530	18,900	19,278	19,664	20,057	20,458	20,867	21,285	21,710
MC	MC3	20,177	20,581	20,993	21,412	21,841	22,278	22,723	23,178	23,641	24,114	24,596
MC	MC4	20,205	20,609	21,021	21,442	21,871	22,308	22,754	23,209	23,674	24,147	24,630
TC	TC1	20,390	20,798	21,214	21,638	22,071	22,512	22,962	23,422	23,890	24,368	24,855
TY	TY3	490	500	510	520	530	541	552	563	574	586	597

		2032	2033	2034	2035	2036	2037	2038	2039	2040
	Retirement Cost									
	All Units	0	0	0	0	0	0	0	0	0
	2% Escalation Rate									
	Unit Costs ($000)									
BR	BR1	5,782	5,898	6,016	6,136	6,259	6,384	6,512	6,642	6,775
BR	BR2	10,566	10,778	10,993	11,213	11,437	11,666	11,899	12,137	12,380
BR	BR3	21,712	22,146	22,589	23,041	23,502	23,972	24,451	24,940	25,439
CR	CR4	17,524	17,874	18,232	18,596	18,968	19,347	19,734	20,129	20,532
CR	CR5	18,634	19,007	19,387	19,775	20,170	20,573	20,985	21,405	21,833
CR	CR6	14,820	15,116	15,418	15,727	16,041	16,362	16,689	17,023	17,364
GH	GH1	26,172	26,696	27,230	27,774	28,330	28,897	29,474	30,064	30,665
GH	GH2	19,564	19,955	20,355	20,762	21,177	21,600	22,032	22,473	22,923
GH	GH3	18,174	18,537	18,908	19,286	19,672	20,065	20,466	20,876	21,293
GH	GH4	17,635	17,988	18,347	18,714	19,089	19,470	19,860	20,257	20,662
GR	GR3	6,351	6,478	6,608	6,740	6,875	7,012	7,153	7,296	7,442
GR	GR4	12,576	12,828	13,084	13,346	13,613	13,885	14,163	14,446	14,735
MC	MC1	18,457	18,826	19,202	19,586	19,978	20,378	20,785	21,201	21,625
MC	MC2	22,145	22,587	23,039	23,500	23,970	24,449	24,938	25,437	25,946
MC	MC3	25,088	25,590	26,102	26,624	27,156	27,699	28,253	28,818	29,395
MC	MC4	25,123	25,625	26,138	26,660	27,194	27,737	28,292	28,858	29,435
TC	TC1	25,352	25,859	26,377	26,904	27,442	27,991	28,551	29,122	29,704
TY	TY3	609	622	634	647	660	673	686	700	714

Escalation Rate: 2% Year $: 2010

		Month	Year	Equipment	Fixed O&M $/yr	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
BR	BR1	5	2014	PJFF/PAC		0	0	0	598,882	610,860	623,077	635,538	648,249	661,214	674,439	687,927	701,686
BR	BR1	5	2014	SAM Mitigation		0	0	0	78,540	137,333	140,079	142,881	145,739	148,653	151,627	154,659	157,752
BR	BR2	4	2014	PJFF/PAC		0	0	0	714,168	728,451	743,020	757,880	773,038	788,499	804,269	820,354	836,761
BR	BR2	4	2014	SAM Mitigation		0	0	0	134,640	137,333	140,079	142,881	145,739	148,653	151,627	154,659	157,752
BR	BR3	5	2015	PJFF/PAC		0	0	0	0	1,067,560	1,088,911	1,110,689	1,132,903	1,155,561	1,178,672	1,202,245	1,226,290
GH	GH1	5	2014	PJFF/PAC		0	0	0	1,293,082	1,318,944	1,345,322	1,372,229	1,399,673	1,427,667	1,456,220	1,485,345	1,515,052
GH	GH1	5	2014	SCR Turn-Down		0	0	0	0	0	0	0	0	0	0	0	0
GH	GH1	2	2013	SAM Mitigation		0	0	0	4,899	0	0	0	0	0	0	0	0
GH	GH2	11	2014	PJFF/PAC		0	0	0	777,600	1,586,304	1,618,030	1,650,391	1,683,399	1,717,067	1,751,408	1,786,436	1,822,165
GH	GH2	12	2012	Sorbent Injection		0	8,064	98,700	100,674	102,687	104,741	106,836	108,973	111,152	113,375	115,643	117,956
GH	GH3	10	2015	PJFF/PAC		0	0	0	0	652,436	1,330,969	1,357,589	1,384,741	1,412,435	1,440,684	1,469,498	1,498,888
GH	GH3	11	2013	SCR Turn-Down		0	0	0	0	0	0	0	0	0	0	0	0
GH	GH3	2	2013	SAM Mitigation		0	0	0	0	0	0	0	0	0	0	0	0
GH	GH4	12	2015	PJFF/PAC		0	0	0	0	631,870	1,289,014	1,314,795	1,341,091	1,367,912	1,395,271	1,423,176	1,451,640
GH	GH4	3	2014	SCR Turn-Down		0	0	0	0	0	0	0	0	0	0	0	0
GH	GH4	2	2013	SAM Mitigation		0	0	0	0	0	0	0	0	0	0	0	0
MC	MC1	5	2015	Combined 1&2 FGD		0	0	0	0	-238,642	-219,636	-200,250	-180,476	-160,306	-139,733	-118,749	-121,124
MC	MC1	5	2015	PJFF/PAC		0	0	0	0	1,446,222	1,475,147	1,504,650	1,534,743	1,565,438	1,596,746	1,628,681	1,661,255
MC	MC1	5	2015	SAM Mitigation		0	0	0	0	22,100	38,643	39,416	40,204	41,008	41,828	42,665	43,518
MC	MC2	4	2015	Combined 1&2 FGD		0	0	0	0	186,506	205,512	224,899	244,673	264,842	285,415	306,400	312,528
MC	MC2	4	2015	PJFF/PAC		0	0	0	0	1,418,867	1,447,245	1,476,189	1,505,713	1,535,828	1,566,544	1,597,875	1,629,832
MC	MC2	4	2015	SAM Mitigation		0	0	0	0	25,257	38,643	39,416	40,204	41,008	41,828	42,665	43,518
MC	MC3	11	2014	FGD		0	0	0	0	0	0	0	0	0	0	0	0
MC	MC3	10	2015	PJFF/PAC		0	0	0	0	646,753	1,319,377	1,345,764	1,372,679	1,400,133	1,428,136	1,456,698	1,485,832
MC	MC3	4	2013	SAM Mitigation		0	0	24,068	36,824	37,560	38,312	39,078	39,859	40,657	41,470	42,299	43,145
MC	MC3	4	2013	SCR Turn-Down		0	0	0	0	0	0	0	0	0	0	0	0
MC	MC4	11	2014	FGD		0	0	0	0	0	0	0	0	0	0	0	0
MC	MC4	11	2014	PJFF/PAC		0	0	0	743,376	1,516,487	1,546,817	1,577,754	1,609,309	1,641,495	1,674,325	1,707,811	1,741,967
MC	MC4	11	2014	SAM Mitigation		0	0	0	3,095	37,885	38,643	39,416	40,204	41,008	41,828	42,665	43,518
MC	MC4	11	2014	SCR Turn-Down		0	0	0	0	0	0	0	0	0	0	0	0
TC	TC1	11	2015	PJFF/PAC		0	0	0	0	493,761	1,007,273	1,027,418	1,047,966	1,068,926	1,090,304	1,112,110	1,134,353
CR	CR4	1	2016	SCR	1,871,000	0	0	0	0	0	2,107,050	2,149,191	2,192,175	2,236,018	2,280,739	2,326,353	2,372,880
CR	CR4	1	2016	WFGD		0	0	0	0	0	0	0	0	0	0	0	0
CR	CR4	1	2016	PJFF	1,191,000	0	0	0	0	0	1,341,259	1,368,085	1,395,446	1,423,355	1,451,822	1,480,859	1,510,476
CR	CR4	1	2016	SAM Mitigation	174,000	0	0	0	0	0	195,952	199,871	203,869	207,946	212,105	216,347	220,674
CR	CR4	1	2016	PAC Injection	169,000	0	0	0	0	0	190,321	194,128	198,010	201,971	206,010	210,130	214,333
CR	CR5	1	2016	SCR	1,993,000	0	0	0	0	0	2,244,442	2,289,331	2,335,117	2,381,819	2,429,456	2,478,045	2,527,606
CR	CR5	1	2016	WFGD		0	0	0	0	0	0	0	0	0	0	0	0
CR	CR5	1	2016	PJFF	1,251,000	0	0	0	0	0	1,408,829	1,437,006	1,465,746	1,495,061	1,524,962	1,555,461	1,586,570
CR	CR5	1	2016	SAM Mitigation	177,000	0	0	0	0	0	199,331	203,317	207,384	211,531	215,762	220,077	224,479
CR	CR5	1	2016	PAC Injection	172,000	0	0	0	0	0	193,700	197,574	201,525	205,556	209,667	213,860	218,138
CR	CR6	1	2016	SCR	2,392,000	0	0	0	0	0	2,693,781	2,747,656	2,802,609	2,858,661	2,915,835	2,974,151	3,033,634
CR	CR6	1	2016	WFGD		0	0	0	0	0	0	0	0	0	0	0	0
CR	CR6	1	2016	PJFF	1,632,000	0	0	0	0	0	1,837,897	1,874,655	1,912,148	1,950,391	1,989,399	2,029,187	2,069,771
CR	CR6	1	2016	SAM Mitigation	198,000	0	0	0	0	0	222,980	227,440	231,989	236,628	241,361	246,188	251,112
CR	CR6	1	2016	PAC Injection	191,000	0	0	0	0	0	215,097	219,399	223,787	228,263	232,828	237,484	242,234
GR	GR3	1	2016	SCR	0	0	0	0	0	0	0	0	0	0	0	0	0

	Escalation Rate:		2%	Year $:	2010													
					Fixed O&M													
		Month	Year	Equipment	$/yr	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
GR	GR3	1	2016	CDS-FF	3,322,000	0	0	0	0	0	3,741,112	3,815,934	3,892,252	3,970,098	4,049,499	4,130,489	4,213,099
GR	GR3	1	2016	PAC Injection	141,000	0	0	0	0	0	158,789	161,965	165,204	168,508	171,878	175,316	178,822
GR	GR4	1	2016	SCR	0	0	0	0	0	0	0	0	0	0	0	0	0
GR	GR4	1	2016	CDS-FF	4,309,000	0	0	0	0	0	4,852,634	4,949,687	5,048,680	5,149,654	5,252,647	5,357,700	5,464,854
GR	GR4	1	2016	PAC Injection	150,000	0	0	0	0	0	168,924	172,303	175,749	179,264	182,849	186,506	190,236

Escalation Rate: 2% Year $: 2010

		Month	Year	Equipment	Fixed O&M $/yr	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
BR	BR1	5	2014	PJFF/PAC		715,720	730,034	744,635	759,527	774,718	790,212	806,016	822,137	838,580	855,351	872,458	889,907
BR	BR1	5	2014	SAM Mitigation		160,907	164,125	167,408	170,756	174,171	177,655	181,208	184,832	188,529	192,299	196,145	200,068
BR	BR2	4	2014	PJFF/PAC		853,496	870,566	887,978	905,737	923,852	942,329	961,175	980,399	1,000,007	1,020,007	1,040,407	1,061,215
BR	BR2	4	2014	SAM Mitigation		160,907	164,125	167,408	170,756	174,171	177,655	181,208	184,832	188,529	192,299	196,145	200,068
BR	BR3	5	2015	PJFF/PAC		1,250,816	1,275,832	1,301,349	1,327,376	1,353,924	1,381,002	1,408,622	1,436,795	1,465,530	1,494,841	1,524,738	1,555,233
GH	GH1	5	2014	PJFF/PAC		1,545,353	1,576,260	1,607,785	1,639,941	1,672,739	1,706,194	1,740,318	1,775,124	1,810,627	1,846,839	1,883,776	1,921,452
GH	GH1	5	2014	SCR Turn-Down		0	0	0	0	0	0	0	0	0	0	0	0
GH	GH1	2	2013	SAM Mitigation		0	0	0	0	0	0	0	0	0	0	0	0
GH	GH2	11	2014	PJFF/PAC		1,858,608	1,895,781	1,933,696	1,972,370	2,011,817	2,052,054	2,093,095	2,134,957	2,177,656	2,221,209	2,265,633	2,310,946
GH	GH2	12	2012	Sorbent Injection		120,315	122,721	125,175	127,679	130,232	132,837	135,494	138,204	140,968	143,787	146,663	149,596
GH	GH3	10	2015	PJFF/PAC		1,528,865	1,559,443	1,590,632	1,622,444	1,654,893	1,687,991	1,721,751	1,756,186	1,791,310	1,827,136	1,863,678	1,900,952
GH	GH3	11	2013	SCR Turn-Down		0	0	0	0	0	0	0	0	0	0	0	0
GH	GH3	2	2013	SAM Mitigation		0	0	0	0	0	0	0	0	0	0	0	0
GH	GH4	12	2015	PJFF/PAC		1,480,672	1,510,286	1,540,491	1,571,301	1,602,727	1,634,782	1,667,477	1,700,827	1,734,844	1,769,540	1,804,931	1,841,030
GH	GH4	3	2014	SCR Turn-Down		0	0	0	0	0	0	0	0	0	0	0	0
GH	GH4	2	2013	SAM Mitigation		0	0	0	0	0	0	0	0	0	0	0	0
MC	MC1	5	2015	Combined 1&2 FGD		-123,546	-126,017	-128,537	-131,108	-133,730	-136,405	-139,133	-141,916	-144,754	-147,649	-150,602	-153,614
MC	MC1	5	2015	PJFF/PAC		1,694,480	1,728,370	1,762,937	1,798,196	1,834,160	1,870,843	1,908,260	1,946,425	1,985,354	2,025,061	2,065,562	2,106,873
MC	MC1	5	2015	SAM Mitigation		44,388	45,276	46,182	47,105	48,047	49,008	49,989	50,988	52,008	53,048	54,109	55,191
MC	MC2	4	2015	Combined 1&2 FGD		318,778	325,154	331,657	338,290	345,056	351,957	358,996	366,176	373,499	380,969	388,589	396,361
MC	MC2	4	2015	PJFF/PAC		1,662,429	1,695,678	1,729,591	1,764,183	1,799,467	1,835,456	1,872,165	1,909,608	1,947,801	1,986,757	2,026,492	2,067,022
MC	MC2	4	2015	SAM Mitigation		44,388	45,276	46,182	47,105	48,047	49,008	49,989	50,988	52,008	53,048	54,109	55,191
MC	MC3	11	2014	FGD		0	0	0	0	0	0	0	0	0	0	0	0
MC	MC3	10	2015	PJFF/PAC		1,515,549	1,545,860	1,576,777	1,608,313	1,640,479	1,673,288	1,706,754	1,740,889	1,775,707	1,811,221	1,847,446	1,884,395
MC	MC3	4	2013	SAM Mitigation		44,008	44,888	45,786	46,702	47,636	48,588	49,560	50,551	51,562	52,594	53,645	54,718
MC	MC3	4	2013	SCR Turn-Down		0	0	0	0	0	0	0	0	0	0	0	0
MC	MC4	11	2014	FGD		0	0	0	0	0	0	0	0	0	0	0	0
MC	MC4	11	2014	PJFF/PAC		1,776,807	1,812,343	1,848,590	1,885,562	1,923,273	1,961,738	2,000,973	2,040,992	2,081,812	2,123,449	2,165,918	2,209,236
MC	MC4	11	2014	SAM Mitigation		44,388	45,276	46,182	47,105	48,047	49,008	49,989	50,988	52,008	53,048	54,109	55,191
MC	MC4	11	2014	SCR Turn-Down		0	0	0	0	0	0	0	0	0	0	0	0
TC	TC1	11	2015	PJFF/PAC		1,157,040	1,180,180	1,203,784	1,227,860	1,252,417	1,277,465	1,303,015	1,329,075	1,355,656	1,382,769	1,410,425	1,438,633
CR	CR4	1	2016	SCR	1,871,000	2,420,338	2,468,745	2,518,120	2,568,482	2,619,852	2,672,249	2,725,694	2,780,208	2,835,812	2,892,528	2,950,379	3,009,386
CR	CR4	1	2016	WFGD		0	0	0	0	0	0	0	0	0	0	0	0
CR	CR4	1	2016	PJFF	1,191,000	1,540,685	1,571,499	1,602,929	1,634,988	1,667,688	1,701,041	1,735,062	1,769,763	1,805,159	1,841,262	1,878,087	1,915,649
CR	CR4	1	2016	SAM Mitigation	174,000	225,088	229,589	234,181	238,865	243,642	248,515	253,485	258,555	263,726	269,000	274,380	279,868
CR	CR4	1	2016	PAC Injection	169,000	218,620	222,992	227,452	232,001	236,641	241,374	246,201	251,125	256,148	261,271	266,496	271,826
CR	CR5	1	2016	SCR	1,993,000	2,578,158	2,629,721	2,682,316	2,735,962	2,790,681	2,846,495	2,903,425	2,961,493	3,020,723	3,081,137	3,142,760	3,205,615
CR	CR5	1	2016	WFGD		0	0	0	0	0	0	0	0	0	0	0	0
CR	CR5	1	2016	PJFF	1,251,000	1,618,302	1,650,668	1,683,681	1,717,355	1,751,702	1,786,736	1,822,471	1,858,920	1,896,099	1,934,021	1,972,701	2,012,155
CR	CR5	1	2016	SAM Mitigation	177,000	228,968	233,548	238,219	242,983	247,843	252,800	257,856	263,013	268,273	273,638	279,111	284,693
CR	CR5	1	2016	PAC Injection	172,000	222,500	226,950	231,489	236,119	240,842	245,658	250,572	255,583	260,695	265,909	271,227	276,651
CR	CR6	1	2016	SCR	2,392,000	3,094,307	3,156,193	3,219,317	3,283,703	3,349,377	3,416,365	3,484,692	3,554,386	3,625,474	3,697,983	3,771,943	3,847,382
CR	CR6	1	2016	WFGD		0	0	0	0	0	0	0	0	0	0	0	0
CR	CR6	1	2016	PJFF	1,632,000	2,111,166	2,153,389	2,196,457	2,240,386	2,285,194	2,330,898	2,377,516	2,425,066	2,473,567	2,523,039	2,573,500	2,624,970
CR	CR6	1	2016	SAM Mitigation	198,000	256,134	261,257	266,482	271,812	277,248	282,793	288,449	294,218	300,102	306,104	312,226	318,471
CR	CR6	1	2016	PAC Injection	191,000	247,079	252,020	257,061	262,202	267,446	272,795	278,251	283,816	289,492	295,282	301,188	307,212
GR	GR3	1	2016	SCR	0	0	0	0	0	0	0	0	0	0	0	0	0

Escalation Rate: 2% Year $: 2010

		Month	Year	Equipment	Fixed O&M $/yr	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
GR	GR3	1	2016	CDS-FF	3,322,000	4,297,361	4,383,308	4,470,975	4,560,394	4,651,602	4,744,634	4,839,527	4,936,317	5,035,044	5,135,744	5,238,459	5,343,229
GR	GR3	1	2016	PAC Injection	141,000	182,399	186,047	189,767	193,563	197,434	201,383	205,410	209,519	213,709	217,983	222,343	226,790
GR	GR4	1	2016	SCR	0	0	0	0	0	0	0	0	0	0	0	0	0
GR	GR4	1	2016	CDS-FF	4,309,000	5,574,151	5,685,634	5,799,347	5,915,334	6,033,640	6,154,313	6,277,399	6,402,947	6,531,006	6,661,626	6,794,859	6,930,756
GR	GR4	1	2016	PAC Injection	150,000	194,041	197,922	201,880	205,918	210,036	214,237	218,522	222,892	227,350	231,897	236,535	241,266

Escalation Rate: 2% Year $: 2010

		Month	Year	Equipment	Fixed O&M $/yr	2035	2036	2037	2038	2039	2040
BR	BR1	5	2014	PJFF/PAC		907,705	925,860	944,377	963,264	982,530	1,002,180
BR	BR1	5	2014	SAM Mitigation		204,069	208,151	212,314	216,560	220,891	225,309
BR	BR2	4	2014	PJFF/PAC		1,082,440	1,104,088	1,126,170	1,148,694	1,171,668	1,195,101
BR	BR2	4	2014	SAM Mitigation		204,069	208,151	212,314	216,560	220,891	225,309
BR	BR3	5	2015	PJFF/PAC		1,586,337	1,618,064	1,650,425	1,683,434	1,717,103	1,751,445
GH	GH1	5	2014	PJFF/PAC		1,959,881	1,999,078	2,039,060	2,079,841	2,121,438	2,163,867
GH	GH1	5	2014	SCR Turn-Down		0	0	0	0	0	0
GH	GH1	2	2013	SAM Mitigation		0	0	0	0	0	0
GH	GH2	11	2014	PJFF/PAC		2,357,165	2,404,308	2,452,394	2,501,442	2,551,471	2,602,500
GH	GH2	12	2012	Sorbent Injection		152,588	155,640	158,753	161,928	165,166	168,470
GH	GH3	10	2015	PJFF/PAC		1,938,971	1,977,751	2,017,306	2,057,652	2,098,805	2,140,781
GH	GH3	11	2013	SCR Turn-Down		0	0	0	0	0	0
GH	GH3	2	2013	SAM Mitigation		0	0	0	0	0	0
GH	GH4	12	2015	PJFF/PAC		1,877,850	1,915,407	1,953,716	1,992,790	2,032,646	2,073,299
GH	GH4	3	2014	SCR Turn-Down		0	0	0	0	0	0
GH	GH4	2	2013	SAM Mitigation		0	0	0	0	0	0
MC	MC1	5	2015	Combined 1&2 FGD		-156,686	-159,820	-163,017	-166,277	-169,602	-172,994
MC	MC1	5	2015	PJFF/PAC		2,149,010	2,191,991	2,235,831	2,280,547	2,326,158	2,372,681
MC	MC1	5	2015	SAM Mitigation		56,295	57,421	58,570	59,741	60,936	62,155
MC	MC2	4	2015	Combined 1&2 FGD		404,288	412,374	420,621	429,033	437,614	446,366
MC	MC2	4	2015	PJFF/PAC		2,108,362	2,150,529	2,193,540	2,237,411	2,282,159	2,327,802
MC	MC2	4	2015	SAM Mitigation		56,295	57,421	58,570	59,741	60,936	62,155
MC	MC3	11	2014	FGD		0	0	0	0	0	0
MC	MC3	10	2015	PJFF/PAC		1,922,083	1,960,524	1,999,735	2,039,729	2,080,524	2,122,134
MC	MC3	4	2013	SAM Mitigation		55,813	56,929	58,068	59,229	60,414	61,622
MC	MC3	4	2013	SCR Turn-Down		0	0	0	0	0	0
MC	MC4	11	2014	FGD		0	0	0	0	0	0
MC	MC4	11	2014	PJFF/PAC		2,253,421	2,298,489	2,344,459	2,391,348	2,439,175	2,487,958
MC	MC4	11	2014	SAM Mitigation		56,295	57,421	58,570	59,741	60,936	62,155
MC	MC4	11	2014	SCR Turn-Down		0	0	0	0	0	0
TC	TC1	11	2015	PJFF/PAC		1,467,406	1,496,754	1,526,689	1,557,223	1,588,367	1,620,135
CR	CR4	1	2016	SCR	1,871,000	3,069,574	3,130,965	3,193,585	3,257,456	3,322,605	3,389,058
CR	CR4	1	2016	WFGD		0	0	0	0	0	0
CR	CR4	1	2016	PJFF	1,191,000	1,953,962	1,993,041	2,032,902	2,073,560	2,115,031	2,157,332
CR	CR4	1	2016	SAM Mitigation	174,000	285,465	291,175	296,998	302,938	308,997	315,177
CR	CR4	1	2016	PAC Injection	169,000	277,262	282,808	288,464	294,233	300,118	306,120
CR	CR5	1	2016	SCR	1,993,000	3,269,728	3,335,122	3,401,825	3,469,861	3,539,258	3,610,044
CR	CR5	1	2016	WFGD		0	0	0	0	0	0
CR	CR5	1	2016	PJFF	1,251,000	2,052,398	2,093,446	2,135,315	2,178,021	2,221,582	2,266,013
CR	CR5	1	2016	SAM Mitigation	177,000	290,387	296,195	302,119	308,161	314,325	320,611
CR	CR5	1	2016	PAC Injection	172,000	282,184	287,828	293,584	299,456	305,445	311,554
CR	CR6	1	2016	SCR	2,392,000	3,924,330	4,002,816	4,082,872	4,164,530	4,247,820	4,332,777
CR	CR6	1	2016	WFGD		0	0	0	0	0	0
CR	CR6	1	2016	PJFF	1,632,000	2,677,469	2,731,018	2,785,639	2,841,352	2,898,179	2,956,142
CR	CR6	1	2016	SAM Mitigation	198,000	324,840	331,337	337,964	344,723	351,617	358,650
CR	CR6	1	2016	PAC Injection	191,000	313,356	319,623	326,015	332,536	339,186	345,970
GR	GR3	1	2016	SCR	0	0	0	0	0	0	0

	Escalation Rate:		2%	Year $:	2010							
					Fixed O&M							
		Month	Year	Equipment	$/yr	2035	2036	2037	2038	2039	2040
GR	GR3	1	2016	CDS-FF	3,322,000	5,450,093	5,559,095	5,670,277	5,783,682	5,899,356	6,017,343
GR	GR3	1	2016	PAC Injection	141,000	231,325	235,952	240,671	245,484	250,394	255,402
GR	GR4	1	2016	SCR	0	0	0	0	0	0	0
GR	GR4	1	2016	CDS-FF	4,309,000	7,069,371	7,210,759	7,354,974	7,502,073	7,652,115	7,805,157
GR	GR4	1	2016	PAC Injection	150,000	246,091	251,013	256,033	261,154	266,377	271,704

		$000																		
Station	Unit	Capacity	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
BR	BR1	101	69	164	256	346	434	520	605	689	771	852	931	1,008	1,085	1,163	1,241	1,320	1,399	1,479
BR	BR2	167	114	271	423	571	717	860	1,001	1,139	1,275	1,408	1,539	1,667	1,794	1,922	2,052	2,182	2,313	2,446
BR	BR3	416	285	675	1,053	1,423	1,786	2,143	2,493	2,838	3,176	3,508	3,834	4,153	4,469	4,789	5,111	5,435	5,762	6,092
CR	CR4	155	77	204	327	447	564	678	790	899	1,006	1,109	1,210	1,308	1,405	1,501	1,596	1,691	1,786	1,880
CR	CR5	168	84	221	355	485	611	735	856	975	1,090	1,202	1,312	1,418	1,522	1,626	1,730	1,833	1,936	2,038
CR	CR6	240	120	316	507	692	873	1,050	1,223	1,392	1,557	1,718	1,874	2,026	2,175	2,324	2,471	2,619	2,765	2,911
GH	GH1	475	510	1,206	1,884	2,548	3,200	3,843	4,477	5,101	5,717	6,322	6,918	7,504	8,080	8,653	9,231	9,814	10,402	10,995
GH	GH2	484	520	1,228	1,920	2,596	3,261	3,916	4,562	5,198	5,825	6,442	7,049	7,646	8,233	8,817	9,405	9,999	10,599	11,204
GH	GH3	480	516	1,218	1,904	2,575	3,234	3,883	4,524	5,155	5,777	6,389	6,991	7,583	8,165	8,744	9,328	9,917	10,511	11,111
GH	GH4	479	515	1,216	1,900	2,570	3,227	3,875	4,514	5,144	5,765	6,376	6,977	7,567	8,148	8,726	9,308	9,896	10,489	11,088
GR	GR3	68	39	96	151	205	258	309	360	410	458	506	553	598	643	689	734	780	825	871
GR	GR4	95	55	134	211	286	360	432	503	572	640	707	772	836	899	962	1,026	1,089	1,153	1,217
MC	MC1	303	309	767	1,213	1,649	2,077	2,497	2,910	3,315	3,714	4,104	4,487	4,862	5,229	5,592	5,956	6,320	6,686	7,053
MC	MC2	301	307	762	1,205	1,639	2,063	2,480	2,891	3,294	3,689	4,077	4,458	4,830	5,194	5,555	5,916	6,279	6,642	7,007
MC	MC3	391	398	989	1,565	2,128	2,680	3,222	3,755	4,278	4,792	5,296	5,790	6,274	6,747	7,216	7,685	8,156	8,628	9,102
MC	MC4	477	486	1,207	1,910	2,597	3,270	3,931	4,581	5,219	5,846	6,461	7,064	7,654	8,231	8,803	9,376	9,950	10,526	11,103
TC	TC1	383	115	270	420	567	712	855	996	1,135	1,272	1,407	1,539	1,670	1,799	1,927	2,057	2,188	2,320	2,453
TC	TC2	549	166	386	602	813	1,021	1,225	1,427	1,626	1,823	2,016	2,207	2,394	2,579	2,762	2,948	3,136	3,325	3,517
TY	TY3	71	94	233	368	499	628	754	878	999	1,118	1,234	1,347	1,458	1,568	1,677	1,787	1,898	2,008	2,119

2.50% Capital Escalation Rate

2011 CR	281	454	428	405	384	364	344	325	305	285	266	246	231	221	211	200	190	180
2012 CR		288	465	439	415	394	373	353	333	313	293	272	252	237	226	216	205	195
2013 CR			295	477	450	426	403	382	362	341	321	300	279	259	243	232	221	210
2014 CR				303	489	461	436	413	392	371	350	329	307	286	265	249	238	227
2015 CR					310	501	473	447	424	402	380	358	337	315	293	272	255	244
2016 CR						318	513	485	459	434	412	390	367	345	323	301	279	262
2017 CR							326	526	497	470	445	422	399	377	354	331	308	286
2018 CR								334	539	509	482	456	433	409	386	363	339	316
2019 CR									342	553	522	494	468	444	420	396	372	348
2020 CR										351	567	535	506	479	455	430	406	381
2021 CR											360	581	548	519	491	466	441	416
2022 CR												369	595	562	532	504	478	452
2023 CR													378	610	576	545	516	490
2024 CR														387	625	591	559	529
2025 CR															397	641	605	573
2026 CR																407	657	621
2027 CR																	417	673
2028 CR																		428
2029 CR																		
2030 CR																		
2031 CR																		
2032 CR																		
2033 CR																		
2034 CR																		
2035 CR																		
2036 CR																		
2037 CR																		
2038 CR																		

Station	Unit	Capacity	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
			$000																	
	2039	CR																		
	2040	CR																		
	2011	MC	1,499	2,188	2,076	1,972	1,877	1,788	1,703	1,617	1,532	1,447	1,361	1,276	1,191	1,128	1,089	1,049	1,010	970
	2012	MC		1,536	2,243	2,128	2,021	1,923	1,833	1,745	1,658	1,570	1,483	1,395	1,308	1,221	1,157	1,116	1,075	1,035
	2013	MC			1,575	2,299	2,181	2,072	1,972	1,878	1,789	1,699	1,610	1,520	1,430	1,341	1,251	1,185	1,144	1,102
	2014	MC				1,614	2,357	2,235	2,124	2,021	1,925	1,834	1,742	1,650	1,558	1,466	1,374	1,282	1,215	1,173
	2015	MC					1,655	2,416	2,291	2,177	2,071	1,974	1,879	1,785	1,691	1,597	1,503	1,409	1,314	1,245
	2016	MC						1,696	2,476	2,348	2,231	2,123	2,023	1,926	1,830	1,733	1,637	1,540	1,444	1,347
	2017	MC							1,738	2,538	2,407	2,287	2,176	2,073	1,975	1,876	1,777	1,678	1,579	1,480
	2018	MC								1,782	2,601	2,467	2,344	2,231	2,125	2,024	1,922	1,821	1,720	1,618
	2019	MC									1,826	2,666	2,529	2,403	2,286	2,178	2,075	1,971	1,867	1,763
	2020	MC										1,872	2,733	2,592	2,463	2,344	2,233	2,126	2,020	1,913
	2021	MC											1,919	2,801	2,657	2,524	2,402	2,289	2,180	2,070
	2022	MC												1,967	2,871	2,723	2,588	2,462	2,346	2,234
	2023	MC													2,016	2,943	2,792	2,652	2,524	2,405
	2024	MC														2,066	3,017	2,861	2,719	2,587
	2025	MC															2,118	3,092	2,933	2,787
	2026	MC																2,171	3,170	3,006
	2027	MC																	2,225	3,249
	2028	MC																		2,281
	2029	MC																		
	2030	MC																		
	2031	MC																		
	2032	MC																		
	2033	MC																		
	2034	MC																		
	2035	MC																		
	2036	MC																		
	2037	MC																		
	2038	MC																		
	2039	MC																		
	2040	MC																		
	2011	TC	281	368	350	333	318	304	291	278	264	251	238	225	211	203	198	193	189	184
	2012	TC		288	377	358	341	326	312	298	284	271	257	244	230	217	208	203	198	193
	2013	TC			295	387	367	350	334	319	305	292	278	264	250	236	222	213	208	203
	2014	TC				303	396	376	359	342	327	313	299	285	270	256	242	228	218	213
	2015	TC					310	406	386	368	351	336	321	306	292	277	263	248	233	224
	2016	TC						318	416	396	377	360	344	329	314	299	284	269	254	239
	2017	TC							326	427	405	386	369	353	337	322	307	291	276	261
	2018	TC								334	437	416	396	378	361	346	330	314	298	283
	2019	TC									342	448	426	406	387	370	354	338	322	306
	2020	TC										351	460	437	416	397	380	363	347	330
	2021	TC											360	471	447	426	407	389	372	355
	2022	TC												369	483	459	437	417	399	381
	2023	TC													378	495	470	448	427	409
	2024	TC														387	507	482	459	438
	2025	TC															397	520	494	470
	2026	TC																407	533	506
	2027	TC																	417	546
	2028	TC																		428
	2029	TC																		

$000

Station	Unit	Capacity	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
	2030	TC																		
	2031	TC																		
	2032	TC																		
	2033	TC																		
	2034	TC																		
	2035	TC																		
	2036	TC																		
	2037	TC																		
	2038	TC																		
	2039	TC																		
	2040	TC																		
	2011	GH	2,061	2,756	2,617	2,492	2,377	2,272	2,171	2,070	1,970	1,869	1,768	1,667	1,567	1,498	1,460	1,422	1,384	1,346
	2012	GH		2,113	2,825	2,683	2,554	2,436	2,328	2,225	2,122	2,019	1,916	1,812	1,709	1,606	1,535	1,496	1,458	1,419
	2013	GH			2,165	2,895	2,750	2,618	2,497	2,387	2,281	2,175	2,069	1,963	1,858	1,752	1,646	1,573	1,534	1,494
	2014	GH				2,219	2,968	2,819	2,683	2,560	2,446	2,338	2,229	2,121	2,013	1,904	1,796	1,687	1,613	1,572
	2015	GH					2,275	3,042	2,889	2,750	2,623	2,507	2,396	2,285	2,174	2,063	1,952	1,841	1,729	1,653
	2016	GH						2,332	3,118	2,961	2,819	2,689	2,570	2,456	2,342	2,228	2,114	2,001	1,887	1,773
	2017	GH							2,390	3,196	3,035	2,889	2,756	2,634	2,518	2,401	2,284	2,167	2,051	1,934
	2018	GH								2,450	3,276	3,111	2,962	2,825	2,700	2,581	2,461	2,341	2,221	2,102
	2019	GH									2,511	3,358	3,189	3,036	2,896	2,768	2,645	2,522	2,400	2,277
	2020	GH										2,574	3,442	3,269	3,112	2,968	2,837	2,711	2,585	2,460
	2021	GH											2,638	3,528	3,350	3,189	3,042	2,908	2,779	2,650
	2022	GH												2,704	3,616	3,434	3,269	3,119	2,981	2,848
	2023	GH													2,772	3,706	3,520	3,351	3,196	3,055
	2024	GH														2,841	3,799	3,608	3,435	3,276
	2025	GH															2,912	3,894	3,698	3,521
	2026	GH																2,985	3,991	3,791
	2027	GH																	3,060	4,091
	2028	GH																		3,136
	2029	GH																		
	2030	GH																		
	2031	GH																		
	2032	GH																		
	2033	GH																		
	2034	GH																		
	2035	GH																		
	2036	GH																		
	2037	GH																		
	2038	GH																		
	2039	GH																		
	2040	GH																		
	2011	BR	468	629	595	565	538	513	489	464	440	415	391	367	350	341	332	323	315	306
	2012	BR		480	645	610	579	551	526	501	476	451	426	401	376	359	350	341	332	323
	2013	BR			492	661	625	594	565	539	513	488	462	436	411	385	368	358	349	340
	2014	BR				504	677	641	609	579	552	526	500	474	447	421	395	377	367	358
	2015	BR					517	694	657	624	594	566	539	512	485	458	432	405	386	377
	2016	BR						530	712	674	639	608	580	553	525	498	470	442	415	396
	2017	BR							543	729	690	655	624	595	567	538	510	482	453	425
	2018	BR								557	748	708	672	639	610	581	552	523	494	465
	2019	BR									571	766	725	688	655	625	595	566	536	506
	2020	BR										585	785	743	706	672	641	610	580	549

Station	Unit	Capacity	$000 2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
	2021	BR											600	805	762	723	688	657	625	594
	2022	BR												615	825	781	741	706	673	641
	2023	BR													630	846	801	760	723	690
	2024	BR														646	867	821	779	741
	2025	BR															662	889	841	798
	2026	BR																678	911	862
	2027	BR																	695	934
	2028	BR																		713
	2029	BR																		
	2030	BR																		
	2031	BR																		
	2032	BR																		
	2033	BR																		
	2034	BR																		
	2035	BR																		
	2036	BR																		
	2037	BR																		
	2038	BR																		
	2039	BR																		
	2040	BR																		
	2011	GR	94	134	127	120	114	108	103	98	92	87	81	76	72	70	68	65	63	61
	2012	GR		96	137	130	123	117	111	106	100	95	89	83	78	74	72	69	67	65
	2013	GR			98	141	133	126	120	114	108	103	97	91	86	80	76	73	71	69
	2014	GR				101	144	136	129	123	117	111	105	99	94	88	82	78	75	73
	2015	GR					103	148	140	132	126	120	114	108	102	96	90	84	80	77
	2016	GR						106	151	143	136	129	123	117	111	104	98	92	86	82
	2017	GR							109	155	147	139	132	126	120	113	107	101	94	88
	2018	GR								111	159	150	143	135	129	123	116	110	103	97
	2019	GR									114	163	154	146	139	132	126	119	112	106
	2020	GR										117	167	158	150	142	135	129	122	115
	2021	GR											120	171	162	154	146	139	132	125
	2022	GR												123	176	166	157	150	142	135
	2023	GR													126	180	170	161	153	146
	2024	GR														129	184	174	165	157
	2025	GR															132	189	179	169
	2026	GR																136	194	183
	2027	GR																	139	199
	2028	GR																		143
	2029	GR																		
	2030	GR																		
	2031	GR																		
	2032	GR																		
	2033	GR																		
	2034	GR																		
	2035	GR																		
	2036	GR																		
	2037	GR																		
	2038	GR																		
	2039	GR																		
	2040	GR																		
	2011	TY	94	137	129	122	116	111	105	99	94	88	83	77	73	71	68	66	63	61

$000

Station	Unit	Capacity	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
	2012	TY		96	140	132	125	119	113	108	102	96	90	85	79	75	72	70	67	65
	2013	TY			98	143	136	129	122	116	110	104	99	93	87	81	77	74	71	69
	2014	TY				101	147	139	132	125	119	113	107	101	95	89	83	79	76	73
	2015	TY					103	151	143	135	128	122	116	110	104	97	91	85	81	78
	2016	TY						106	154	146	138	131	125	119	112	106	100	93	87	83
	2017	TY							109	158	150	142	135	128	122	115	109	102	96	89
	2018	TY								111	162	153	145	138	131	125	118	111	105	98
	2019	TY									114	166	157	149	142	135	128	121	114	107
	2020	TY										117	171	161	153	145	138	131	124	117
	2021	TY											120	175	165	157	149	141	134	127
	2022	TY												123	179	169	161	152	145	138
	2023	TY													126	184	174	165	156	149
	2024	TY														129	188	178	169	160
	2025	TY															132	193	182	173
	2026	TY																136	198	187
	2027	TY																	139	203
	2028	TY																		143
	2029	TY																		
	2030	TY																		
	2031	TY																		
	2032	TY																		
	2033	TY																		
	2034	TY																		
	2035	TY																		
	2036	TY																		
	2037	TY																		
	2038	TY																		
	2039	TY																		
	2040	TY																		

Station	Unit	Capacity	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
BR	BR1	101	1,560	1,642	1,724	1,807	1,891	1,975	2,061	2,147	2,234	2,322	2,411	2,501	2,446	2,340	2,239	2,145	2,055	1,969
BR	BR2	167	2,579	2,714	2,850	2,988	3,126	3,266	3,407	3,550	3,694	3,839	3,986	4,135	4,045	3,868	3,703	3,546	3,397	3,255
BR	BR3	416	6,425	6,761	7,100	7,442	7,787	8,136	8,488	8,843	9,202	9,564	9,930	10,300	10,076	9,636	9,223	8,833	8,463	8,109
CR	CR4	155	1,974	2,023	2,073	2,125	2,178	2,233	2,289	2,346	2,405	2,465	2,526	2,589	2,492	2,292	2,102	1,921	1,747	1,580
CR	CR5	168	2,139	2,193	2,247	2,304	2,361	2,420	2,481	2,543	2,606	2,671	2,738	2,807	2,701	2,484	2,278	2,082	1,893	1,713
CR	CR6	240	3,056	3,132	3,210	3,291	3,373	3,457	3,544	3,632	3,723	3,816	3,912	4,009	3,858	3,549	3,255	2,974	2,705	2,447
GH	GH1	475	11,594	12,199	12,809	13,425	14,048	14,676	15,311	15,953	16,601	17,256	17,918	18,587	18,193	17,419	16,688	15,994	15,334	14,702
GH	GH2	484	11,814	12,430	13,052	13,680	14,314	14,954	15,601	16,255	16,915	17,583	18,257	18,939	18,537	17,749	17,004	16,297	15,624	14,981
GH	GH3	480	11,716	12,327	12,944	13,567	14,196	14,831	15,472	16,121	16,775	17,437	18,106	18,782	18,384	17,602	16,863	16,163	15,495	14,857
GH	GH4	479	11,692	12,302	12,917	13,538	14,166	14,800	15,440	16,087	16,741	17,401	18,069	18,743	18,346	17,565	16,828	16,129	15,463	14,826
GR	GR3	68	918	964	1,011	1,057	1,104	1,152	1,199	1,247	1,295	1,343	1,377	1,411	1,364	1,281	1,203	1,128	1,056	988
GR	GR4	95	1,282	1,347	1,412	1,477	1,543	1,609	1,675	1,742	1,809	1,876	1,923	1,971	1,906	1,790	1,680	1,575	1,476	1,380
MC	MC1	303	7,421	7,790	8,160	8,531	8,903	9,277	9,651	10,027	10,278	10,535	10,798	11,068	10,698	10,020	9,375	8,758	8,166	7,598
MC	MC2	301	7,372	7,739	8,106	8,475	8,845	9,216	9,588	9,961	10,210	10,465	10,727	10,995	10,627	9,954	9,313	8,700	8,112	7,548
MC	MC3	391	9,576	10,052	10,530	11,009	11,489	11,971	12,455	12,940	13,263	13,595	13,934	14,283	13,805	12,931	12,097	11,301	10,538	9,805
MC	MC4	477	11,683	12,263	12,846	13,430	14,016	14,604	15,194	15,786	16,180	16,585	16,999	17,424	16,841	15,775	14,758	13,787	12,856	11,962
TC	TC1	383	2,588	2,725	2,863	3,002	3,144	3,286	3,431	3,577	3,725	3,875	4,026	4,180	4,093	3,927	3,771	3,623	3,483	3,349
TC	TC2	549	3,710	3,906	4,104	4,304	4,506	4,711	4,918	5,127	5,339	5,554	5,771	5,991	5,866	5,629	5,405	5,193	4,992	4,801
TY	TY3	71	2,230	2,341	2,453	2,565	2,678	2,790	2,904	3,017	3,092	3,170	3,249	3,330	3,217	3,011	2,815	2,629	2,451	2,281

		2.50%																		
2011	CR		169	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2012	CR		184	174	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2013	CR		200	189	178	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2014	CR		216	205	194	182	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2015	CR		232	221	210	198	187	0	0	0	0	0	0	0	0	0	0	0	0	0
2016	CR		250	238	227	215	203	192	0	0	0	0	0	0	0	0	0	0	0	0
2017	CR		268	256	244	232	220	208	196	0	0	0	0	0	0	0	0	0	0	0
2018	CR		293	275	263	250	238	226	214	201	0	0	0	0	0	0	0	0	0	0
2019	CR		324	300	282	269	257	244	232	219	206	0	0	0	0	0	0	0	0	0
2020	CR		357	332	307	289	276	263	250	237	224	212	0	0	0	0	0	0	0	0
2021	CR		391	365	340	315	296	283	270	256	243	230	217	0	0	0	0	0	0	0
2022	CR		426	400	375	349	323	303	290	276	263	249	236	222	0	0	0	0	0	0
2023	CR		463	437	410	384	358	331	311	297	283	269	256	242	228	0	0	0	0	0
2024	CR		502	475	448	421	394	366	339	319	305	290	276	262	248	234	0	0	0	0
2025	CR		542	514	487	459	431	403	376	348	327	312	298	283	268	254	239	0	0	0
2026	CR		587	556	527	499	470	442	413	385	357	335	320	305	290	275	260	245	0	0
2027	CR		636	602	570	540	511	482	453	424	395	365	343	328	313	297	282	267	252	0
2028	CR		690	652	617	584	554	524	494	464	434	404	375	352	336	320	305	289	273	258
2029	CR		438	708	668	632	599	568	537	506	476	445	415	384	361	345	329	312	296	280
2030	CR			449	725	685	648	614	582	551	519	488	456	425	394	370	353	337	320	304
2031	CR				461	743	702	664	629	596	564	532	500	468	436	403	379	362	345	328
2032	CR					472	762	720	681	645	611	578	545	512	479	446	414	388	371	354
2033	CR						484	781	738	698	661	627	593	559	525	491	458	424	398	380
2034	CR							496	800	756	715	677	642	608	573	538	504	469	434	408
2035	CR								508	820	775	733	694	658	623	587	552	516	481	445
2036	CR									521	841	794	751	712	675	638	602	566	529	493
2037	CR										534	862	814	770	730	692	654	617	580	542
2038	CR											547	884	835	789	748	709	671	633	594

Station	Unit	Capacity	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
	2039	CR											561	906	855	809	766	727	688	648
	2040	CR												575	928	877	829	786	745	705
	2011	MC	931	891	851	812	772	733	693	654	0	0	0	0	0	0	0	0	0	0
	2012	MC	994	954	913	873	832	792	751	711	670	0	0	0	0	0	0	0	0	0
	2013	MC	1,061	1,019	978	936	895	853	811	770	728	687	0	0	0	0	0	0	0	0
	2014	MC	1,130	1,087	1,045	1,002	960	917	874	832	789	747	704	0	0	0	0	0	0	0
	2015	MC	1,202	1,158	1,115	1,071	1,027	984	940	896	853	809	765	722	0	0	0	0	0	0
	2016	MC	1,277	1,232	1,187	1,142	1,098	1,053	1,008	963	919	874	829	784	740	0	0	0	0	0
	2017	MC	1,381	1,309	1,263	1,217	1,171	1,125	1,079	1,033	987	942	896	850	804	758	0	0	0	0
	2018	MC	1,517	1,415	1,341	1,294	1,247	1,200	1,153	1,106	1,059	1,012	965	918	871	824	777	0	0	0
	2019	MC	1,659	1,555	1,451	1,375	1,327	1,278	1,230	1,182	1,134	1,086	1,037	989	941	893	845	797	0	0
	2020	MC	1,807	1,700	1,594	1,487	1,409	1,360	1,310	1,261	1,212	1,162	1,113	1,063	1,014	965	915	866	816	0
	2021	MC	1,961	1,852	1,743	1,634	1,524	1,444	1,394	1,343	1,292	1,242	1,191	1,141	1,090	1,039	989	938	887	837
	2022	MC	2,122	2,010	1,898	1,786	1,674	1,562	1,480	1,429	1,377	1,325	1,273	1,221	1,169	1,117	1,065	1,013	962	910
	2023	MC	2,290	2,175	2,060	1,946	1,831	1,716	1,601	1,518	1,464	1,411	1,358	1,305	1,252	1,198	1,145	1,092	1,039	986
	2024	MC	2,465	2,347	2,230	2,112	1,994	1,877	1,759	1,642	1,555	1,501	1,446	1,392	1,337	1,283	1,228	1,174	1,119	1,065
	2025	MC	2,651	2,526	2,406	2,285	2,165	2,044	1,924	1,803	1,683	1,594	1,538	1,483	1,427	1,371	1,315	1,259	1,203	1,147
	2026	MC	2,856	2,718	2,589	2,466	2,342	2,219	2,095	1,972	1,848	1,725	1,634	1,577	1,520	1,462	1,405	1,348	1,290	1,233
	2027	MC	3,081	2,928	2,786	2,654	2,528	2,401	2,274	2,148	2,021	1,894	1,768	1,675	1,616	1,558	1,499	1,440	1,381	1,323
	2028	MC	3,330	3,158	3,001	2,855	2,721	2,591	2,461	2,331	2,201	2,072	1,942	1,812	1,717	1,657	1,597	1,536	1,476	1,416
	2029	MC	2,338	3,413	3,237	3,076	2,927	2,789	2,656	2,522	2,389	2,256	2,123	1,990	1,857	1,760	1,698	1,636	1,575	1,513
	2030	MC		2,396	3,499	3,318	3,153	3,000	2,858	2,722	2,586	2,449	2,313	2,176	2,040	1,904	1,804	1,741	1,677	1,614
	2031	MC			2,456	3,586	3,401	3,232	3,075	2,930	2,790	2,650	2,510	2,371	2,231	2,091	1,951	1,849	1,784	1,719
	2032	MC				2,518	3,676	3,486	3,312	3,152	3,003	2,860	2,716	2,573	2,430	2,287	2,143	2,000	1,895	1,829
	2033	MC					2,580	3,768	3,573	3,395	3,231	3,078	2,931	2,784	2,637	2,491	2,344	2,197	2,050	1,943
	2034	MC						2,645	3,862	3,663	3,480	3,311	3,155	3,004	2,854	2,703	2,553	2,402	2,252	2,101
	2035	MC							2,711	3,958	3,754	3,567	3,394	3,234	3,080	2,925	2,771	2,617	2,462	2,308
	2036	MC								2.779	4,057	3,848	3,656	3,479	3,315	3,157	2,998	2,840	2,682	2,524
	2037	MC									2,848	4,159	3,944	3,748	3,566	3,398	3,236	3,073	2,911	2,749
	2038	MC										2,920	4,263	4,043	3,841	3,655	3,483	3,316	3,150	2,984
	2039	MC											2,993	4,369	4,144	3,937	3,746	3,570	3,399	3,229
	2040	MC												3,067	4,478	4,248	4,036	3,840	3,659	3,484
	2011	TC	179	175	170	165	161	156	152	147	142	138	133	128	124	119	114	110	105	101
	2012	TC	189	184	179	174	170	165	160	155	151	146	141	136	132	127	122	117	113	108
	2013	TC	198	193	188	184	179	174	169	164	159	154	149	145	140	135	130	125	120	115
	2014	TC	208	203	198	193	188	183	178	173	168	163	158	153	148	143	138	133	128	123
	2015	TC	218	213	208	203	198	193	188	183	178	172	167	162	157	152	147	142	137	131
	2016	TC	229	224	219	213	208	203	198	192	187	182	177	171	166	161	156	150	145	140
	2017	TC	245	235	230	224	219	213	208	203	197	192	187	181	176	170	165	160	154	149
	2018	TC	267	251	241	235	230	224	219	213	208	202	197	191	186	180	175	169	164	158
	2019	TC	290	274	258	247	241	235	230	224	219	213	207	202	196	190	185	179	173	168
	2020	TC	314	297	281	264	253	247	241	236	230	224	218	212	207	201	195	189	183	178
	2021	TC	338	321	305	288	271	259	253	247	241	236	230	224	218	212	206	200	194	188
	2022	TC	364	347	329	312	295	277	266	260	254	248	241	235	229	223	217	211	205	199
	2023	TC	391	373	355	338	320	302	284	272	266	260	254	247	241	235	229	223	216	210
	2024	TC	419	401	383	364	346	328	310	292	279	273	266	260	254	247	241	234	228	222
	2025	TC	449	429	411	392	373	355	336	317	299	286	280	273	267	260	253	247	240	234
	2026	TC	482	460	440	421	402	383	364	345	325	306	293	287	280	273	266	260	253	246
	2027	TC	519	494	472	451	432	412	392	373	353	334	314	301	294	287	280	273	266	259
	2028	TC	560	532	507	484	463	442	422	402	382	362	342	322	308	301	294	287	280	273
	2029	TC	438	574	545	519	496	474	453	433	412	392	371	350	330	316	309	301	294	287

Station	Unit	Capacity	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
	2030	TC		449	588	559	532	508	486	465	444	423	401	380	359	338	324	316	309	302
	2031	TC			461	603	573	546	521	498	476	455	433	411	390	368	347	332	324	317
	2032	TC				472	618	587	559	534	511	488	466	444	422	400	377	355	340	332
	2033	TC					484	633	602	573	547	523	501	478	455	432	410	387	364	349
	2034	TC						496	649	617	588	561	536	513	490	466	443	420	396	373
	2035	TC							508	665	632	602	575	550	526	502	478	454	430	406
	2036	TC								521	682	648	617	589	564	539	515	490	466	441
	2037	TC									534	699	664	633	604	578	553	527	502	477
	2038	TC										547	717	681	648	619	592	566	541	515
	2039	TC											561	735	698	665	634	607	580	554
	2040	TC												575	753	715	681	650	622	595
	2011	GH	1,309	1,271	1,233	1,195	1,158	1,120	1,082	1,044	1,007	969	931	893	856	818	780	742	704	667
	2012	GH	1,380	1,341	1,303	1,264	1,225	1,187	1,148	1,109	1,070	1,032	993	954	916	877	838	800	761	722
	2013	GH	1,454	1,415	1,375	1,335	1,296	1,256	1,216	1,177	1,137	1,097	1,058	1,018	978	939	899	859	819	780
	2014	GH	1,531	1,491	1,450	1,409	1,369	1,328	1,287	1,247	1,206	1,165	1,125	1,084	1,043	1,003	962	921	881	840
	2015	GH	1,611	1,570	1,528	1,486	1,445	1,403	1,361	1,320	1,278	1,236	1,194	1,153	1,111	1,069	1,028	986	944	903
	2016	GH	1,694	1,652	1,609	1,566	1,523	1,481	1,438	1,395	1,353	1,310	1,267	1,224	1,182	1,139	1,096	1,053	1,011	968
	2017	GH	1,817	1,737	1,693	1,649	1,605	1,562	1,518	1,474	1,430	1,386	1,343	1,299	1,255	1,211	1,167	1,124	1,080	1,036
	2018	GH	1,982	1,862	1,780	1,735	1,690	1,645	1,601	1,556	1,511	1,466	1,421	1,376	1,331	1,286	1,241	1,197	1,152	1,107
	2019	GH	2,154	2,032	1,909	1,825	1,779	1,733	1,687	1,641	1,595	1,549	1,503	1,457	1,410	1,364	1,318	1,272	1,226	1,180
	2020	GH	2,334	2,208	2,082	1,957	1,870	1,823	1,776	1,729	1,682	1,634	1,587	1,540	1,493	1,446	1,399	1,351	1,304	1,257
	2021	GH	2,521	2,392	2,263	2,134	2,006	1,917	1,869	1,820	1,772	1,724	1,675	1,627	1,579	1,530	1,482	1,434	1,385	1,337
	2022	GH	2,716	2,584	2,452	2,320	2,188	2,056	1,965	1,915	1,866	1,816	1,767	1,717	1,668	1,618	1,569	1,519	1,469	1,420
	2023	GH	2,920	2,784	2,649	2,513	2,378	2,243	2,107	2,014	1,963	1,912	1,862	1,811	1,760	1,709	1,659	1,608	1,557	1,506
	2024	GH	3,131	2,993	2,854	2,715	2,576	2,437	2,299	2,160	2,064	2,012	1,960	1,908	1,856	1,804	1,752	1,700	1,648	1,596
	2025	GH	3,358	3,210	3,067	2,925	2,783	2,641	2,498	2,356	2,214	2,116	2,063	2,009	1,956	1,903	1,849	1,796	1,742	1,689
	2026	GH	3,609	3,442	3,290	3,144	2,998	2,852	2,707	2,561	2,415	2,269	2,169	2,114	2,060	2,005	1,950	1,895	1,841	1,786
	2027	GH	3,886	3,699	3,528	3,372	3,223	3,073	2,924	2,774	2,625	2,475	2,326	2,223	2,167	2,111	2,055	1,999	1,943	1,887
	2028	GH	4,193	3,983	3,791	3,617	3,456	3,303	3,150	2,997	2,844	2,690	2,537	2,384	2,279	2,221	2,164	2,106	2,049	1,991
	2029	GH	3,214	4,298	4,082	3,886	3,707	3,543	3,386	3,229	3,072	2,915	2,758	2,601	2,444	2,336	2,277	2,218	2,159	2,100
	2030	GH		3,295	4,406	4,184	3,983	3,800	3,631	3,470	3,310	3,149	2,988	2,827	2,666	2,505	2,394	2,334	2,273	2,213
	2031	GH			3,377	4,516	4,289	4,083	3,895	3,722	3,557	3,392	3,227	3,062	2,897	2,732	2,567	2,454	2,392	2,330
	2032	GH				3,462	4,629	4,396	4,185	3,992	3,815	3,646	3,477	3,308	3,139	2,970	2,801	2,632	2,515	2,452
	2033	GH					3,548	4,744	4,506	4,289	4,092	3,911	3,737	3,564	3,391	3,217	3,044	2,871	2,697	2,578
	2034	GH						3,637	4,863	4,619	4,397	4,194	4,008	3,831	3,653	3,475	3,298	3,120	2,942	2,765
	2035	GH							3,728	4,984	4,734	4,507	4,299	4,109	3,927	3,744	3,562	3,380	3,198	3,016
	2036	GH								3,821	5,109	4,852	4,619	4,406	4,211	4,025	3,838	3,651	3,465	3,278
	2037	GH									3,917	5,237	4,974	4,735	4,517	4,317	4,125	3,934	3,743	3,551
	2038	GH										4,014	5,368	5,098	4,853	4,629	4,425	4,228	4,032	3,836
	2039	GH											4,115	5,502	5,226	4,974	4,745	4,535	4,334	4,133
	2040	GH												4,218	5,639	5,356	5,099	4,864	4,649	4,443
	2011	BR	297	288	279	271	262	253	244	235	226	218	209	200	191	182	173	165	156	147
	2012	BR	313	304	295	286	277	268	259	250	241	232	223	214	205	196	187	178	169	160
	2013	BR	331	321	312	303	293	284	275	266	256	247	238	229	219	210	201	191	182	173
	2014	BR	348	339	329	320	310	301	291	282	272	263	253	244	234	225	215	206	196	187
	2015	BR	367	357	347	338	328	318	308	299	289	279	269	260	250	240	230	221	211	201
	2016	BR	386	376	366	356	346	336	326	316	306	296	286	276	266	256	246	236	226	216
	2017	BR	406	396	385	375	365	355	344	334	324	314	303	293	283	273	263	252	242	232
	2018	BR	436	416	406	395	385	374	364	353	343	332	322	311	301	290	280	269	259	248
	2019	BR	476	447	426	416	405	394	383	373	362	351	340	330	319	308	297	287	276	265
	2020	BR	519	488	458	437	426	415	404	393	382	371	360	349	338	327	316	305	294	283

Station	Unit	Capacity	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
	2021	BR	563	532	500	469	448	437	425	414	403	391	380	369	358	346	335	324	312	301
	2022	BR	609	577	545	513	481	459	448	436	424	413	401	390	378	367	355	343	332	320
	2023	BR	657	624	591	559	526	493	471	459	447	435	423	411	399	388	376	364	352	340
	2024	BR	707	673	640	606	573	539	505	482	470	458	446	434	422	409	397	385	373	361
	2025	BR	760	725	690	656	621	587	552	518	495	482	470	457	445	432	420	407	395	382
	2026	BR	818	779	743	708	672	637	602	566	531	507	494	481	469	456	443	430	417	405
	2027	BR	884	839	798	761	725	689	653	617	580	544	520	506	493	480	467	454	441	428
	2028	BR	957	906	860	818	781	743	706	669	632	595	558	533	519	506	492	479	465	452
	2029	BR	731	981	928	881	839	800	762	724	686	648	610	572	546	532	518	505	491	477
	2030	BR		749	1,005	952	903	860	820	781	742	703	664	625	586	559	545	531	517	503
	2031	BR			768	1,031	975	926	881	841	801	761	721	681	641	601	573	559	545	530
	2032	BR				787	1,056	1,000	949	903	862	821	780	739	698	657	616	588	573	558
	2033	BR					806	1,083	1,025	973	926	883	841	799	757	715	673	631	603	587
	2034	BR						827	1,110	1,050	997	949	905	862	819	776	733	690	647	618
	2035	BR							847	1,138	1.077	1,022	973	928	884	840	795	751	707	663
	2036	BR								868	1,166	1,104	1,048	997	951	906	861	815	770	725
	2037	BR									890	1,195	1,131	1,074	1,022	975	928	882	836	789
	2038	BR										912	1,225	1,160	1,101	1,047	999	952	904	857
	2039	BR											935	1,256	1,189	1,128	1,074	1,024	975	927
	2040	BR												959	1,287	1,218	1,156	1,100	1,050	1,000
	2011	GR	58	56	54	52	49	47	45	42	40	38	0	0	0	0	0	0	0	0
	2012	GR	62	60	58	55	53	51	48	46	44	41	39	0	0	0	0	0	0	0
	2013	GR	66	64	61	59	57	54	52	49	47	45	42	40	0	0	0	0	0	0
	2014	GR	70	68	65	63	61	58	56	53	51	48	46	43	41	0	0	0	0	0
	2015	GR	75	72	70	67	65	62	60	57	54	52	49	47	44	42	0	0	0	0
	2016	GR	79	77	74	71	69	66	64	61	58	56	53	51	48	45	43	0	0	0
	2017	GR	84	81	78	76	73	70	68	65	63	60	57	55	52	49	47	44	0	0
	2018	GR	90	86	83	80	78	75	72	70	67	64	61	59	56	53	50	48	45	0
	2019	GR	99	93	88	85	82	80	77	74	71	68	66	63	60	57	55	52	49	46
	2020	GR	108	102	95	90	87	84	82	79	76	73	70	67	64	62	59	56	53	50
	2021	GR	118	111	104	97	92	90	87	84	81	78	75	72	69	66	63	60	57	54
	2022	GR	128	121	114	107	100	95	92	89	86	83	80	77	74	71	68	65	62	59
	2023	GR	139	131	124	117	110	102	97	94	91	88	85	82	79	76	72	69	66	63
	2024	GR	150	142	135	127	120	112	105	100	96	93	90	87	84	81	77	74	71	68
	2025	GR	161	153	146	138	130	123	115	107	102	99	96	92	89	86	83	79	76	73
	2026	GR	174	165	157	149	141	134	126.	118	110	105	101	98	95	91	88	85	81	78
	2027	GR	188	178	169	161	153	145	137	129	121	113	107	104	100	97	94	90	87	83
	2028	GR	204	193	183	173	165	157	149	140	132	124	116	110	106	103	99	96	92	89
	2029	GR	146	209	197	187	178	169	161	152	144	135	127	119	113	109	105	102	98	95
	2030	GR		150	214	202	192	182	173	165	156	148	139	130	122	115	112	108	104	101
	2031	GR			154	219	207	197	187	178	169	160	151	142	133	125	118	115	111	107
	2032	GR				157	225	212	201	191	182	173	164	155	146	137	128	121	117	114
	2033	GR					161	230	218	206	196	187	177	168	159	150	140	131	124	120
	2034	GR						165	236	223	212	201	191	182	172	163	153	144	134	127
	2035	GR							169	242	229	217	206	196	186	177	167	157	147	138
	2036	GR								174	248	235	222	211	201	191	181	171	161	151
	2037	GR									178	254	240	228	217	206	196	186	175	165
	2038	GR										182	261	246	234	222	211	201	190	180
	2039	GR											187	267	253	239	228	217	206	195
	2040	GR												192	274	259	245	233	222	211
	2011	TY	58	56	53	51	48	46	43	41	0	0	0	0	0	0	0	0	0	0

Station	Unit	Capacity	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
	2012	TY	62	60	57	55	52	49	47	44	42	0	0	0	0	0	0	0	0	0
	2013	TY	66	64	61	59	56	53	51	48	46	43	0	0	0	0	0	0	0	0
	2014	TY	71	68	65	63	60	57	55	52	49	47	44	0	0	0	0	0	0	0
	2015	TY	75	72	70	67	64	61	59	56	53	51	48	45	0	0	0	0	0	0
	2016	TY	80	77	74	71	69	66	63	60	57	55	52	49	46	0	0	0	0	0
	2017	TY	85	82	79	76	73	70	67	65	62	59	56	53	50	47	0	0	0	0
	2018	TY	92	87	84	81	78	75	72	69	66	63	60	57	54	52	49	0	0	0
	2019	TY	101	94	89	86	83	80	77	74	71	68	65	62	59	56	53	50	0	0
	2020	TY	110	103	96	91	88	85	82	79	76	73	70	66	63	60	57	54	51	0
	2021	TY	120	113	106	99	93	90	87	84	81	78	74	71	68	65	62	59	55	52
	2022	TY	130	123	116	108	101	96	93	89	86	83	80	76	73	70	67	63	60	57
	2023	TY	141	134	126	119	111	104	98	95	92	88	85	82	78	75	72	68	65	62
	2024	TY	152	145	137	129	122	114	106	101	97	94	90	87	84	80	77	73	70	67
	2025	TY	164	156	148	140	133	125	117	109	103	100	96	93	89	86	82	79	75	72
	2026	TY	177	168	160	152	144	136	128	120	112	106	102	99	95	91	88	84	81	77
	2027	TY	192	182	172	164	156	148	139	131	123	114	108	105	101	97	94	90	86	83
	2028	TY	208	196	186	177	168	160	151	143	134	126	117	111	107	104	100	96	92	89
	2029	TY	146	213	201	191	181	172	164	155	146	138	129	120	114	110	106	102	98	95
	2030	TY		150	218	206	196	186	177	168	159	150	141	132	123	117	113	109	105	101
	2031	TY			154	224	212	201	190	181	172	163	154	145	135	126	120	116	112	107
	2032	TY				157	229	217	206	195	186	176	167	158	148	139	129	123	118	114
	2033	TY					161	235	222	211	200	190	181	171	161	152	142	133	126	121
	2034	TY						165	241	228	216	205	195	185	175	165	156	146	136	129
	2035	TY							169	247	234	221	210	200	190	180	170	160	149	139
	2036	TY								174	253	239	227	215	205	195	184	174	164	153
	2037	TY									178	259	245	233	221	210	199	189	178	168
	2038	TY										182	266	252	238	226	215	204	194	183
	2039	TY											187	273	258	244	232	221	210	198
	2040	TY												192	279	264	250	238	226	215

Station	Unit	Capacity	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059
BR	BR1	101	1,867	1,770	1,678	1,591	1,510	1,434	1,361	1,290	1,219	1,149	1,080	1,013	946
BR	BR2	167	3,087	2,926	2,774	2,631	2,496	2,371	2,251	2,132	2,015	1,900	1,787	1,675	1,564
BR	BR3	416	7,689	7,289	6,910	6,553	6,218	5,906	5,607	5,312	5,021	4,733	4,450	4,171	3,897
CR	CR4	155	1,421	1,269	1,125	988	859	738	623	511	402	297	194	95	0
CR	CR5	168	1,540	1,375	1,219	1,071	931	800	675	554	436	322	211	103	0
CR	CR6	240	2,200	1,965	1,741	1,529	1,330	1,143	965	792	623	459	301	148	0
GH	GH1	475	14,098	13,375	12,686	12,033	11,415	10,834	10,291	9,770	9,256	8,749	8,249	7,755	7,269
GH	GH2	484	14,365	13,628	12,927	12,261	11,631	11,039	10,486	9,956	9,432	8,915	8,405	7,902	7,407
GH	GH3	480	14,246	13,516	12,820	12,159	11,535	10,948	10,399	9,873	9,354	8,841	8,336	7,837	7,346
GH	GH4	479	14,217	13,488	12,793	12,134	11,511	10,925	10,378	9,853	9,334	8,823	8,318	7,821	7,331
GR	GR3	68	922	860	801	745	692	643	595	549	504	459	415	373	331
GR	GR4	95	1,288	1,201	1,118	1,040	967	898	832	767	704	641	580	521	462
MC	MC1	303	7,053	6,531	6,033	5,559	5,110	4,687	4,290	3,910	3,538	3,173	2,817	2,468	2,128
MC	MC2	301	7,007	6,488	5,993	5,523	5,077	4,656	4,262	3,884	3,515	3,152	2,798	2,452	2,114
MC	MC3	391	9,102	8,428	7,785	7,174	6,595	6,048	5,536	5,046	4,565	4,095	3,635	3,185	2,746
MC	MC4	477	11,104	10,282	9,498	8,752	8,045	7,379	6,754	6,156	5,570	4,996	4,434	3,886	3,350
TC	TC1	383	3,222	3,101	2,986	2,878	2,777	2,652	2,536	2,425	2,315	2,206	2,099	1,993	1,888
TC	TC2	549	4,618	4,445	4,280	4,125	3,980	3,802	3,636	3,476	3,319	3,163	3,009	2,857	2,706
TY	TY3	71	2,117	1,962	1,814	1,675	1,543	1,420	1,303	1,187	1,074	964	855	749	646

2.50%

2011	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2012	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2013	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2014	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2015	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2016	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2017	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2018	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2019	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2020	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2021	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2022	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2023	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2024	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2025	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2026	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2027	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2028	CR	0	0	0	0	0	0	0	0	0	0	0	0	0
2029	CR	264	0	0	0	0	0	0	0	0	0	0	0	0
2030	CR	287	271	0	0	0	0	0	0	0	0	0	0	0
2031	CR	311	294	278	0	0	0	0	0	0	0	0	0	0
2032	CR	336	319	302	285	0	0	0	0	0	0	0	0	0
2033	CR	363	345	327	309	292	0	0	0	0	0	0	0	0
2034	CR	390	372	353	335	317	299	0	0	0	0	0	0	0
2035	CR	418	400	381	362	344	325	306	0	0	0	0	0	0
2036	CR	456	429	410	390	371	352	333	314	0	0	0	0	0
2037	CR	505	468	439	420	400	381	361	342	322	0	0	0	0
2038	CR	556	518	480	450	430	410	390	370	350	330	0	0	0

Station	Unit	Capacity	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059
	2039	CR	609	570	531	492	462	441	421	400	379	359	338	0	0
	2040	CR	665	624	584	544	504	473	452	431	410	389	368	347	0
	2011	MC	0	0	0	0	0	0	0	0	0	0	0	0	0
	2012	MC	0	0	0	0	0	0	0	0	0	0	0	0	0
	2013	MC	0	0	0	0	0	0	0	0	0	0	0	0	0
	2014	MC	0	0	0	0	0	0	0	0	0	0	0	0	0
	2015	MC	0	0	0	0	0	0	0	0	0	0	0	0	0
	2016	MC	0	0	0	0	0	0	0	0	0	0	0	0	0
	2017	MC	0	0	0	0	0	0	0	0	0	0	0	0	0
	2018	MC	0	0	0	0	0	0	0	0	0	0	0	0	0
	2019	MC	0	0	0	0	0	0	0	0	0	0	0	0	0
	2020	MC	0	0	0	0	0	0	0	0	0	0	0	0	0
	2021	MC	0	0	0	0	0	0	0	0	0	0	0	0	0
	2022	MC	858	0	0	0	0	0	0	0	0	0	0	0	0
	2023	MC	932	879	0	0	0	0	0	0	0	0	0	0	0
	2024	MC	1,010	956	901	0	0	0	0	0	0	0	0	0	0
	2025	MC	1,091	1,035	980	924	0	0	0	0	0	0	0	0	0
	2026	MC	1,176	1,119	1,061	1,004	947	0	0	0	0	0	0	0	0
	2027	MC	1,264	1,205	1,147	1,088	1,029	970	0	0	0	0	0	0	0
	2028	MC	1,356	1,296	1,235	1,175	1,115	1,055	995	0	0	0	0	0	0
	2029	MC	1,451	1,390	1,328	1,266	1,205	1,143	1,081	1,020	0	0	0	0	0
	2030	MC	1,551	1,488	1,424	1,361	1,298	1,235	1,172	1,108	1,045	0	0	0	0
	2031	MC	1,655	1,590	1,525	1,460	1,395	1,330	1,266	1,201	1,136	1,071	0	0	0
	2032	MC	1,762	1,696	1,629	1,563	1,497	1,430	1,364	1,297	1,231	1,164	1,098	0	0
	2033	MC	1,874	1,806	1,738	1,670	1,602	1,534	1,466	1,398	1,330	1,262	1,194	1,125	0
	2034	MC	1,991	1,921	1,852	1,782	1,712	1,642	1,572	1,503	1,433	1,363	1,293	1,223	1,154
	2035	MC	2,154	2,041	1,969	1,898	1,826	1,755	1,683	1,612	1,540	1,469	1,397	1,325	1,254
	2036	MC	2,366	2,208	2,092	2,019	1,945	1,872	1,799	1,725	1,652	1,579	1,505	1,432	1,359
	2037	MC	2,587	2,425	2,263	2,144	2,069	1,994	1,919	1,844	1,768	1,693	1,618	1,543	1,468
	2038	MC	2,818	2,652	2,486	2,319	2,198	2,121	2,044	1,967	1,890	1,813	1,736	1,659	1,581
	2039	MC	3,059	2,888	2,718	2,548	2,377	2,253	2,174	2,095	2,016	1,937	1,858	1,779	1,700
	2040	MC	3,310	3,135	2,961	2,786	2,611	2,437	2,309	2,228	2,147	2,066	1,985	1,904	1,823
	2011	TC	96	91	87	82	77	0	0	0	0	0	0	0	0
	2012	TC	103	98	94	89	84	79	0	0	0	0	0	0	0
	2013	TC	111	106	101	96	91	86	81	0	0	0	0	0	0
	2014	TC	118	113	108	103	98	93	88	83	0	0	0	0	0
	2015	TC	126	121	116	111	106	101	96	91	85	0	0	0	0
	2016	TC	135	130	124	119	114	109	103	98	93	88	0	0	0
	2017	TC	144	138	133	127	122	117	111	106	101	95	90	0	0
	2018	TC	153	147	142	136	131	125	120	114	109	103	98	92	0
	2019	TC	162	156	151	145	139	134	128	123	117	111	106	100	94
	2020	TC	172	166	160	155	149	143	137	131	126	120	114	108	102
	2021	TC	182	176	170	164	158	152	147	141	135	129	123	117	111
	2022	TC	193	187	181	175	168	162	156	150	144	138	132	126	120
	2023	TC	204	198	191	185	179	173	166	160	154	148	141	135	129
	2024	TC	215	209	203	196	190	183	177	171	164	158	151	145	139
	2025	TC	227	221	214	208	201	194	188	181	175	168	162	155	149
	2026	TC	240	233	226	219	213	206	199	193	186	179	173	166	159
	2027	TC	253	246	239	232	225	218	211	204	197	191	184	177	170
	2028	TC	266	259	252	245	238	231	224	217	209	202	195	188	181
	2029	TC	280	273	265	258	251	244	236	229	222	215	207	200	193

Station	Unit	Capacity	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059
	2030	TC	294	287	279	272	265	257	250	242	235	227	220	213	205
	2031	TC	309	302	294	286	279	271	264	256	248	241	233	226	218
	2032	TC	325	317	309	301	293	286	278	270	262	255	247	239	231
	2033	TC	341	333	325	317	309	301	293	285	277	269	261	253	245
	2034	TC	357	349	341	333	325	317	308	300	292	284	276	267	259
	2035	TC	382	366	358	350	341	333	324	316	308	299	291	283	274
	2036	TC	417	392	376	367	358	350	341	333	324	315	307	298	290
	2037	TC	452	427	402	385	376	367	358	350	341	332	323	314	306
	2038	TC	489	463	438	412	395	385	376	367	358	349	340	331	322
	2039	TC	528	501	475	449	422	404	395	386	377	367	358	349	340
	2040	TC	568	541	514	487	460	433	414	405	396	386	377	367	358
	2011	GH	629	0	0	0	0	0	0	0	0	0	0	0	0
	2012	GH	683	645	0	0	0	0	0	0	0	0	0	0	0
	2013	GH	740	700	661	0	0	0	0	0	0	0	0	0	0
	2014	GH	799	759	718	677	0	0	0	0	0	0	0	0	0
	2015	GH	861	819	778	736	694	0	0	0	0	0	0	0	0
	2016	GH	925	882	840	797	754	712	0	0	0	0	0	0	0
	2017	GH	992	948	905	861	817	773	729	0	0	0	0	0	0
	2018	GH	1,062	1,017	972	927	882	837	792	748	0	0	0	0	0
	2019	GH	1,134	1,088	1,042	996	950	904	858	812	766	0	0	0	0
	2020	GH	1,210	1,163	1,116	1,068	1,021	974	927	880	833	785	0	0	0
	2021	GH	1,289	1,240	1,192	1,143	1,095	1,047	998	950	902	853	805	0	0
	2022	GH	1,370	1,321	1,271	1,222	1,172	1,123	1,073	1,023	974	924	875	825	0
	2023	GH	1,455	1,405	1,354	1,303	1,252	1,201	1,151	1,100	1,049	998	947	897	846
	2024	GH	1,544	1,492	1,440	1,388	1,336	1,283	1,231	1,179	1,127	1,075	1,023	971	919
	2025	GH	1,636	1,582	1,529	1,476	1,422	1,369	1,316	1,262	1,209	1,155	1,102	1,049	995
	2026	GH	1,731	1,677	1,622	1,567	1,513	1,458	1,403	1,348	1,294	1,239	1,184	1,130	1,075
	2027	GH	1,831	1,775	1,719	1,662	1,606	1,550	1,494	1,438	1,382	1,326	1,270	1,214	1,158
	2028	GH	1,934	1,876	1,819	1,762	1,704	1,647	1,589	1,532	1,474	1,417	1,359	1,302	1,244
	2029	GH	2,041	1,982	1,923	1,864	1,806	1,747	1,688	1,629	1,570	1,511	1,452	1,393	1,334
	2030	GH	2,153	2,092	2,032	1,971	1,911	1,851	1,790	1,730	1,670	1,609	1,549	1,488	1,428
	2031	GH	2,268	2,206	2,144	2,083	2,021	1,959	1,897	1,835	1,773	1,711	1,649	1,588	1,526
	2032	GH	2,388	2,325	2,262	2,198	2,135	2,071	2,008	1,944	1,881	1,818	1,754	1,691	1,627
	2033	GH	2,513	2,448	2,383	2,318	2,253	2,188	2,123	2,058	1,993	1,928	1,863	1,798	1,733
	2034	GH	2,643	2,576	2,509	2,443	2,376	2,309	2,243	2,176	2,109	2,043	1,976	1,910	1,843
	2035	GH	2,834	2,709	2,640	2,572	2,504	2,435	2,367	2,299	2,231	2,162	2,094	2,026	1,957
	2036	GH	3,091	2,905	2,776	2,706	2,636	2,566	2,496	2,426	2,356	2,286	2,216	2,146	2,076
	2037	GH	3,360	3,169	2,977	2,846	2,774	2,702	2,630	2,559	2,487	2,415	2,343	2,272	2,200
	2038	GH	3,640	3,444	3,248	3,052	2,917	2,843	2,770	2,696	2,623	2,549	2,476	2,402	2,328
	2039	GH	3,932	3,731	3,530	3,329	3,128	2,990	2,914	2,839	2,764	2,688	2,613	2,537	2,462
	2040	GH	4,236	4,030	3,824	3,618	3,412	3,206	3,065	2,987	2,910	2,833	2,755	2,678	2,601
	2011	BR	0	0	0	0	0	0	0	0	0	0	0	0	0
	2012	BR	151	0	0	0	0	0	0	0	0	0	0	0	0
	2013	BR	164	154	0	0	0	0	0	0	0	0	0	0	0
	2014	BR	177	168	158	0	0	0	0	0	0	0	0	0	0
	2015	BR	191	182	172	162	0	0	0	0	0	0	0	0	0
	2016	BR	206	196	186	176	166	0	0	0	0	0	0	0	0
	2017	BR	222	211	201	191	181	170	0	0	0	0	0	0	0
	2018	BR	238	227	217	206	196	185	175	0	0	0	0	0	0
	2019	BR	254	244	233	222	211	201	190	179	0	0	0	0	0
	2020	BR	272	261	250	239	228	217	206	195	183	0	0	0	0

Station	Unit	Capacity	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059
	2021	BR	290	278	267	256	245	233	222	211	199	188	0	0	0
	2022	BR	309	297	285	274	262	251	239	228	216	204	193	0	0
	2023	BR	328	316	304	293	281	269	257	245	233	221	209	198	0
	2024	BR	349	336	324	312	300	288	276	263	251	239	227	215	203
	2025	BR	370	357	345	332	320	307	295	282	270	257	245	233	220
	2026	BR	392	379	366	353	341	328	315	302	290	277	264	251	238
	2027	BR	415	402	388	375	362	349	336	323	310	297	284	271	257
	2028	BR	438	425	412	398	385	371	358	344	331	318	304	291	277
	2029	BR	463	449	436	422	408	394	381	367	353	339	326	312	298
	2030	BR	489	475	461	447	432	418	404	390	376	362	348	334	320
	2031	BR	516	501	487	472	458	443	429	414	400	385	371	356	342
	2032	BR	543	529	514	499	484	469	454	440	425	410	395	380	365
	2033	BR	572	557	542	527	511	496	481	466	451	435	420	405	390
	2034	BR	602	586	571	555	540	524	509	493	477	462	446	431	415
	2035	BR	633	617	601	585	569	553	537	521	505	489	473	457	441
	2036	BR	680	649	632	616	600	583	567	551	534	518	502	485	469
	2037	BR	743	697	665	648	632	615	598	581	564	548	531	514	497
	2038	BR	809	762	714	682	664	647	630	613	596	579	561	544	527
	2039	BR	878	829	781	732	699	681	663	646	628	611	593	575	558
	2040	BR	950	900	850	800	750	716	698	680	662	644	626	608	590
	2011	GR	0	0	0	0	0	0	0	0	0	0	0	0	0
	2012	GR	0	0	0	0	0	0	0	0	0	0	0	0	0
	2013	GR	0	0	0	0	0	0	0	0	0	0	0	0	0
	2014	GR	0	0	0	0	0	0	0	0	0	0	0	0	0
	2015	GR	0	0	0	0	0	0	0	0	0	0	0	0	0
	2016	GR	0	0	0	0	0	0	0	0	0	0	0	0	0
	2017	GR	0	0	0	0	0	0	0	0	0	0	0	0	0
	2018	GR	0	0	0	0	0	0	0	0	0	0	0	0	0
	2019	GR	0	0	0	0	0	0	0	0	0	0	0	0	0
	2020	GR	47	0	0	0	0	0	0	0	0	0	0	0	0
	2021	GR	51	48	0	0	0	0	0	0	0	0	0	0	0
	2022	GR	56	53	50	0	0	0	0	0	0	0	0	0	0
	2023	GR	60	57	54	51	0	0	0	0	0	0	0	0	0
	2024	GR	65	62	59	55	52	0	0	0	0	0	0	0	0
	2025	GR	70	66	63	60	57	54	0	0	0	0	0	0	0
	2026	GR	75	71	68	65	61	58	55	0	0	0	0	0	0
	2027	GR	80	77	73	70	66	63	60	56	0	0	0	0	0
	2028	GR	86	82	79	75	72	68	65	61	58	0	0	0	0
	2029	GR	91	88	84	81	77	73	70	66	63	59	0	0	0
	2030	GR	97	93	90	86	83	79	75	72	68	64	61	0	0
	2031	GR	103	100	96	92	88	85	81	77	73	70	66	62	0
	2032	GR	110	106	102	98	94	91	87	83	79	75	71	67	64
	2033	GR	116	113	109	105	101	97	93	89	85	81	77	73	69
	2034	GR	123	119	115	111	107	103	99	95	91	87	83	79	75
	2035	GR	131	126	122	118	114	110	106	102	98	93	89	85	81
	2036	GR	141	134	130	125	121	117	113	108	104	100	96	91	87
	2037	GR	155	145	137	133	129	124	120	115	111	107	102	98	94
	2038	GR	169	159	148	141	136	132	127	123	118	114	109	105	101
	2039	GR	184	173	163	152	144	140	135	130	126	121	117	112	108
	2040	GR	200	189	178	167	156	148	143	138	134	129	124	120	115
	2011	TY	0	0	0	0	0	0	0	0	0	0	0	0	0

Station	Unit	Capacity	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059
	2012	TY	0	0	0	0	0	0	0	0	0	0	0	0	0
	2013	TY	0	0	0	0	0	0	0	0	0	0	0	0	0
	2014	TY	0	0	0	0	0	0	0	0	0	0	0	0	0
	2015	TY	0	0	0	0	0	0	0	0	0	0	0	0	0
	2016	TY	0	0	0	0	0	0	0	0	0	0	0	0	0
	2017	TY	0	0	0	0	0	0	0	0	0	0	0	0	0
	2018	TY	0	0	0	0	0	0	0	0	0	0	0	0	0
	2019	TY	0	0	0	0	0	0	0	0	0	0	0	0	0
	2020	TY	0	0	0	0	0	0	0	0	0	0	0	0	0
	2021	TY	0	0	0	0	0	0	0	0	0	0	0	0	0
	2022	TY	54	0	0	0	0	0	0	0	0	0	0	0	0
	2023	TY	58	55	0	0	0	0	0	0	0	0	0	0	0
	2024	TY	63	60	56	0	0	0	0	0	0	0	0	0	0
	2025	TY	68	65	61	58	0	0	0	0	0	0	0	0	0
	2026	TY	73	70	66	63	59	0	0	0	0	0	0	0	0
	2027	TY	79	75	72	68	64	61	0	0	0	0	0	0	0
	2028	TY	85	81	77	73	70	66	62	0	0	0	0	0	0
	2029	TY	91	87	83	79	75	71	68	64	0	0	0	0	0
	2030	TY	97	93	89	85	81	77	73	69	65	0	0	0	0
	2031	TY	103	99	95	91	87	83	79	75	71	67	0	0	0
	2032	TY	110	106	102	98	94	89	85	81	77	73	69	0	0
	2033	TY	117	113	109	104	100	96	92	87	83	79	75	70	0
	2034	TY	124	120	116	111	107	103	98	94	90	85	81	76	72
	2035	TY	132	128	123	119	114	110	105	101	96	92	87	83	78
	2036	TY	143	135	131	126	122	117	112	108	103	99	94	89	85
	2037	TY	157	146	139	134	129	125	120	115	111	106	101	96	92
	2038	TY	172	161	150	142	137	133	128	123	118	113	108	104	99
	2039	TY	187	176	165	154	146	141	136	131	126	121	116	111	106
	2040	TY	203	192	180	169	158	149	144	139	134	129	124	119	114

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Station	Unit	Capacity	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
BR	BR1	101	0	0	0	0	0	441	454	590	616	785	787
BR	BR2	167	0	0	0	0	0	729	751	975	1,018	1,299	1,301
BR	BR3	416	0	0	0	0	0	1,816	1,870	2,430	2,536	3,235	3,242
CR	CR4	155	258	840	1,124	1,095	1,216	1,960	1,949	1,644	1,927	2,572	2,560
CR	CR5	168	279	910	1,219	1,187	1,318	2,124	2,112	1,782	2,089	2,788	2,774
CR	CR6	240	399	1,300	1,741	1,696	1,882	5,221	5,152	4,566	4,899	5,799	5,682
GH	GH1	475	0	0	0	0	0	5,620	5,988	6,566	7,371	8,085	8,761
GH	GH2	484	0	0	0	0	0	5,727	6,101	6,691	7,510	8,238	8,927
GH	GH3	480	0	0	0	0	0	5,680	6,051	6,635	7,448	8,170	8,854
GH	GH4	479	0	0	0	0	0	5,668	6,038	6,622	7,433	8,153	8,835
GR	GR3	68											
GR	GR4	95											
MC	MC1	303											
MC	MC2	301											
MC	MC3	391											
MC	MC4	477											
TC	TC1	383	0	0	0	0	0	1,965	2,066	2,172	2,216	2,260	2,305
TC	TC2	549	0	0	0	0	0	2,817	2,961	3,114	3,176	3,240	3,304
TY	TY3	71											

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
BR Landfill Phase 2 Savings	0	0	0	0	0	0	0	828	908	1,960	1,870
BR Landfill Phase 3 Savings	0	0	0	0	0	0	0	0	0	0	0
BR Landfill O&M Savings	0	0	0	0	0	2,985	3,075	3,167	3,262	3,360	3,461
CR Landfill Capital Savings	936	3,049	4,083	3,979	4,416	4,938	4,772	3,579	4,464	6,617	6,353
CR Landfill O&M Savings	0	0	0	0	0	2,181	2,307	2,393	2,537	2,726	2,944
CR6 Stator Rewind Savings	0	0	0	0	0	2,187	2,135	2,020	1,914	1,816	1,719
GH Landfill Capital Savings	0	0	0	0	0	61	188	1,083	2,805	4,044	4,399
GH Landfill O&M Savings	0	0	0	0	0	22,633	23,991	25,431	26,957	28,601	30,979
TC Landfill Capital Savings	0	0	0	0	0	0	0	0	0	0	0
TC Landfill O&M Savings	0	0	0	0	0	4,782	5,027	5,286	5,392	5,500	5,610

Station	Unit	Capacity	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
BR	BR1	101	789	1,035	1,054	1,357	1,337	1,319	1,301	1,285	1,267	1,122	410
BR	BR2	167	1,305	1,711	1,743	2,245	2,211	2,180	2,151	2,124	2,095	1,855	678
BR	BR3	416	3,252	4,261	4,342	5,591	5,508	5,431	5,359	5,291	5,219	4,620	1,688
CR	CR4	155	2,096	2,059	2,073	1,531	1,768	1,810	1,869	1,932	2,000	1,861	1,810
CR	CR5	168	2,272	2,232	2,247	1,659	1,916	1,962	2,025	2,094	2,168	2,017	1,962
CR	CR6	240	4,867	4,712	4,637	3,700	3,969	3,960	4,000	4,047	4,101	3,833	3,704
GH	GH1	475	9,219	9,707	10,790	12,508	14,281	15,439	15,604	16,273	16,860	17,332	17,856
GH	GH2	484	9,394	9,891	10,994	12,745	14,551	15,732	15,900	16,581	17,180	17,660	18,195
GH	GH3	480	9,316	9,809	10,904	12,640	14,431	15,602	15,769	16,444	17,038	17,514	18,044
GH	GH4	479	9,297	9,789	10,881	12,614	14,401	15,569	15,736	16,410	17,002	17,478	18,007
GR	GR3	68											
GR	GR4	95											
MC	MC1	303											
MC	MC2	301											
MC	MC3	391											
MC	MC4	477											
TC	TC1	383	2,351	2,398	2,446	2,495	2,545	2,596	2,648	5,363	8,239	8,294	12,354
TC	TC2	549	3,371	3,438	3,507	3,577	3,648	3,721	3,796	7,687	11,809	11,888	17,709
TY	TY3	71											

	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
BR Landfill Phase 2 Savings	1,782	1,697	1,613	1,531	1,451	1,372	1,294	1,215	1,123	156	138
BR Landfill Phase 3 Savings	0	1,638	1,745	3,767	3,594	3,426	3,261	3,101	2,943	2,789	2,638
BR Landfill O&M Savings	3,564	3,671	3,781	3,895	4,012	4,132	4,256	4,384	4,515	4,651	
CR Landfill Capital Savings	4,493	4,170	4,023	1,844	2,496	2,513	2,483	2,455	2,429	1,631	1,345
CR Landfill O&M Savings	3,121	3,308	3,507	3,717	3,925	4,061	4,305	4,563	4,837	5,128	5,230
CR6 Stator Rewind Savings	1,621	1,524	1,427	1,329	1,232	1,158	1,106	1,055	1,004	952	901
GH Landfill Capital Savings	4,388	4,387	6,672	11,397	16,206	18,397	18,341	18,358	17,892	16,784	15,709
GH Landfill O&M Savings	32,838	34,808	36,897	39,110	41,457	43,944	44,668	47,348	50,189	53,201	56,393
TC Landfill Capital Savings	0	0	0	0	0	0	0	6,478	13,344	13,344	23,088
TC Landfill O&M Savings	5,722	5,836	5,953	6,072	6,194	6,318	6,444	6,573	6,704	6,838	6,975

Station	Unit	Capacity	2033	2034	2035	2036	2037	2038	2039	2040
BR	BR1	101	385	360	331	54	46	38	30	23
BR	BR2	167	636	595	547	89	76	63	50	39
BR	BR3	416	1,585	1,482	1,363	222	189	157	124	97
CR	CR4	155	1,778	1,748	1,719	1,692	1,708	1,727	1,747	1,771
CR	CR5	168	1,927	1,895	1,864	1,834	1,851	1,872	1,894	1,919
CR	CR6	240	3,602	2,777	2,662	2,620	2,645	2,674	2,705	2,742
GH	GH1	475	18,548	19,372	20,254	21,186	21,692	2,492	1,854	1,700
GH	GH2	484	18,899	19,739	20,637	21,587	22,103	2,539	1,889	1,733
GH	GH3	480	18,743	19,576	20,467	21,409	21,921	2,518	1,874	1,718
GH	GH4	479	18,704	19,535	20,424	21,364	21,875	2,513	1,870	1,715
GR	GR3	68								
GR	GR4	95								
MC	MC1	303								
MC	MC2	301								
MC	MC3	391								
MC	MC4	477								
TC	TC1	383	12,003	11,666	11,343	11,031	10,731	10,442	10,162	9,886
TC	TC2	549	17,206	16,723	16,259	15,812	15,382	14,967	14,567	14,170
TY	TY3	71								

	2033	2034	2035	2036	2037	2038	2039	2040
BR Landfill Phase 2 Savings	120	101	83	64	46	28	9	0
BR Landfill Phase 3 Savings	2,487	2,336	2,158	301	265	230	194	159
BR Landfill O&M Savings								
CR Landfill Capital Savings	1,123	908	695	485	430	384	338	303
CR Landfill O&M Savings	5,335	5,441	5,550	5,661	5,774	5,890	6,008	6,128
CR6 Stator Rewind Savings	850	70	0	0	0	0	0	0
GH Landfill Capital Savings	15,118	14,860	14,617	14,352	12,126	9,906	7,329	6,705
GH Landfill O&M Savings	59,776	63,363	67,165	71,194	75,466	155	158	161
TC Landfill Capital Savings	22,094	21,132	20,199	19,293	18,412	17,554	16,717	15,883
TC Landfill O&M Savings	7,115	7,257	7,402	7,550	7,701	7,855	8,012	8,172

$000

Station	Unit	Capacity	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
BR	BR1	101	0	0	0	553	743	703	668	635	606	577	548	519	491	462	433	413	403	393
BR	BR2	167	0	0	0	915	1,228	1,163	1,104	1,050	1,002	954	907	859	811	764	716	684	666	649
BR	BR3	416	0	0	0	2,279	3,060	2,897	2,749	2,616	2,496	2,377	2,258	2,140	2,021	1,902	1,784	1,703	1,660	1,617
CR	CR4	155	0	0	0	980	1,582	1,494	1,413	1,339	1,269	1,201	1,132	1,064	996	927	859	806	770	735
CR	CR5	168	0	0	0	1,062	1,715	1,619	1,532	1,451	1,376	1,302	1,227	1,153	1,079	1,005	931	874	835	796
CR	CR6	240	0	0	0	1,518	2,449	2,313	2,188	2,073	1,966	1,860	1,754	1,647	1,541	1,435	1,329	1,249	1,193	1,137
GH	GH1	475	0	0	0	1,462	1,954	1,856	1,767	1,686	1,611	1,540	1,468	1,397	1,325	1,254	1,183	1,111	1,062	1,035
GH	GH2	484	0	0	0	1,489	1,991	1,891	1,800	1,718	1,642	1,569	1,496	1,423	1,350	1,278	1,205	1,132	1,082	1,055
GH	GH3	480	0	0	0	1,477	1,975	1,876	1,786	1,703	1,628	1,556	1,484	1,411	1,339	1,267	1,195	1,123	1,073	1,046
GH	GH4	479	0	0	0	1,474	1,971	1,872	1,782	1,700	1,625	1,553	1,481	1,409	1,337	1,265	1,193	1,121	1,071	1,044
GR	GR3	68	0	0	0	586	837	792	751	713	679	645	611	577	544	510	476	452	438	423
GR	GR4	95	0	0	0	819	1,169	1,106	1,049	996	948	901	854	807	759	712	665	631	611	591
MC	MC1	303	0	0	0	1,215	1,774	1,682	1,598	1,521	1,449	1,380	1,311	1,242	1,173	1,103	1,034	965	915	882
MC	MC2	301	0	0	0	1,207	1,762	1,671	1,588	1,511	1,440	1,371	1,302	1,234	1,165	1,096	1,027	959	908	877
MC	MC3	391	0	0	0	1,568	2,289	2,171	2,063	1,963	1,870	1,781	1,692	1,602	1,513	1,424	1,335	1,245	1,180	1,139
MC	MC4	477	0	0	0	1,913	2,792	2,648	2,516	2,394	2,281	2,172	2,064	1,955	1,846	1,737	1,628	1,519	1,440	1,389
TC	TC1	383	0	0	0	770	1,008	958	912	871	833	797	760	724	688	652	616	579	555	542
TC	TC2	549	0	0	0	1,104	1,445	1,373	1,307	1,248	1,194	1,142	1,090	1,038	986	934	882	830	795	777
TY	TY3	71	0	0	0	586	837	792	751	713	679	645	611	577	544	510	476	452	438	423
		BRWATER	0	0	0	3,747	5,032	4,763	4,521	4,302	4,104	3,908	3,713	3,518	3,323	3,128	2,933	2,800	2,729	2,659
		CRWATER	0	0	0	3,560	5,746	5,427	5,134	4,863	4,611	4,362	4,113	3,865	3,616	3,367	3,118	2,929	2,798	2,668
		MCWATER	0	0	0	5,902	8,617	8,173	7,765	7,389	7,040	6,704	6,368	6,032	5,696	5,361	5,025	4,689	4,443	4,287
		TCWATER	0	0	0	1,874	2,453	2,331	2,220	2,119	2,026	1,938	1,850	1,762	1,674	1,586	1,498	1,410	1,350	1,319
		GHWATER	0	0	0	5,902	7,892	7,495	7,135	6,806	6,505	6,217	5,928	5,640	5,352	5,063	4,775	4,487	4,288	4,180
		GRWATER	0	0	0	1,405	2,006	1,898	1,799	1,709	1,627	1,546	1,465	1,384	1,303	1,222	1,141	1,083	1,049	1,015

Station	Unit	Capacity	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
BR	BR1	101	382	372	361	351	340	330	320	309	299	288	278	267	257	247	236	226	215	205
BR	BR2	167	632	615	597	580	563	546	528	511	494	477	459	442	425	408	390	373	356	339
BR	BR3	416	1,574	1,531	1,488	1,445	1,402	1,359	1,316	1,273	1,230	1,187	1,144	1,101	1,058	1,016	973	930	887	844
CR	CR4	155	699	663	627	591	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR5	168	757	718	679	640	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR6	240	1,082	1,026	970	915	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GH	GH1	475	1,008	982	955	928	901	875	848	821	794	767	741	714	687	660	634	607	580	553
GH	GH2	484	1,028	1,000	973	946	918	891	864	837	809	782	755	727	700	673	646	618	591	564
GH	GH3	480	1,019	992	965	938	911	884	857	830	803	776	748	721	694	667	640	613	586	559
GH	GH4	479	1,017	990	963	936	909	882	855	828	801	774	747	720	693	666	639	612	585	558
GR	GR3	68	409	395	380	366	352	337	323	309	294	280	266	251	237	0	0	0	0	0
GR	GR4	95	571	551	531	511	491	471	451	431	411	391	371	351	331	0	0	0	0	0
MC	MC1	303	850	818	786	754	722	690	658	626	594	562	530	0	0	0	0	0	0	0
MC	MC2	301	845	813	781	749	717	686	654	622	590	558	526	0	0	0	0	0	0	0
MC	MC3	391	1,097	1,056	1,015	973	932	891	849	808	766	725	684	0	0	0	0	0	0	0
MC	MC4	477	1,339	1,288	1,238	1,187	1,137	1,086	1,036	986	935	885	834	0	0	0	0	0	0	0
TC	TC1	383	529	517	504	491	479	466	453	441	428	415	403	390	377	364	352	339	326	314
TC	TC2	549	759	741	723	704	686	668	650	632	613	595	577	559	541	522	504	486	468	450
TY	TY3	71	409	395	380	366	352	337	323	309	294	280	266	251	237	0	0	0	0	0
		BRWATER	2,588	2,517	2,447	2,376	2,305	2,235	2,164	2,094	2,023	1,952	1,882	1,811	1,740	1,670	1,599	1,529	1,458	1,387
		CRWATER	2,537	2,407	2,277	2,146	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		MCWATER	4,131	3,976	3,820	3,664	3,508	3,353	3,197	3,041	2,886	2,730	2,574	0	0	0	0	0	0	0
		TCWATER	1,288	1,258	1,227	1,196	1,165	1,134	1,103	1,072	1,041	1,010	979	949	918	887	856	825	794	763
		GHWATER	4,072	3,964	3,856	3,748	3,640	3,531	3,423	3,315	3,207	3,099	2,991	2,883	2,774	2,666	2,558	2,450	2,342	2,234
		GRWATER	980	946	912	877	843	809	774	740	706	671	637	603	568	0	0	0	0	0

Station	Unit	Capacity	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059
BR	BR1	101	194	184	174	0	0	0	0	0	0	0	0	0	0
BR	BR2	167	321	304	287	0	0	0	0	0	0	0	0	0	0
BR	BR3	416	801	758	715	0	0	0	0	0	0	0	0	0	0
CR	CR4	155	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR5	168	0	0	0	0	0	0	0	0	0	0	0	0	0
CR	CR6	240	0	0	0	0	0	0	0	0	0	0	0	0	0
GH	GH1	475	526	500	473	446	0	0	0	0	0	0	0	0	0
GH	GH2	484	536	509	482	454	0	0	0	0	0	0	0	0	0
GH	GH3	480	532	505	478	451	0	0	0	0	0	0	0	0	0
GH	GH4	479	531	504	477	450	0	0	0	0	0	0	0	0	0
GR	GR3	68	0	0	0	0	0	0	0	0	0	0	0	0	0
GR	GR4	95	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC1	303	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC2	301	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC3	391	0	0	0	0	0	0	0	0	0	0	0	0	0
MC	MC4	477	0	0	0	0	0	0	0	0	0	0	0	0	0
TC	TC1	383	301	288	276	263	250	237	225	212	0	0	0	0	0
TC	TC2	549	431	413	395	377	359	340	322	304	0	0	0	0	0
TY	TY3	71	0	0	0	0	0	0	0	0	0	0	0	0	0
		BRWATER	1,317	1,246	1,175	0	0	0	0	0	0	0	0	0	0
		CRWATER	0	0	0	0	0	0	0	0	0	0	0	0	0
		MCWATER	0	0	0	0	0	0	0	0	0	0	0	0	0
		TCWATER	732	701	670	640	609	578	547	516	0	0	0	0	0
		GHWATER	2,125	2,017	1,909	1,801	0	0	0	0	0	0	0	0	0
		GRWATER	0	0	0	0	0	0	0	0	0	0	0	0	0

6.71% Discount Rate

	$M NPVRR	$000 2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Original Emergency Cost																	
No Retirements	295	14,711	8,746	10,395	21,068	26,862	32,937	1,283	2,028	5,421	10,405	22,573	31,344	51,844	17,598	8,745	25,879
Retire TY	290	14,711	8,746	10,395	20,875	26,640	1,174	1,904	2,956	7,628	14,097	29,789	40,987	66,355	23,219	11,650	32,935
Retire TY and GR3	247	14,711	8,746	10,395	20,687	26,423	4,759	7,408	10,988	25,512	8,461	8,894	12,891	22,831	43,082	12,057	12,176
Retire TY GR3 and BR3	325	14,711	8,746	10,395	20,687	26,012	11,751	17,624	24,503	50,645	13,545	7,696	11,038	18,959	35,449	60,211	32,357
Retire TY GR3 and CR4	326	14,711	8,746	10,395	20,502	26,207	3,832	5,958	8,788	20,437	33,956	66,493	23,729	17,944	33,778	59,075	68,548
Retire TY GR3 CR4 and CR6	329	14,711	8,746	10,395	20,245	25,893	11,762	17,618	24,858	51,771	13,395	7,297	11,020	18,575	34,224	60,160	53,456
Retire TY GR3 CR4 CR6 and BR1-2	353	14,711	8,746	10,395	20,043	25,574	36,511	52,437	17,832	6,019	11,214	21,790	31,827	49,869	13,637	8,891	21,451
Retire TY GR3 and CR	338	14,711	8,746	10,395	20,064	25,689	23,956	34,779	48,076	23,258	7,118	14,598	21,023	34,506	58,853	17,827	14,863
Retire TY GR3 CR and GH3	371	14,711	8,746	10,395	20,064	25,689	32,527	19,823	29,060	57,914	14,752	8,560	12,657	21,336	37,853	67,042	56,527
Retire TY GR3 CR and GH1	387	14,711	8,746	10,395	19,766	25,158	24,131	9,282	12,617	27,279	44,887	75,958	18,594	9,650	18,818	34,081	68,466
Retire TY GR and CR	339	14,711	8,746	10,395	19,811	25,388	34,749	49,742	17,481	5,570	10,571	21,082	29,716	47,428	11,995	8,412	19,618
Retire TY GR CR and MC4	396	14,711	8,746	10,395	19,811	24,438	34,475	13,012	17,945	37,002	58,752	22,828	7,749	13,135	24,532	44,180	76,228
Retire TY GR CR and TC1	406	14,711	8,746	10,395	19,811	25,387	28,058	9,437	13,974	28,951	46,726	83,243	19,741	10,190	19,440	35,256	70,407
Retire TY GR CR and GH4	401	14,711	8,746	10,395	19,811	25,387	38,483	13,058	19,297	39,023	61,393	23,539	8,169	13,918	25,851	46,096	90,229
Retire TY GR CR and MC3	391	14,711	8,746	10,395	19,811	25,293	24,865	9,432	13,162	25,992	44,983	79,481	18,738	9,436	18,838	34,441	66,647
Retire TY GR CR and GH2	391	14,711	8,746	10,395	19,811	24,597	34,501	13,614	18,869	37,230	60,924	22,608	8,162	13,820	25,722	45,748	82,988
Retire TY GR CR and MC1-2	420	14,711	8,746	10,395	19,811	24,772	63,474	22,549	32,746	60,703	15,185	9,621	14,021	22,875	40,257	69,186	57,245
% of Total Cost																	
No Retirements	0.9%	1.3%	0.7%	0.7%	1.2%	1.3%	1.5%	0.1%	0.1%	0.2%	0.4%	0.9%	1.2%	1.9%	0.6%	0.3%	0.9%
Retire TY	0.9%	1.3%	0.7%	0.7%	1.2%	1.3%	0.1%	0.1%	0.1%	0.3%	0.6%	1.2%	1.5%	2.4%	0.8%	0.4%	1.1%
Retire TY and GR3	0.7%	1.3%	0.7%	0.7%	1.2%	1.3%	0.2%	0.3%	0.5%	1.0%	0.3%	0.3%	0.5%	0.8%	1.5%	0.4%	0.4%
Retire TY GR3 and BR3	1.0%	1.3%	0.7%	0.7%	1.2%	1.3%	0.5%	0.8%	1.0%	2.0%	0.5%	0.3%	0.4%	0.7%	1.2%	2.0%	1.0%
Retire TY GR3 and CR4	1.0%	1.3%	0.7%	0.7%	1.2%	1.3%	0.2%	0.3%	0.4%	0.9%	1.4%	2.6%	0.9%	0.7%	1.2%	2.0%	2.2%
Retire TY GR3 CR4 and CR6	1.0%	1.3%	0.7%	0.7%	1.2%	1.3%	0.6%	0.8%	1.1%	2.1%	0.5%	0.3%	0.4%	0.7%	1.2%	2.0%	1.7%
Retire TY GR3 CR4 CR6 and BR1-2	1.1%	1.3%	0.7%	0.7%	1.2%	1.3%	1.7%	2.3%	0.8%	0.3%	0.5%	0.9%	1.2%	1.8%	0.5%	0.3%	0.7%
Retire TY GR3 and CR	1.0%	1.3%	0.7%	0.7%	1.2%	1.4%	1.1%	1.6%	2.1%	1.0%	0.3%	0.6%	0.8%	1.3%	2.1%	0.6%	0.5%
Retire TY GR3 CR and GH3	1.1%	1.3%	0.7%	0.7%	1.2%	1.3%	1.5%	0.9%	1.2%	2.3%	0.6%	0.3%	0.5%	0.8%	1.3%	2.2%	1.7%
Retire TY GR3 CR and GH1	1.1%	1.3%	0.7%	0.7%	1.2%	1.3%	1.1%	0.4%	0.6%	1.1%	1.8%	2.8%	0.7%	0.3%	0.7%	1.1%	2.1%
Retire TY GR and CR	1.0%	1.3%	0.7%	0.7%	1.2%	1.4%	1.6%	2.3%	0.8%	0.2%	0.4%	0.8%	1.1%	1.7%	0.4%	0.3%	0.6%
Retire TY GR CR and MC4	1.2%	1.3%	0.7%	0.8%	1.2%	1.3%	1.6%	0.6%	0.8%	1.5%	2.3%	0.9%	0.3%	0.5%	0.9%	1.5%	2.4%
Retire TY GR CR and TC1	1.2%	1.3%	0.7%	0.7%	1.2%	1.3%	1.3%	0.4%	0.6%	1.2%	1.8%	3.1%	0.7%	0.4%	0.7%	1.2%	2.2%
Retire TY GR CR and GH4	1.2%	1.3%	0.7%	0.7%	1.2%	1.3%	1.7%	0.6%	0.8%	1.6%	2.4%	0.9%	0.3%	0.5%	0.9%	1.5%	2.8%
Retire TY GR CR and MC3	1.2%	1.3%	0.7%	0.7%	1.2%	1.3%	1.1%	0.4%	0.6%	1.1%	1.8%	3.0%	0.7%	0.3%	0.7%	1.2%	2.1%
Retire TY GR CR and GH2	1.2%	1.3%	0.7%	0.7%	1.2%	1.3%	1.5%	0.6%	0.8%	1.5%	2.4%	0.8%	0.3%	0.5%	0.9%	1.5%	2.6%
Retire TY GR CR and MC1-2	1.2%	1.3%	0.7%	0.8%	1.2%	1.3%	2.9%	1.0%	1.4%	2.4%	0.6%	0.4%	0.5%	0.8%	1.4%	2.2%	1.8%
Emergency Energy (GWh)	Max																
No Retirements	3.68	0.89	0.53	0.63	1.27	1.62	1.98	0.08	0.12	0.33	0.63	1.36	1.89	3.12	1.06	0.53	1.56
Retire TY	4.00	0.89	0.53	0.63	1.26	1.60	0.07	0.11	0.18	0.46	0.85	1.79	2.47	4.00	1.40	0.70	1.98
Retire TY and GR3	3.20	0.89	0.53	0.63	1.25	1.59	0.29	0.45	0.66	1.54	0.51	0.54	0.78	1.38	2.60	0.73	0.73
Retire TY GR3 and BR3	4.32	0.89	0.53	0.63	1.25	1.57	0.71	1.06	1.48	3.05	0.82	0.46	0.66	1.14	2.14	3.63	1.95
Retire TY GR3 and CR4	4.13	0.89	0.53	0.63	1.24	1.58	0.23	0.36	0.53	1.23	2.05	4.01	1.43	1.08	2.03	3.56	4.13
Retire TY GR3 CR4 and CR6	4.24	0.89	0.53	0.63	1.22	1.56	0.71	1.06	1.50	3.12	0.81	0.44	0.66	1.12	2.06	3.62	3.22
Retire TY GR3 CR4 CR6 and BR1-2	4.90	0.89	0.53	0.63	1.21	1.54	2.20	3.16	1.07	0.36	0.68	1.31	1.92	3.00	0.82	0.54	1.29
Retire TY GR3 and CR	3.76	0.89	0.53	0.63	1.21	1.55	1.44	2.10	2.90	1.40	0.43	0.88	1.27	2.08	3.55	1.07	0.90
Retire TY GR3 CR and GH3	4.61	0.89	0.53	0.63	1.21	1.55	1.96	1.19	1.75	3.49	0.89	0.52	0.76	1.29	2.28	4.04	3.41
Retire TY GR3 CR and GH1	4.99	0.89	0.53	0.63	1.19	1.52	1.45	0.56	0.76	1.64	2.70	4.58	1.12	0.58	1.13	2.05	4.12
Retire TY GR and CR	4.75	0.89	0.53	0.63	1.19	1.53	2.09	3.00	1.05	0.34	0.64	1.27	1.79	2.86	0.72	0.51	1.18
Retire TY GR CR and MC4	5.89	0.89	0.53	0.63	1.19	1.47	2.08	0.78	1.08	2.23	3.54	1.38	0.47	0.79	1.48	2.66	4.59
Retire TY GR CR and TC1	5.07	0.89	0.53	0.63	1.19	1.53	1.69	0.57	0.84	1.74	2.81	5.01	1.19	0.61	1.17	2.12	4.24
Retire TY GR CR and GH4	5.70	0.89	0.53	0.63	1.19	1.53	2.32	0.79	1.16	2.35	3.70	1.42	0.49	0.84	1.56	2.78	5.44
Retire TY GR CR and MC3	4.98	0.89	0.53	0.63	1.19	1.52	1.50	0.57	0.79	1.57	2.71	4.79	1.13	0.57	1.13	2.07	4.01
Retire TY GR CR and GH2	5.61	0.89	0.53	0.63	1.19	1.48	2.08	0.82	1.14	2.24	3.67	1.36	0.49	0.83	1.55	2.76	5.00
Retire TY GR CR and MC1-2	4.97	0.89	0.53	0.63	1.19	1.49	3.82	1.36	1.97	3.66	0.91	0.58	0.84	1.38	2.43	4.17	3.45

6.71% Discount Rate

	$M NPVRR	$000 2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Adjusted Emergency Cost	16600	$/MWh															
No Retirements	295	14711	8746	10395	21068	26862	32937	1283	2028	5421	10405	22573	31344	51844	17598	8745	25879
Retire TY	290	14711	8746	10395	20875	26640	1174	1904	2956	7628	14097	29789	40987	66355	23219	11650	32935
Retire TY and GR3	247	14711	8746	10395	20687	26423	4759	7408	10988	25511	8461	8894	12891	22831	43082	12057	12176
Retire TY GR3 and BR3	325	14711	8746	10395	20687	26012	11751	17624	24503	50645	13545	7696	11038	18959	35449	60211	32357
Retire TY GR3 and CR4	326	14711	8746	10395	20502	26207	3832	5958	8788	20437	33956	66493	23729	17944	33778	59075	68548
Retire TY GR3 CR4 and CR6	329	14711	8746	10395	20245	25893	11762	17618	24858	51771	13395	7297	11020	18575	34224	60160	53456
Retire TY GR3 CR4 CR6 and BR1-2	353	14711	8746	10395	20043	25574	36511	52437	17832	6019	11214	21790	31827	49869	13637	8891	21451
Retire TY GR3 and CR	338	14711	8746	10395	20064	25689	23956	34779	48076	23258	7118	14598	21023	34506	58853	17827	14863
Retire TY GR3 CR and GH3	371	14711	8746	10395	20064	25689	32527	19823	29060	57914	14752	8560	12657	21336	37853	67042	56527
Retire TY GR3 CR and GH1	387	14711	8746	10395	19766	25158	24131	9282	12617	27279	44887	75958	18594	9650	18818	34081	68466
Retire TY GR and CR	339	14711	8746	10395	19811	25388	34749	49742	17481	5570	10571	21082	29716	47428	11995	8412	19618
Retire TY GR CR and MC4	396	14711	8746	10395	19811	24438	34475	13012	17945	37002	58752	22828	7749	13134	24532	44180	76228
Retire TY GR CR and TC1	406	14711	8746	10395	19811	25387	28058	9437	13974	28951	46726	83243	19741	10190	19440	35256	70407
Retire TY GR CR and GH4	401	14711	8746	10395	19811	25387	38483	13058	19297	39023	61393	23539	8169	13918	25851	46096	90229
Retire TY GR CR and MC3	391	14711	8746	10395	19811	25293	24865	9432	13162	25992	44983	79481	18738	9436	18838	34441	66647
Retire TY GR CR and GH2	391	14711	8746	10395	19811	24597	34501	13614	18869	37230	60924	22608	8162	13820	25722	45748	82988
Retire TY GR CR and MC1-2	420	14711	8746	10395	19811	24772	63474	22549	32746	60703	15185	9621	14021	22875	40257	69186	57245
Original Total RR																	
No Retirements	33,083	1,153,325	1,303,125	1,487,365	1,779,836	2,015,695	2,249,635	2,261,295	2,324,945	2,409,832	2,461,265	2,550,982	2,701,624	2,792,108	2,807,879	2,867,606	2,992,929
Retire TY	33,081	1,153,325	1,301,802	1,488,407	1,806,813	2,044,996	2,237,108	2,243,839	2,308,701	2,395,746	2,449,042	2,543,348	2,697,429	2,793,758	2,800,792	2,856,973	2,987,008
Retire TY and GR3	33,013	1,153,325	1,300,479	1,482,856	1,786,971	2,014,441	2,196,747	2,209,498	2,309,572	2,443,147	2,493,143	2,565,403	2,669,203	2,746,177	2,832,226	2,903,682	3,017,072
Retire TY GR3 and BR3	33,616	1,153,325	1,300,275	1,481,405	1,788,327	2,014,380	2,220,258	2,242,535	2,356,461	2,514,053	2,555,186	2,629,304	2,728,150	2,768,176	2,851,682	3,005,853	3,117,123
Retire TY GR3 and CR4	32,926	1,152,003	1,292,308	1,459,575	1,751,340	1,991,067	2,180,113	2,187,403	2,258,094	2,363,698	2,455,273	2,600,245	2,680,938	2,705,242	2,786,886	2,933,273	3,106,926
Retire TY GR3 CR4 and CR6	32,936	1,149,571	1,280,557	1,425,688	1,691,927	1,934,427	2,135,564	2,155,362	2,279,643	2,445,473	2,485,775	2,558,592	2,666,164	2,707,709	2,791,188	2,956,018	3,112,256
Retire TY GR3 CR4 CR6 and BR1-2	33,166	1,149,081	1,274,051	1,410,083	1,658,810	1,903,088	2,182,735	2,249,009	2,322,306	2,402,940	2,456,033	2,551,665	2,719,546	2,817,515	2,848,218	2,939,652	3,070,168
Retire TY GR3 and CR	32,880	1,148,244	1,271,793	1,399,276	1,641,672	1,886,060	2,109,138	2,168,527	2,307,240	2,407,624	2,442,341	2,526,021	2,646,076	2,744,409	2,844,647	2,935,224	3,054,867
Retire TY GR3 CR and GH3	33,801	1,148,130	1,271,228	1,397,915	1,659,763	1,919,283	2,198,125	2,190,581	2,331,030	2,501,070	2,543,220	2,623,655	2,740,031	2,797,982	2,893,265	3,090,807	3,244,174
Retire TY GR3 CR and GH1	33,680	1,148,058	1,266,899	1,387,270	1,650,120	1,922,823	2,208,188	2,206,965	2,286,013	2,407,352	2,518,831	2,671,219	2,779,440	2,815,659	2,865,723	2,986,527	3,198,382
Retire TY GR and CR	32,786	1,148,244	1,269,908	1,393,366	1,626,535	1,875,793	2,140,398	2,204,423	2,282,826	2,361,770	2,417,685	2,513,276	2,675,127	2,782,586	2,809,450	2,909,143	3,032,941
Retire TY GR CR and MC4	33,645	1,147,383	1,257,198	1,371,885	1,625,360	1,878,014	2,192,180	2,181,782	2,272,811	2,436,951	2,557,342	2,647,415	2,738,784	2,808,124	2,853,280	2,999,792	3,194,726
Retire TY GR CR and TC1	33,781	1,148,244	1,269,908	1,396,357	1,661,557	1,936,078	2,220,769	2,198,579	2,292,711	2,407,192	2,526,556	2,693,576	2,785,876	2,819,502	2,874,051	2,985,220	3,213,415
Retire TY GR CR and GH4	33,947	1,148,122	1,269,381	1,394,740	1,656,983	1,930,900	2,229,192	2,208,604	2,300,837	2,464,139	2,582,863	2,669,384	2,761,618	2,825,321	2,873,225	3,012,941	3,228,311
Retire TY GR CR and MC3	33,542	1,148,244	1,268,529	1,386,868	1,645,476	1,915,414	2,193,042	2,182,060	2,268,615	2,374,204	2,501,650	2,666,720	2,763,085	2,796,872	2,851,953	2,975,528	3,186,527
Retire TY GR CR and GH2	33,932	1,148,233	1,266,263	1,388,699	1,646,576	1,913,240	2,228,233	2,214,949	2,309,292	2,452,969	2,589,954	2,671,054	2,776,278	2,826,253	2,883,048	3,009,929	3,204,725
Retire TY GR CR and MC1-2	33,807	1,148,244	1,262,701	1,373,647	1,621,285	1,846,512	2,200,244	2,168,133	2,308,525	2,481,440	2,523,967	2,618,958	2,740,925	2,810,721	2,911,785	3,092,739	3,240,126
Adjusted Total RR																	
No Retirements	33,083	1,153,325	1,303,125	1,487,365	1,779,836	2,015,695	2,249,635	2,261,295	2,324,945	2,409,832	2,461,265	2,550,982	2,701,624	2,792,108	2,807,879	2,867,606	2,992,929
Retire TY	33,081	1,153,325	1,301,802	1,488,407	1,806,813	2,044,996	2,237,108	2,243,839	2,308,701	2,395,746	2,449,042	2,543,348	2,697,429	2,793,758	2,800,792	2,856,973	2,987,008
Retire TY and GR3	33,013	1,153,325	1,300,479	1,482,856	1,786,971	2,014,441	2,196,747	2,209,498	2,309,572	2,443,147	2,493,143	2,565,403	2,669,203	2,746,177	2,832,226	2,903,682	3,017,072
Retire TY GR3 and BR3	33,616	1,153,325	1,300,275	1,481,405	1,788,327	2,014,380	2,220,258	2,242,535	2,356,461	2,514,053	2,555,186	2,629,304	2,728,150	2,768,176	2,851,682	3,005,853	3,117,123
Retire TY GR3 and CR4	32,926	1,152,003	1,292,308	1,459,575	1,751,340	1,991,067	2,180,113	2,187,403	2,258,094	2,363,698	2,455,273	2,600,245	2,680,938	2,705,242	2,786,886	2,933,273	3,106,926
Retire TY GR3 CR4 and CR6	32,936	1,149,571	1,280,557	1,425,688	1,691,927	1,934,427	2,135,564	2,155,362	2,279,643	2,445,473	2,485,775	2,558,592	2,666,164	2,707,709	2,791,188	2,956,018	3,112,256
Retire TY GR3 CR4 CR6 and BR1-2	33,166	1,149,081	1,274,051	1,410,083	1,658,810	1,903,088	2,182,735	2,249,009	2,322,306	2,402,940	2,456,033	2,551,665	2,719,546	2,817,515	2,848,218	2,939,652	3,070,168
Retire TY GR3 and CR	32,880	1,148,244	1,271,793	1,399,276	1,641,672	1,886,060	2,109,138	2,168,527	2,307,240	2,407,624	2,442,341	2,526,021	2,646,076	2,744,409	2,844,647	2,935,224	3,054,867
Retire TY GR3 CR and GH3	33,801	1,148,130	1,271,228	1,397,915	1,659,763	1,919,283	2,198,125	2,190,581	2,331,030	2,501,070	2,543,220	2,623,655	2,740,031	2,797,982	2,893,265	3,090,807	3,244,174
Retire TY GR3 CR and GH1	33,680	1,148,058	1,266,899	1,387,270	1,650,120	1,922,823	2,208,188	2,206,965	2,286,013	2,407,352	2,518,831	2,671,219	2,779,440	2,815,659	2,865,723	2,986,527	3,198,382
Retire TY GR and CR	32,786	1,148,244	1,269,908	1,393,366	1,626,535	1,875,793	2,140,398	2,204,423	2,282,826	2,361,770	2,417,685	2,513,276	2,675,127	2,782,586	2,809,450	2,909,143	3,032,941
Retire TY GR CR and MC4	33,645	1,147,383	1,257,198	1,371,885	1,625,360	1,878,014	2,192,180	2,181,782	2,272,811	2,436,951	2,557,342	2,647,415	2,738,784	2,808,124	2,853,280	2,999,792	3,194,726
Retire TY GR CR and TC1	33,781	1,148,244	1,269,908	1,396,357	1,661,557	1,936,078	2,220,769	2,198,579	2,292,711	2,407,192	2,526,556	2,693,576	2,785,876	2,819,502	2,874,051	2,985,220	3,213,415
Retire TY GR CR and GH4	33,947	1,148,122	1,269,381	1,394,740	1,656,983	1,930,900	2,229,192	2,208,604	2,300,837	2,464,139	2,582,863	2,669,384	2,761,618	2,825,321	2,873,225	3,012,941	3,228,311
Retire TY GR CR and MC3	33,542	1,148,244	1,268,529	1,386,868	1,645,475	1,915,414	2,193,042	2,182,060	2,268,615	2,374,204	2,501,650	2,666,720	2,763,085	2,796,872	2,851,953	2,975,528	3,186,527
Retire TY GR CR and GH2	33,932	1,148,233	1,266,263	1,388,699	1,646,576	1,913,240	2,228,233	2,214,949	2,309,292	2,452,969	2,589,954	2,671,054	2,776,278	2,826,253	2,883,048	3,009,929	3,204,725

6.71% Discount Rate

	$M NPVRR	$000 2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Retire TY GR CR and MC1-2	33,807	1,148,244	1,262,701	1,373,647	1,621,285	1,846,512	2,200,244	2,168,133	2,308,525	2,481,440	2,523,967	2,618,958	2,740,925	2,810,721	2,911,785	3,092,739	3,240,126
Adjusted Total RR Delta																	
No Retirements																	
Retire TY	-1	0	-1,323	1,042	26,977	29,301	-12,528	-17,456	-16,244	-14,085	-12,224	-7,634	-4,195	1,651	-7,087	-10,633	-5,921
Retire TY and GR3	-69	0	-1,323	-5,551	-19,842	-30,555	-40,361	-34,340	871	47,400	44,102	22,055	-28,225	-47,582	31,434	46,709	30,063
Retire TY GR3 and BR3	603	0	-204	-1,451	1,356	-61	23,511	33,037	46,889	70,906	62,043	63,901	58,947	22,000	19,456	102,172	100,051
Retire TY GR3 and CR4	-87	-1,322	-8,171	-23,282	-35,631	-23,374	-16,634	-22,096	-51,478	-79,449	-37,870	34,842	11,734	-40,935	-45,340	29,591	89,855
Retire TY GR3 CR4 and CR6	11	-2,432	-11,751	-33,887	-59,413	-56,640	-44,549	-32,041	21,548	81,775	30,502	-41,654	-14,774	2,467	4,302	22,745	5,330
Retire TY GR3 CR4 CR6 and BR1-2	230	-489	-6,506	-15,605	-33,118	-31,339	47,171	93,647	42,664	-42,533	-29,742	-6,927	53,382	109,806	57,030	-16,366	-42,088
Retire TY GR3 and CR	-57	-1,326	-8,764	-26,412	-50,255	-48,367	-26,426	13,166	27,597	-37,849	-43,434	-32,571	-20,088	36,700	53,459	-20,795	-57,389
Retire TY GR3 CR and GH3	921	-114	-565	-1,361	18,091	33,222	88,987	22,054	23,790	93,446	100,878	97,635	93,955	53,573	48,618	155,583	189,307
Retire TY GR3 CR and GH1	800	-187	-4,894	-12,006	8,448	36,763	99,050	38,438	-21,227	-272	76,490	145,198	133,364	71,251	21,077	51,303	143,515
Retire TY GR and CR	-94	0	-1,885	-5,910	-15,137	-10,267	31,260	35,895	-24,413	-45,854	-24,656	-12,744	29,051	38,177	-35,197	-26,081	-21,926
Retire TY GR CR and MC4	859	-862	-12,710	-21,482	-1,174	2,221	51,782	-22,641	-10,015	75,181	139,657	134,138	63,657	25,538	43,830	90,650	161,785
Retire TY GR CR and TC1	996	0	0	2,991	35,023	60,285	80,371	-5,844	9,884	45,422	108,870	180,300	110,749	36,916	64,601	76,077	180,474
Retire TY GR CR and GH4	1,161	-122	-527	1,374	30,448	55,107	88,795	4,181	18,011	102,369	165,177	156,108	86,491	42,735	63,775	103,799	195,369
Retire TY GR CR and MC3	756	0	-1,379	-6,498	18,941	39,621	52,644	-22,363	-14,212	12,434	83,965	153,444	87,957	14,286	42,503	66,386	153,585
Retire TY GR CR and GH2	1,146	-11	-3,645	-4,667	20,041	37,447	87,835	10,527	26,465	91,199	172,268	157,778	101,151	43,667	73,598	100,787	171,784
Retire TY GR CR and MC1-2	1,022	0	-7,206	-19,719	-5,250	-29,281	59,846	-36,290	25,699	119,670	106,281	105,682	65,798	28,135	102,335	183,596	207,185

	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Original Emergency Cost														
No Retirements	22,608	34,664	45,432	28,196	20,594	28,115	39,816	61,158	23,677	24,912	36,693	55,808	38,427	52,244
Retire TY	29,218	44,038	57,202	28,035	11,450	15,935	22,926	36,097	47,714	21,739	21,487	32,993	38,455	56,884
Retire TY and GR3	9,906	16,251	21,915	46,169	40,988	48,927	12,885	6,543	9,435	20,172	30,071	45,600	53,043	49,600
Retire TY GR3 and BR3	7,853	12,851	17,023	35,935	54,562	70,852	19,575	10,728	14,890	29,528	42,393	62,819	71,665	66,392
Retire TY GR3 and CR4	7,478	12,353	16,665	35,490	53,983	43,046	52,696	18,097	7,025	15,249	22,913	34,602	40,705	59,624
Retire TY GR3 CR4 and CR6	7,783	12,147	17,022	35,508	52,323	69,523	18,556	10,571	14,222	29,033	41,645	56,872	70,332	65,016
Retire TY GR3 CR4 CR6 and BR1-2	21,774	31,373	42,706	81,415	18,999	11,828	16,705	26,614	34,398	64,497	55,116	69,046	52,949	69,028
Retire TY GR3 and CR	14,843	22,277	29,705	59,956	20,346	18,747	26,222	41,187	52,801	24,148	24,945	34,395	43,730	62,337
Retire TY GR3 CR and GH3	8,982	13,904	18,905	39,548	56,994	76,192	19,850	11,949	16,001	32,144	45,773	61,916	76,496	69,999
Retire TY GR3 CR and GH1	70,584	14,364	8,981	18,944	30,203	39,751	54,041	79,749	26,357	35,395	49,879	67,104	82,909	72,693
Retire TY GR and CR	20,361	30,709	40,215	78,840	18,074	11,243	15,993	25,060	33,311	62,043	53,072	65,928	51,037	66,156
Retire TY GR CR and MC4	88,547	21,112	11,891	23,733	38,182	50,248	67,103	97,802	24,420	20,892	30,342	38,657	51,098	67,721
Retire TY GR CR and TC1	73,954	20,505	9,260	20,159	30,795	41,123	55,664	81,189	30,252	36,034	50,849	67,743	84,106	75,994
Retire TY GR CR and GH4	94,676	27,047	12,439	26,532	39,832	52,751	70,867	22,188	10,549	21,849	31,657	42,439	53,709	73,939
Retire TY GR CR and MC3	71,409	19,966	8,977	19,677	30,049	40,334	53,590	78,974	26,111	35,129	49,895	66,647	82,706	74,711
Retire TY GR CR and GH2	93,146	26,175	12,406	26,321	39,652	52,433	69,172	21,553	10,507	21,825	31,540	42,291	53,475	72,766
Retire TY GR CR and MC1-2	22,190	33,058	43,658	82,478	18,224	12,390	17,446	27,062	35,671	65,486	56,212	69,677	54,023	69,497
% of Total Cost														
No Retirements	0.8%	1.1%	1.4%	0.9%	0.6%	0.8%	1.1%	1.7%	0.6%	0.7%	1.0%	1.5%	1.0%	1.3%
Retire TY	1.0%	1.4%	1.8%	0.8%	0.3%	0.5%	0.7%	1.0%	1.3%	0.6%	0.6%	0.9%	1.0%	1.5%
Retire TY and GR3	0.3%	0.5%	0.7%	1.4%	1.2%	1.4%	0.4%	0.2%	0.3%	0.5%	0.8%	1.2%	1.4%	1.3%
Retire TY GR3 and BR3	0.3%	0.4%	0.5%	1.1%	1.6%	2.0%	0.5%	0.3%	0.4%	0.8%	1.1%	1.6%	1.8%	1.7%
Retire TY GR3 and CR4	0.2%	0.4%	0.5%	1.1%	1.6%	1.3%	1.5%	0.5%	0.2%	0.4%	0.6%	0.9%	1.1%	1.5%
Retire TY GR3 CR4 and CR6	0.3%	0.4%	0.5%	1.1%	1.6%	2.0%	0.5%	0.3%	0.4%	0.8%	1.1%	1.5%	1.8%	1.6%
Retire TY GR3 CR4 CR6 and BR1-2	0.7%	1.0%	1.3%	2.4%	0.6%	0.3%	0.5%	0.7%	0.9%	1.7%	1.4%	1.8%	1.3%	1.7%
Retire TY GR3 and CR	0.5%	0.7%	0.9%	1.8%	0.6%	0.5%	0.7%	1.1%	1.4%	0.6%	0.6%	0.9%	1.1%	1.5%
Retire TY GR3 CR and GH3	0.3%	0.4%	0.6%	1.2%	1.6%	2.1%	0.5%	0.3%	0.4%	0.8%	1.2%	1.5%	1.9%	1.7%
Retire TY GR3 CR and GH1	2.2%	0.4%	0.3%	0.5%	0.9%	1.1%	1.5%	2.1%	0.7%	0.9%	1.3%	1.7%	2.0%	1.7%
Retire TY GR and CR	0.7%	1.0%	1.2%	2.3%	0.5%	0.3%	0.4%	0.7%	0.9%	1.6%	1.4%	1.7%	1.3%	1.6%
Retire TY GR CR and MC4	2.7%	0.6%	0.4%	0.7%	1.1%	1.4%	1.8%	2.5%	0.6%	0.5%	0.8%	1.0%	1.3%	1.6%
Retire TY GR CR and TC1	2.3%	0.6%	0.3%	0.6%	0.9%	1.2%	1.5%	2.1%	0.8%	0.9%	1.3%	1.7%	2.1%	1.8%
Retire TY GR CR and GH4	2.9%	0.8%	0.4%	0.8%	1.1%	1.4%	1.9%	0.6%	0.3%	0.6%	0.8%	1.0%	1.3%	1.8%
Retire TY GR CR and MC3	2.2%	0.6%	0.3%	0.6%	0.9%	1.1%	1.4%	2.1%	0.7%	0.9%	1.3%	1.7%	2.0%	1.8%
Retire TY GR CR and GH2	2.8%	0.8%	0.4%	0.8%	1.1%	1.4%	1.8%	0.6%	0.3%	0.5%	0.8%	1.0%	1.3%	1.7%
Retire TY GR CR and MC1-2	0.7%	1.0%	1.3%	2.3%	0.5%	0.3%	0.5%	0.7%	0.9%	1.6%	1.4%	1.7%	1.3%	1.6%
Emergency Energy (GWh)														
No Retirements	1.36	2.09	2.74	1.70	1.24	1.69	2.40	3.68	1.43	1.50	2.21	3.36	2.31	3.15
Retire TY	1.76	2.65	3.45	1.69	0.69	0.96	1.38	2.17	2.87	1.31	1.29	1.99	2.32	3.43
Retire TY and GR3	0.60	0.98	1.32	2.78	2.47	2.95	0.78	0.39	0.57	1.22	1.81	2.75	3.20	2.99
Retire TY GR3 and BR3	0.47	0.77	1.03	2.16	3.29	4.27	1.18	0.65	0.90	1.78	2.55	3.78	4.32	4.00
Retire TY GR3 and CR4	0.45	0.74	1.00	2.14	3.25	2.59	3.17	1.09	0.42	0.92	1.38	2.08	2.45	3.59
Retire TY GR3 CR4 and CR6	0.47	0.73	1.03	2.14	3.15	4.19	1.12	0.64	0.86	1.75	2.51	3.43	4.24	3.92
Retire TY GR3 CR4 CR6 and BR1-2	1.31	1.89	2.57	4.90	1.14	0.71	1.01	1.60	2.07	3.89	3.32	4.16	3.19	4.16
Retire TY GR3 and CR	0.89	1.34	1.79	3.61	1.23	1.13	1.58	2.48	3.18	1.45	1.50	2.07	2.63	3.76
Retire TY GR3 CR and GH3	0.54	0.84	1.14	2.38	3.43	4.59	1.20	0.72	0.96	1.94	2.76	3.73	4.61	4.22
Retire TY GR3 CR and GH1	4.25	0.87	0.54	1.14	1.82	2.39	3.26	4.80	1.59	2.13	3.00	4.04	4.99	4.38
Retire TY GR and CR	1.23	1.85	2.42	4.75	1.09	0.68	0.96	1.51	2.01	3.74	3.20	3.97	3.07	3.99
Retire TY GR CR and MC4	5.33	1.27	0.72	1.43	2.30	3.03	4.04	5.89	1.47	1.26	1.83	2.33	3.08	4.08
Retire TY GR CR and TC1	4.46	1.24	0.56	1.21	1.86	2.48	3.35	4.89	1.82	2.17	3.06	4.08	5.07	4.58
Retire TY GR CR and GH4	5.70	1.63	0.75	1.60	2.40	3.18	4.27	1.34	0.64	1.32	1.91	2.56	3.24	4.45
Retire TY GR CR and MC3	4.30	1.20	0.54	1.19	1.81	2.43	3.23	4.76	1.57	2.12	3.01	4.01	4.98	4.50
Retire TY GR CR and GH2	5.61	1.58	0.75	1.59	2.39	3.16	4.17	1.30	0.63	1.31	1.90	2.55	3.22	4.38
Retire TY GR CR and MC1-2	1.34	1.99	2.63	4.97	1.10	0.75	1.05	1.63	2.15	3.94	3.39	4.20	3.25	4.19

	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Adjusted Emergency Cost														
No Retirements	22608	34664	45432	28196	20594	28115	39816	61158	23677	24912	36693	55808	38427	52244
Retire TY	29218	44038	57202	28035	11450	15935	22926	36097	47714	21739	21487	32993	38455	56884
Retire TY and GR3	9906	16251	21915	46169	40988	48927	12885	6543	9435	20172	30071	45600	53043	49600
Retire TY GR3 and BR3	7853	12851	17023	35935	54562	70852	19575	10728	14890	29528	42393	62819	71665	66392
Retire TY GR3 and CR4	7478	12353	16665	35490	53983	43046	52696	18097	7025	15249	22913	34602	40705	59624
Retire TY GR3 CR4 and CR6	7783	12147	17022	35508	52323	69523	18556	10571	14222	29033	41645	56872	70332	65016
Retire TY GR3 CR4 CR6 and BR1-2	21774	31373	42706	81415	18999	11828	16705	26614	34398	64496	55116	69046	52949	69028
Retire TY GR3 and CR	14843	22277	29705	59956	20346	18747	26222	41187	52801	24148	24945	34395	43730	62337
Retire TY GR3 CR and GH3	8982	13904	18905	39548	56994	76192	19850	11949	16001	32144	45773	61916	76496	69999
Retire TY GR3 CR and GH1	70584	14364	8981	18944	30203	39751	54041	79749	26357	35395	49879	67104	82909	72693
Retire TY GR and CR	20361	30709	40215	78840	18074	11243	15993	25060	33311	62043	53072	65928	51037	66156
Retire TY GR CR and MC4	88547	21112	11891	23733	38182	50248	67103	97802	24420	20892	30342	38657	51098	67721
Retire TY GR CR and TC1	73954	20505	9260	20159	30795	41123	55664	81189	30252	36034	50849	67743	84106	75994
Retire TY GR CR and GH4	94676	27047	12439	26532	39832	52751	70867	22188	10549	21849	31657	42439	53709	73939
Retire TY GR CR and MC3	71409	19966	8977	19677	30049	40334	53590	78974	26111	35129	49895	66647	82706	74711
Retire TY GR CR and GH2	93146	26175	12406	26321	39652	52433	69172	21553	10507	21825	31540	42291	53475	72766
Retire TY GR CR and MC1-2	22190	33058	43658	82478	18224	12390	17446	27062	35671	65486	56212	69677	54023	69496
Original Total RR														
No Retirements	2,987,847	3,114,818	3,203,297	3,290,340	3,297,676	3,356,737	3,480,390	3,589,844	3,666,273	3,703,679	3,761,291	3,823,836	3,814,175	3,932,779
Retire TY	2,982,627	3,126,986	3,232,640	3,320,644	3,322,437	3,371,484	3,451,256	3,548,538	3,683,443	3,721,962	3,772,108	3,804,142	3,801,261	3,915,650
Retire TY and GR3	3,005,704	3,085,744	3,133,701	3,253,475	3,327,262	3,447,690	3,528,144	3,570,841	3,644,617	3,679,430	3,727,476	3,777,515	3,796,277	3,907,892
Retire TY GR3 and BR3	3,106,085	3,183,867	3,223,805	3,322,270	3,410,412	3,536,969	3,598,863	3,651,003	3,730,661	3,769,082	3,824,484	3,878,391	3,902,570	3,991,589
Retire TY GR3 and CR4	3,032,856	3,114,122	3,151,389	3,249,120	3,319,956	3,423,237	3,578,812	3,629,889	3,708,731	3,734,646	3,780,069	3,815,429	3,807,285	3,930,553
Retire TY GR3 CR4 and CR6	3,061,307	3,141,689	3,185,904	3,278,394	3,374,325	3,508,598	3,605,774	3,649,791	3,728,354	3,770,023	3,816,874	3,856,685	3,892,224	4,003,088
Retire TY GR3 CR4 CR6 and BR1-2	3,062,027	3,159,031	3,266,583	3,429,527	3,439,106	3,500,717	3,604,957	3,649,683	3,746,282	3,825,319	3,871,298	3,933,832	3,932,482	4,058,677
Retire TY GR3 and CR	3,051,132	3,141,549	3,222,890	3,391,323	3,404,135	3,468,989	3,577,556	3,676,519	3,814,243	3,847,400	3,902,649	3,920,448	3,931,460	4,045,348
Retire TY GR3 CR and GH3	3,194,581	3,275,265	3,317,229	3,431,987	3,516,957	3,670,265	3,764,424	3,809,369	3,887,763	3,929,495	3,974,733	4,017,743	4,078,867	4,181,849
Retire TY GR3 CR and GH1	3,239,207	3,292,000	3,356,181	3,444,654	3,487,886	3,549,096	3,720,631	3,820,013	3,872,283	3,936,115	3,981,450	4,047,560	4,078,775	4,194,685
Retire TY GR and CR	3,028,538	3,127,833	3,225,237	3,418,572	3,422,194	3,485,560	3,584,414	3,630,247	3,726,854	3,797,020	3,853,786	3,907,145	3,911,645	4,032,447
Retire TY GR CR and MC4	3,265,676	3,317,295	3,364,667	3,434,348	3,502,301	3,566,140	3,760,848	3,877,599	3,956,157	3,979,315	4,037,629	4,030,517	4,072,360	4,178,133
Retire TY GR CR and TC1	3,251,949	3,338,878	3,355,330	3,463,115	3,484,830	3,564,633	3,704,593	3,835,375	3,896,834	3,947,527	3,987,852	4,042,860	4,069,729	4,189,337
Retire TY GR CR and GH4	3,282,974	3,340,850	3,350,207	3,471,962	3,509,465	3,640,933	3,819,709	3,861,468	3,945,790	3,954,963	4,026,707	4,064,015	4,082,893	4,193,762
Retire TY GR CR and MC3	3,219,568	3,315,564	3,339,807	3,445,296	3,471,313	3,550,533	3,702,909	3,817,250	3,867,042	3,929,428	3,975,008	4,024,159	4,054,231	4,170,714
Retire TY GR CR and GH2	3,282,509	3,342,602	3,372,967	3,466,107	3,519,584	3,635,374	3,802,638	3,862,531	3,949,795	3,982,537	4,021,330	4,072,276	4,077,882	4,173,352
Retire TY GR CR and MC1-2	3,190,536	3,298,114	3,401,540	3,591,820	3,597,255	3,660,924	3,770,667	3,808,219	3,905,491	3,986,280	4,056,086	4,112,637	4,120,655	4,249,914
Adjusted Total RR														
No Retirements	2,987,847	3,114,818	3,203,297	3,290,340	3,297,676	3,356,737	3,480,390	3,589,844	3,666,273	3,703,679	3,761,291	3,823,836	3,814,175	3,932,779
Retire TY	2,982,627	3,126,986	3,232,640	3,320,644	3,322,437	3,371,484	3,451,256	3,548,538	3,683,443	3,721,962	3,772,108	3,804,142	3,801,261	3,915,650
Retire TY and GR3	3,005,704	3,085,744	3,133,701	3,253,475	3,327,262	3,447,690	3,528,144	3,570,841	3,644,617	3,679,430	3,727,476	3,777,515	3,796,277	3,907,892
Retire TY GR3 and BR3	3,106,085	3,183,867	3,223,805	3,322,270	3,410,412	3,536,969	3,598,863	3,651,003	3,730,661	3,769,082	3,824,484	3,878,391	3,902,570	3,991,589
Retire TY GR3 and CR4	3,032,856	3,114,122	3,151,389	3,249,120	3,319,956	3,423,237	3,578,812	3,629,889	3,708,731	3,734,646	3,780,069	3,815,429	3,807,285	3,930,553
Retire TY GR3 CR4 and CR6	3,061,307	3,141,689	3,185,904	3,278,394	3,374,325	3,508,598	3,605,774	3,649,791	3,728,354	3,770,023	3,816,874	3,856,685	3,892,224	4,003,088
Retire TY GR3 CR4 CR6 and BR1-2	3,062,027	3,159,031	3,266,583	3,429,527	3,439,106	3,500,717	3,604,957	3,649,683	3,746,282	3,825,319	3,871,298	3,933,832	3,932,482	4,058,677
Retire TY GR3 and CR	3,051,132	3,141,549	3,222,890	3,391,323	3,404,135	3,468,989	3,577,556	3,676,519	3,814,243	3,847,400	3,902,649	3,920,448	3,931,460	4,045,348
Retire TY GR3 CR and GH3	3,194,581	3,275,265	3,317,229	3,431,987	3,516,957	3,670,265	3,764,424	3,809,369	3,887,763	3,929,495	3,974,733	4,017,743	4,078,867	4,181,849
Retire TY GR3 CR and GH1	3,239,207	3,292,000	3,356,181	3,444,654	3,487,886	3,549,096	3,720,631	3,820,013	3,872,283	3,936,115	3,981,450	4,047,560	4,078,775	4,194,685
Retire TY GR and CR	3,028,538	3,127,833	3,225,237	3,418,572	3,422,194	3,485,560	3,584,414	3,630,247	3,726,854	3,797,020	3,853,786	3,907,145	3,911,645	4,032,447
Retire TY GR CR and MC4	3,265,676	3,317,295	3,364,667	3,434,348	3,502,301	3,566,140	3,760,848	3,877,599	3,956,157	3,979,315	4,037,629	4,030,517	4,072,360	4,178,133
Retire TY GR CR and TC1	3,251,949	3,338,878	3,355,330	3,463,115	3,484,830	3,564,633	3,704,593	3,835,375	3,896,834	3,947,527	3,987,852	4,042,860	4,069,729	4,189,337
Retire TY GR CR and GH4	3,282,974	3,340,850	3,350,207	3,471,962	3,509,465	3,640,933	3,819,709	3,861,468	3,945,790	3,954,963	4,026,707	4,064,015	4,082,893	4,193,762
Retire TY GR CR and MC3	3,219,568	3,315,564	3,339,807	3,445,296	3,471,313	3,550,533	3,702,909	3,817,250	3,867,042	3,929,428	3,975,008	4,024,159	4,054,231	4,170,714
Retire TY GR CR and GH2	3,282,509	3,342,602	3,372,967	3,466,107	3,519,584	3,635,374	3,802,638	3,862,531	3,949,795	3,982,537	4,021,330	4,072,276	4,077,882	4,173,352

	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Retire TY GR CR and MC1-2	3,190,536	3,298,114	3,401,540	3,591,820	3,597,255	3,660,924	3,770,667	3,808,219	3,905,491	3,986,280	4,056,086	4,112,637	4,120,655	4,249,914
Adjusted Total RR Delta														
No Retirements														
Retire TY	-5,219	12,168	29,342	30,304	24,761	14,747	-29,134	-41,306	17,171	18,283	10,817	-19,694	-12,914	-17,129
Retire TY and GR3	23,077	-41,242	-98,939	-67,169	4,824	76,205	76,888	22,304	-38,826	-42,531	-44,632	-26,626	-4,984	-7,758
Retire TY GR3 and BR3	100,381	98,123	90,104	68,795	83,151	89,279	70,719	80,161	86,044	89,651	97,008	100,875	106,293	83,697
Retire TY GR3 and CR4	27,152	28,378	17,688	-4,355	-7,306	-24,453	50,668	59,048	64,113	55,216	52,593	37,913	11,008	22,661
Retire TY GR3 CR4 and CR6	28,451	27,568	34,514	29,274	54,369	85,361	26,962	19,902	19,623	35,377	36,805	41,256	84,939	72,535
Retire TY GR3 CR4 CR6 and BR1-2	719	17,342	80,680	151,133	64,781	-7,880	-817	-109	17,928	55,296	54,424	77,147	40,258	55,589
Retire TY GR3 and CR	-10,176	-140	36,986	112,930	29,809	-39,609	-28,219	26,727	85,889	77,377	85,775	63,763	39,236	42,260
Retire TY GR3 CR and GH3	143,449	133,716	94,340	40,663	112,822	201,276	186,868	132,851	73,520	82,095	72,084	97,295	147,407	136,501
Retire TY GR3 CR and GH1	188,076	150,451	133,292	53,331	83,751	80,107	143,075	143,494	58,040	88,715	78,801	127,112	147,315	149,337
Retire TY GR and CR	-22,594	-13,716	2,348	27,249	18,059	16,571	6,858	-46,271	-87,389	-50,380	-48,863	-13,303	-19,815	-12,901
Retire TY GR CR and MC4	237,137	189,462	139,430	15,776	80,107	80,580	176,434	247,352	229,303	182,295	183,843	123,372	160,715	145,687
Retire TY GR CR and TC1	223,411	211,044	130,093	44,543	62,636	79,073	120,180	205,128	169,980	150,508	134,066	135,715	158,084	156,891
Retire TY GR CR and GH4	254,435	213,017	124,969	53,390	87,271	155,373	235,295	231,221	218,936	157,943	172,920	156,869	171,248	161,315
Retire TY GR CR and MC3	191,030	187,730	114,570	26,724	49,119	64,974	118,495	187,003	140,188	132,408	121,221	117,014	142,586	138,267
Retire TY GR CR and GH2	253,971	214,768	147,730	47,535	97,390	149,815	218,225	232,284	222,940	185,518	167,543	165,130	166,237	140,906
Retire TY GR CR and MC1-2	161,998	170,280	176,303	173,248	175,062	175,365	186,253	177,972	178,636	189,261	202,300	205,491	209,010	217,467

	NPVRR Delta at Varying Emergency Energy Cost ($/MWh)				
	100	1,000	5,000	10,000	Compliance Plan (16,600)
TY	4	4	2	1	-1
GR3	-26	-28	-39	-52	-69
BR3	525	530	548	572	603
CR4	-166	-162	-142	-119	-87
CR6	8	8	9	10	11
BR1-2	205	207	213	220	230
CR5	-66	-65	-63	-60	-57
GH3	888	890	898	908	921
GH1	752	754	766	781	800
GR4	-96	-96	-95	-95	-94
MC4	803	806	820	837	859
TC1	930	933	949	969	996
GH4	1,100	1,104	1,118	1,137	1,161
MC3	705	708	720	736	756
GH2	1,095	1,098	1,110	1,126	1,146
MC1-2	942	946	965	990	1,022

Note: The values above reflect the correction of the landfill cost error identified by Dr. Fisher and the error identified by the Companies' in response to Supplemental Requests for Information of Rick Clewett, Raymond Barry, Sierra Club and the Natural Resource Defense Council dated August 18, 2011, Question No. 8(b). The impact of these errors is insignificant.