

KENTUCKY PUBLIC SERVICE COMMISSION

Docket Nos. 2011-00161 and 2011-00162

Environmental Intervenors' Responses and Supporting
Attachments to September 30, 2011 Data Requests by
Louisville Gas and Electric Company and Kentucky
Utilities Company

Enclosed: Attachments in Response to Question 11
(Binder 1 of 2 for Question 11)

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BEFORE THE KENTUCKY PUBLIC SERVICE COMMISSION

Docket Nos. 2011-00161 and 2011-00162

**Environmental Intervenors' Responses and Supporting Attachments to September 30, 2011
Data Requests by Louisville Gas and Electric Company and Kentucky Utilities Company**

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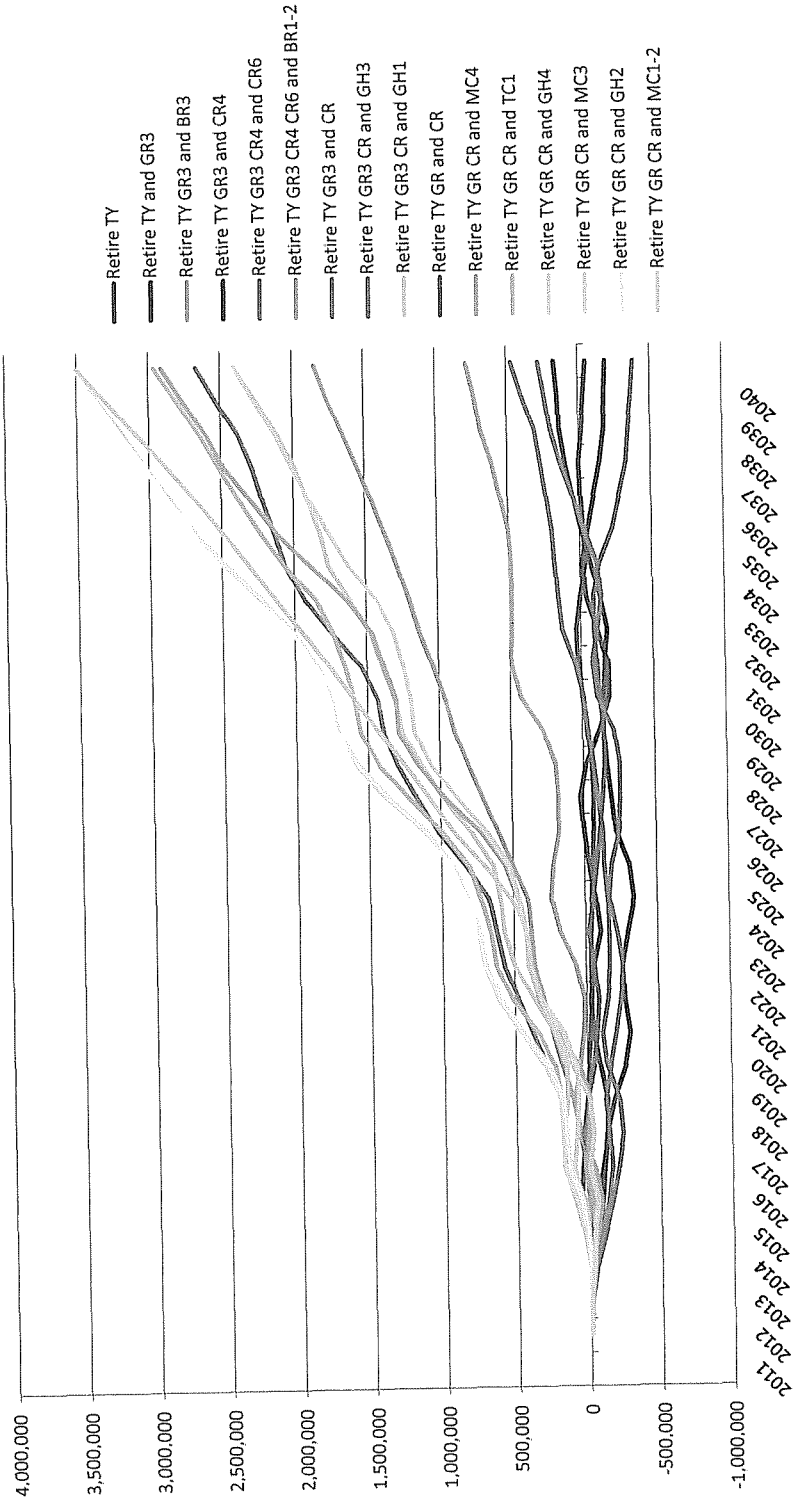
**Environmental Intervenors' Responses and Supporting Attachments to September 30, 2011
Data Requests by Louisville Gas and Electric Company and Kentucky Utilities Company**

**Attachments in Response to Question 11
(1st of 2 Binders for Question 11)**

	Delta NPVRR \$M
	Install Controls / (Retire)
Tyrone 3	(13)
Brown 3	(80)
Cane Run 6	603
Brown 1-2	(87)
Cane Run 4-5	11
Green River 3-4	230
Ghent 1-4	(57)
Trimble County 1	921
Mill Creek 3-4	800
Mill Creek 1-2	(110)

Cumulative Difference in Revenue Requirements

Install Controls vs. Retire/Replace Capacity



Retirement Savings (Deltas)	Capital	O&M	Total
Retire TY	-22	-3	-26
Retire TY and GR3	-13	-50	-62
Retire TY GR3 and BR3	-98	-174	-272
Retire TY GR3 and CR4	-46	-140	-186
Retire TY GR3 CR4 and CR6	-84	-118	-202
Retire TY GR3 CR4 CR6 and BR1-2	-63	-129	-192
Retire TY GR3 and CR	-50	-149	-199
Retire TY GR3 CR and GH3	-203	-145	-348
Retire TY GR3 CR and GH1	-201	-210	-411
Retire TY GR and CR	-18	-100	-118
Retire TY GR CR and MC4	-105	-201	-306
Retire TY GR CR and TC1	-68	-203	-271
Retire TY GR CR and GH4	-203	-141	-343
Retire TY GR CR and MC3	-86	-201	-287
Retire TY GR CR and GH2	-205	-156	-361
Retire TY GR CR and MC1-2	-133	-325	-457

Revenue Requirement Deltas	Prod Cost	Capital	Total	Check
Retire TY	-49	36	-13	0
Retire TY and GR3	-122	42	-80	0
Retire TY GR3 and BR3	481	122	603	0
Retire TY GR3 and CR4	161	-248	-87	0
Retire TY GR3 CR4 and CR6	279	-268	11	0
Retire TY GR3 CR4 CR6 and BR1-2	279	-49	230	0
Retire TY GR3 and CR	143	-200	-57	0
Retire TY GR3 CR and GH3	832	89	921	0
Retire TY GR3 CR and GH1	722	78	800	0
Retire TY GR and CR	-101	-9	-110	0
Retire TY GR CR and MC4	919	-60	859	0
Retire TY GR CR and TC1	805	190	996	0
Retire TY GR CR and GH4	1,044	117	1,161	0
Retire TY GR CR and MC3	696	60	756	0
Retire TY GR CR and GH2	1,018	128	1,146	0
Retire TY GR CR and MC1-2	1,219	-197	1,022	0

	A	B	C	D	E	F	G
1			1	2	3	4	5
2		Retire:					
3		<u>No</u>					<u>TY GR3 CR4</u>
4		<u>Retirements</u>	<u>TY</u>	<u>TY GR3</u>	<u>TY GR3 BR3</u>	<u>TY GR3 CR4</u>	<u>CR6</u>
5	2010						
6	2011						
7	2012						
8	2013						
9	2014						
10	2015						
11	2016		3x1C(1)	2x1C(1)	3x1C(1)	3x1C(1)	3x1C(1)
12	2017	3x1C(1)					
13	2018						
14	2019						
15	2020			2x1C(1)	3x1C(1)		3x1C(1)
16	2021						
17	2022					2x1C(1)	
18	2023						
19	2024	3x1C(1)	3x1C(1)				
20	2025			3x1C(1)			
21	2026				3x1C(1)	3x1C(1)	3x1C(1)
22	2027						
23	2028						
24	2029						
25	2030	2x1C(1)	3x1C(1)				
26	2031			SCCT(1)			
27	2032					SCCT(1)	
28	2033			3x1C(1)	3x1C(1)		3x1C(1)
29	2034					3x1C(1)	
30	2035	2x1C(1)					
31	2036		2x1C(1)				
32	2037						
33	2038						
34	2039	SCCT(1)					
35	2040			SCCT(1)	SCCT(1)		SCCT(1)
36							
37	30 Yr PVRR (\$B)	23.6	23.7	23.8	24.7	24.2	24.8

	A	N	O	P	Q	R
1		12	13	14	15	16
2						
3		<u>TY GR CR</u> <u>TC1</u>	<u>TY GR CR</u> <u>GH4</u>	<u>TY GR CR</u> <u>MC3</u>	<u>TY GR CR</u> <u>GH2</u>	<u>TY GR CR</u> <u>MC1-2</u>
4	2010					
5	2011					
6	2012					
7	2013					
8	2014					
9	2015					
10	2016	3x1C(2)	3x1C(2)	3x1C(2)	3x1C(2)	3x1C(2)
11						
12	2017					
13	2018					
14	2019					
15	2020					3x1C(1)
16	2021		3x1C(1)		3x1C(1)	
17	2022	3x1C(1)		3x1C(1)		
18	2023					
19	2024					
20	2025					
21	2026					2x1C(1)
22	2027					
23	2028	3x1C(1)	3x1C(1)	3x1C(1)	3x1C(1)	
24	2029					
25	2030					
26	2031					3x1C(1)
27	2032					
28	2033					
29	2034		3x1C(1)		3x1C(1)	
30	2035	2x1C(1)		2x1C(1)		
31	2036					
32	2037					SCCT(1)
33	2038					
34	2039					SCCT(1)
35	2040	SCCT(1)		SCCT(1)		
36						
37	30 Yr PVRR (\$B)	26.7	26.9	26.6	27.0	27.5

	A	B	C	D	E	F	G
1			1	2	3	4	5
2		Retire:					
3		<u>No</u>					<u>TY GR3 CR4</u>
4		<u>Retirements</u>	<u>TY</u>	<u>TY GR3</u>	<u>TY GR3 BR3</u>	<u>TY GR3 CR4</u>	<u>CR6</u>
5	2010						
6	2011						
7	2012						
8	2013						
9	2014						
10	2015						
11	2016		3x1C(1)	2x1C(1)	3x1C(1)	3x1C(1)	3x1C(1)
12	2017	3x1C(1)					
13	2018						
14	2019						
15	2020			2x1C(1)	3x1C(1)		3x1C(1)
16	2021						
17	2022					2x1C(1)	
18	2023						
19	2024	3x1C(1)	3x1C(1)				
20	2025			3x1C(1)			
21	2026				3x1C(1)	3x1C(1)	3x1C(1)
22	2027						
23	2028						
24	2029						
25	2030	2x1C(1)	3x1C(1)				
26	2031			SCCT(1)			
27	2032					SCCT(1)	
28	2033			3x1C(1)	3x1C(1)		3x1C(1)
29	2034					3x1C(1)	
30	2035	2x1C(1)					
31	2036		2x1C(1)				
32	2037						
33	2038						
34	2039	SCCT(1)					
35	2040			SCCT(1)	SCCT(1)		SCCT(1)
36							
37	30 Yr PVRR (\$B)	23.6	23.7	23.8	24.7	24.2	24.8

	A	H	I	J	K	L	M
1		6	7	8	9	10	11
2							
3		<u>TY GR3 CR4</u> <u>CR6 BR1-2</u>	<u>TY GR3 CR</u>	<u>TY GR3 CR</u> <u>GH3</u>	<u>TY GR3 CR</u> <u>GH1</u>	<u>TY GR CR</u>	<u>TY GR CR</u> <u>MC4</u>
4	2010						
5	2011						
6	2012						
7	2013						
8	2014						
9	2015						
10	2016	3x1C(1)	3x1C(1)	3x1C(1)	3x1C(2)	3x1C(1)	3x1C(2)
11				2x1C(1)			
12	2017						
13	2018	3x1C(1)				3x1C(1)	
14	2019		3x1C(1)				
15	2020			3x1C(1)			
16	2021						3x1C(1)
17	2022				3x1C(1)		
18	2023						
19	2024	3x1C(1)				3x1C(1)	
20	2025		3x1C(1)				
21	2026			3x1C(1)			
22	2027						
23	2028				3x1C(1)		3x1C(1)
24	2029						
25	2030						
26	2031	3x1C(1)	2x1C(1)			3x1C(1)	
27	2032						
28	2033			3x1C(1)			
29	2034						
30	2035				2x1C(1)		3x1C(1)
31	2036		2x1C(1)				
32	2037	SCCT(1)				SCCT(1)	
33	2038						
34	2039	SCCT(1)				SCCT(1)	
35	2040			SCCT(1)	SCCT(1)		
36							
37	30 Yr PVRR (\$B)	25.5	25.3	26.6	26.6	25.4	26.9

	A	N	O	P	Q	R
1		12	13	14	15	16
2						
3		<u>TY GR CR</u> <u>TC1</u>	<u>TY GR CR</u> <u>GH4</u>	<u>TY GR CR</u> <u>MC3</u>	<u>TY GR CR</u> <u>GH2</u>	<u>TY GR CR</u> <u>MC1-2</u>
4	2010					
5	2011					
6	2012					
7	2013					
8	2014					
9	2015					
10	2016	3x1C(2)	3x1C(2)	3x1C(2)	3x1C(2)	3x1C(2)
11						
12	2017					
13	2018					
14	2019					
15	2020					3x1C(1)
16	2021		3x1C(1)		3x1C(1)	
17	2022	3x1C(1)		3x1C(1)		
18	2023					
19	2024					
20	2025					
21	2026					2x1C(1)
22	2027					
23	2028	3x1C(1)	3x1C(1)	3x1C(1)	3x1C(1)	
24	2029					
25	2030					
26	2031					3x1C(1)
27	2032					
28	2033					
29	2034		3x1C(1)		3x1C(1)	
30	2035	2x1C(1)		2x1C(1)		
31	2036					
32	2037					SCCT(1)
33	2038					
34	2039					SCCT(1)
35	2040	SCCT(1)		SCCT(1)		
36						
37	30 Yr PVRR (\$B)	26.7	26.9	26.6	27.0	27.5

Breakeven RR by Year (\$M)

Year \$	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>
TY	-13	-14	-15	-16	-17	-18	-19	-21	-22	-23
GR3	-80	-86	-91	-98	-104	-111	-119	-127	-135	-144
BR3	603	643	686	732	782	834	890	950	1,013	1,081
CR4	-87	-93	-99	-106	-113	-120	-128	-137	-146	-156
CR6	11	11	12	13	14	15	16	17	18	19
BR1-2	230	245	261	279	298	318	339	362	386	412
CR5	-57	-61	-65	-69	-74	-79	-84	-90	-96	-102
GH3	921	983	1,049	1,119	1,194	1,274	1,360	1,451	1,548	1,652
GH1	800	854	911	973	1,038	1,107	1,182	1,261	1,346	1,436
GR4	-110	-117	-125	-134	-143	-152	-163	-173	-185	-198
MC4	859	917	979	1,044	1,114	1,189	1,269	1,354	1,445	1,542
TC1	996	1,062	1,134	1,210	1,291	1,378	1,470	1,569	1,674	1,786
GH4	1,161	1,239	1,323	1,411	1,506	1,607	1,715	1,830	1,953	2,084
MC3	756	807	861	919	980	1,046	1,116	1,191	1,271	1,356
GH2	1,146	1,223	1,305	1,393	1,486	1,586	1,692	1,806	1,927	2,056
MC1-2	1,022	1,091	1,164	1,242	1,325	1,414	1,509	1,610	1,718	1,833

Breakeven Year

Must Op Thru

BR3	2019
BR1-2	2021
GH3	2020
GH1	2021
MC4	2023
TC1	2018
GH4	2018
MC3	2021
GH2	2018
MC1-2	2024

	A	B	C	D	E	F	G	H	I
1	Station	Unit		2010	2011	2012	2013	2014	2015
2	BR	BR1	BR1FFP 0	0	238	3,127	7,278	12,105	12,775
3	BR	BR1	BR1SAM 0	0	0	0	231	521	550
4	BR	BR2	BR2FFP 0	0	252	3,379	7,865	13,414	13,865
5	BR	BR2	BR2SAM 0	0	0	0	231	534	553
6	BR	BR3	BR3FFP 0	0	0	204	2,854	7,595	13,437
7	GH	GH1	GH1FFP 0	0	64	4,332	10,157	17,736	19,154
8	GH	GH1	GH1SAM 0	0	122	562	1,006	1,964	2,121
9	GH	GH2	GH2FFP 0	0	0	2,787	7,280	15,016	18,298
10	GH	GH2	GH2SAM 0	0	11	724	984	935	891
11	GH	GH3	GH3FFP 0	0	0	0	3,571	8,804	18,270
12	GH	GH3	GH3SAM 0	0	115	565	1,578	1,935	1,853
13	GH	GH4	GH4FFP 0	0	0	0	2,843	7,668	14,952
14	GH	GH4	GH4SAM 0	0	122	527	974	1,948	1,967
15	MC	MC1	MC1FGD 0	0	0	2,360	7,268	12,372	21,934
16	MC	MC1	MC1FFP 0	0	0	1,271	5,238	9,364	17,796
17	MC	MC1	MC1SAM 0	0	0	0	42	560	1,131
18	MC	MC2	MC2FGD 0	0	0	2,361	7,270	12,377	23,214
19	MC	MC2	MC2FFP 0	0	0	1,215	5,051	9,134	18,426
20	MC	MC2	MC2SAM 0	0	0	0	42	560	1,197
21	MC	MC3	MC3FGDU 0	0	0	646	3,668	6,975	9,472
22	MC	MC3	MC3FGDR 0	0	0	0	0	39	175
23	MC	MC3	MC3FFP 0	0	0	0	3,730	8,326	13,896
24	MC	MC3	MC3SAM 0	0	0	734	1,992	2,100	1,997
25	MC	MC4	MC4FGD 0	0	379	6,987	15,193	21,072	28,573
26	MC	MC4	MC4SCR 0	0	105	667	724	688	655
27	MC	MC4	MC4FFP 0	0	377	5,055	10,178	14,629	19,836
28	MC	MC4	MC4SAM 0	0	0	0	578	1,620	2,201
29	TC	TC1	TC1FFP 0	0	0	0	2,200	5,745	11,967
30	CR	CR4	CR4FGD 0	0	394	3,222	13,574	27,295	25,773
31	CR	CR4	CR4SCR 0	64	390	2,395	6,163	10,786	10,183
32	CR	CR4	CR4FF 0	0	280	1,715	3,329	5,526	5,216
33	CR	CR4	CR4PAC 0	0	0	0	235	386	365
34	CR	CR4	CR4LIME 0	0	0	0	259	427	403
35	CR	CR5	CR5FGD 0	0	359	3,311	14,658	29,304	27,663
36	CR	CR5	CR5SCR 0	63	388	2,719	6,475	11,557	10,908
37	CR	CR5	CR5FF 0	0	300	1,823	3,531	5,992	5,654
38	CR	CR5	CR5PAC 0	0	0	0	251	423	399
39	CR	CR5	CR5LIME 0	0	0	0	278	468	441
40	CR	CR6	CR6FGD 0	0	346	3,887	18,407	35,115	33,170
41	CR	CR6	CR6SCR 0	79	1,294	4,201	8,457	14,206	13,414
42	CR	CR6	CR6FF 0	0	394	2,364	4,540	7,252	6,848
43	CR	CR6	CR6PAC 0	0	0	0	352	558	527
44	CR	CR6	CR6LIME 0	0	0	0	391	619	585
45	GR	GR3	GR3SFF 0	0	0	1,323	4,035	5,553	5,254
46	GR	GR3	GR3PAC 0	0	0	0	112	154	145

	A	B	C	D	E	F	G	H	I
1	Station	Unit		2010	2011	2012	2013	2014	2015
47	GR	GR4	GR4SFF 0	0	0	1,885	5,750	8,517	8,050
48	GR	GR4	GR4PAC 0	0	0	0	160	235	223

	A	B	J	K	L	M	N	O	P
1	Station	Unit	2016	2017	2018	2019	2020	2021	2022
2	BR	BR1	12,123	11,534	10,999	10,472	9,946	9,420	8,894
3	BR	BR1	522	497	474	452	429	407	384
4	BR	BR2	13,156	12,514	11,931	11,357	10,783	10,210	9,636
5	BR	BR2	525	499	476	453	431	408	385
6	BR	BR3	14,120	13,404	12,757	12,171	11,595	11,019	10,443
7	GH	GH1	18,156	17,246	16,412	15,591	14,769	13,948	13,127
8	GH	GH1	2,010	1,909	1,817	1,726	1,635	1,544	1,453
9	GH	GH2	17,569	16,777	16,056	15,369	14,684	13,998	13,313
10	GH	GH2	851	814	779	744	709	674	639
11	GH	GH3	21,813	20,853	19,901	19,030	18,199	17,369	16,538
12	GH	GH3	1,769	1,691	1,618	1,544	1,471	1,397	1,324
13	GH	GH4	21,319	20,238	19,257	18,361	17,541	16,757	15,973
14	GH	GH4	1,872	1,786	1,707	1,631	1,555	1,479	1,403
15	MC	MC1	23,856	22,601	21,453	20,399	19,360	18,320	17,281
16	MC	MC1	19,361	18,343	17,414	16,559	15,717	14,875	14,032
17	MC	MC1	1,232	1,168	1,109	1,055	1,001	948	895
18	MC	MC2	24,770	23,450	22,238	21,119	20,015	18,911	17,806
19	MC	MC2	19,666	18,620	17,659	16,772	15,896	15,021	14,145
20	MC	MC2	1,279	1,211	1,149	1,092	1,035	978	922
21	MC	MC3	9,135	8,699	8,295	7,908	7,522	7,135	6,748
22	MC	MC3	207	197	187	179	170	162	154
23	MC	MC3	18,276	17,601	16,757	15,977	15,228	14,480	13,732
24	MC	MC3	1,901	1,813	1,728	1,642	1,557	1,472	1,387
25	MC	MC4	27,555	26,231	25,008	23,834	22,662	21,491	20,319
26	MC	MC4	625	596	566	537	508	479	449
27	MC	MC4	19,129	18,210	17,361	16,546	15,733	14,919	14,106
28	MC	MC4	2,123	2,022	1,929	1,839	1,749	1,660	1,570
29	TC	TC1	15,834	15,223	14,502	13,838	13,200	12,564	11,927
30	CR	CR4	24,370	23,071	21,861	20,666	19,471	18,276	17,081
31	CR	CR4	9,627	9,112	8,633	8,160	7,687	7,214	6,740
32	CR	CR4	4,930	4,666	4,421	4,178	3,935	3,692	3,450
33	CR	CR4	345	327	310	293	276	259	242
34	CR	CR4	381	361	342	323	305	286	267
35	CR	CR5	26,148	24,742	23,429	22,132	20,835	19,538	18,241
36	CR	CR5	10,308	9,752	9,234	8,721	8,208	7,696	7,183
37	CR	CR5	5,343	5,054	4,785	4,519	4,253	3,987	3,721
38	CR	CR5	378	357	338	320	301	282	263
39	CR	CR5	417	395	374	353	333	312	291
40	CR	CR6	31,385	29,739	28,213	26,706	25,199	23,692	22,185
41	CR	CR6	12,689	12,019	11,399	10,787	10,175	9,563	8,951
42	CR	CR6	6,477	6,136	5,819	5,507	5,194	4,882	4,569
43	CR	CR6	499	473	448	424	401	377	353
44	CR	CR6	553	525	498	471	445	418	391
45	GR	GR3	4,983	4,739	4,516	4,297	4,078	3,859	3,640
46	GR	GR3	138	131	125	119	113	107	101

	A	B	J	K	L	M	N	O	P
1	Station	Unit	2016	2017	2018	2019	2020	2021	2022
47	GR	GR4	7,626	7,237	6,881	6,529	6,177	5,825	5,473
48	GR	GR4	211	200	190	181	171	161	152

	A	B	Q	R	S	T	U	V	W
1	Station	Unit	2023	2024	2025	2026	2027	2028	2029
2	BR	BR1	8,368	7,842	7,483	7,291	7,099	6,908	6,716
3	BR	BR1	362	339	324	315	307	299	291
4	BR	BR2	9,062	8,488	8,095	7,881	7,668	7,455	7,242
5	BR	BR2	362	340	324	315	307	298	290
6	BR	BR3	9,867	9,290	8,714	8,325	8,122	7,920	7,717
7	GH	GH1	12,305	11,484	10,897	10,545	10,193	9,841	9,489
8	GH	GH1	1,362	1,271	1,206	1,167	1,128	1,089	1,050
9	GH	GH2	12,627	11,942	11,257	10,791	10,556	10,330	10,104
10	GH	GH2	605	570	546	535	523	511	500
11	GH	GH3	15,708	14,877	14,047	13,216	12,647	12,344	12,047
12	GH	GH3	1,250	1,177	1,126	1,099	1,073	1,047	1,020
13	GH	GH4	15,188	14,404	13,619	12,835	12,050	11,513	11,223
14	GH	GH4	1,328	1,252	1,176	1,124	1,096	1,068	1,039
15	MC	MC1	16,242	15,203	14,164	13,412	12,949	12,485	12,022
16	MC	MC1	13,190	12,348	11,506	10,896	10,520	10,143	9,767
17	MC	MC1	841	788	735	696	672	648	624
18	MC	MC2	16,702	15,598	14,494	13,677	13,148	12,618	12,088
19	MC	MC2	13,270	12,395	11,519	10,871	10,450	10,029	9,608
20	MC	MC2	865	808	752	710	682	655	627
21	MC	MC3	6,362	5,975	5,589	5,303	5,124	4,950	4,777
22	MC	MC3	145	137	128	121	115	111	107
23	MC	MC3	12,985	12,237	11,489	10,742	10,190	9,844	9,510
24	MC	MC3	1,302	1,217	1,155	1,116	1,077	1,039	1,000
25	MC	MC4	19,147	17,976	16,804	15,940	15,402	14,880	14,358
26	MC	MC4	420	399	386	372	359	346	332
27	MC	MC4	13,293	12,479	11,666	11,066	10,692	10,330	9,968
28	MC	MC4	1,480	1,391	1,301	1,235	1,193	1,153	1,112
29	TC	TC1	11,291	10,654	10,018	9,381	8,918	8,637	8,363
30	CR	CR4	15,886	14,691	13,773	13,130	12,488	11,845	11,203
31	CR	CR4	6,267	5,794	5,431	5,177	4,924	4,671	4,417
32	CR	CR4	3,207	2,964	2,778	2,648	2,519	2,389	2,260
33	CR	CR4	225	208	195	186	177	168	159
34	CR	CR4	249	230	216	206	195	185	175
35	CR	CR5	16,944	15,647	14,641	13,924	13,207	12,490	11,774
36	CR	CR5	6,670	6,158	5,760	5,478	5,196	4,914	4,632
37	CR	CR5	3,455	3,189	2,983	2,837	2,691	2,545	2,399
38	CR	CR5	245	226	212	201	191	180	170
39	CR	CR5	271	250	234	222	211	199	188
40	CR	CR6	20,678	19,171	18,033	17,265	16,496	15,727	14,959
41	CR	CR6	8,339	7,727	7,266	6,956	6,646	6,337	6,027
42	CR	CR6	4,257	3,944	3,709	3,551	3,393	3,235	3,077
43	CR	CR6	329	305	287	275	262	250	238
44	CR	CR6	365	338	318	305	291	278	264
45	GR	GR3	3,421	3,202	3,050	2,967	2,884	2,800	2,717
46	GR	GR3	95	89	85	82	80	78	75

	A	B	Q	R	S	T	U	V	W
1	Station	Unit	2023	2024	2025	2026	2027	2028	2029
47	GR	GR4	5,122	4,770	4,515	4,356	4,198	4,040	3,881
48	GR	GR4	142	132	125	121	116	112	108

	A	B	X	Y	Z	AA	AB	AC	AD
1	Station	Unit	2030	2031	2032	2033	2034	2035	2036
2	BR	BR1	6,525	6,333	6,141	5,950	5,758	5,566	5,375
3	BR	BR1	282	274	266	257	249	241	232
4	BR	BR2	7,028	6,815	6,602	6,388	6,175	5,962	5,749
5	BR	BR2	281	273	264	256	247	239	230
6	BR	BR3	7,514	7,311	7,109	6,906	6,703	6,501	6,298
7	GH	GH1	9,137	8,785	8,433	8,081	7,729	7,377	7,025
8	GH	GH1	1,011	972	933	894	855	816	777
9	GH	GH2	9,878	9,652	9,425	9,199	8,973	8,747	8,521
10	GH	GH2	488	476	464	453	441	429	418
11	GH	GH3	11,750	11,452	11,155	10,858	10,561	10,263	9,966
12	GH	GH3	994	967	941	915	888	862	835
13	GH	GH4	10,932	10,642	10,352	10,061	9,771	9,481	9,190
14	GH	GH4	1,011	983	955	927	899	870	842
15	MC	MC1	11,558	11,095	10,631	10,167	9,704	9,240	8,777
16	MC	MC1	9,390	9,013	8,637	8,260	7,884	7,507	7,130
17	MC	MC1	600	576	552	528	504	480	455
18	MC	MC2	11,558	11,028	10,499	9,969	9,439	8,909	2,908
19	MC	MC2	9,187	8,766	8,344	7,923	7,502	7,081	2,311
20	MC	MC2	600	572	545	517	490	462	151
21	MC	MC3	4,603	4,429	4,256	4,082	3,909	3,735	3,561
22	MC	MC3	104	100	96	92	88	85	81
23	MC	MC3	9,175	8,841	8,506	8,172	7,837	7,503	7,168
24	MC	MC3	961	923	884	846	807	768	730
25	MC	MC4	13,836	13,314	12,792	12,270	11,748	11,226	10,705
26	MC	MC4	319	306	292	279	266	252	239
27	MC	MC4	9,605	9,243	8,881	8,518	8,156	7,794	7,431
28	MC	MC4	1,072	1,031	991	951	910	870	829
29	TC	TC1	8,089	7,815	7,541	7,267	6,993	6,719	6,445
30	CR	CR4	10,560	0	0	0	0	0	0
31	CR	CR4	4,164	0	0	0	0	0	0
32	CR	CR4	2,130	0	0	0	0	0	0
33	CR	CR4	150	0	0	0	0	0	0
34	CR	CR4	165	0	0	0	0	0	0
35	CR	CR5	0	0	0	0	0	0	0
36	CR	CR5	0	0	0	0	0	0	0
37	CR	CR5	0	0	0	0	0	0	0
38	CR	CR5	0	0	0	0	0	0	0
39	CR	CR5	0	0	0	0	0	0	0
40	CR	CR6	14,190	13,421	12,653	0	0	0	0
41	CR	CR6	5,717	5,408	5,098	0	0	0	0
42	CR	CR6	2,919	2,761	2,602	0	0	0	0
43	CR	CR6	226	213	201	0	0	0	0
44	CR	CR6	250	237	223	0	0	0	0
45	GR	GR3	2,634	2,550	2,467	2,384	2,300	2,217	2,134
46	GR	GR3	73	71	68	66	64	62	59

	A	B	X	Y	Z	AA	AB	AC	AD
1	Station	Unit	2030	2031	2032	2033	2034	2035	2036
47	GR	GR4	3,723	3,565	3,407	3,248	3,090	2,932	2,773
48	GR	GR4	103	99	94	90	86	81	77

	A	B	AE	AF	AG	AH	AI	AJ	AK
1	Station	Unit	2037	2038	2039	2040	2041	2042	2043
2	BR	BR1	5,183	4,991	4,800	4,608	4,417	4,225	4,033
3	BR	BR1	224	216	208	199	191	183	174
4	BR	BR2	5,535	5,322	5,109	4,895	4,682	4,469	4,256
5	BR	BR2	222	213	205	196	187	179	170
6	BR	BR3	6,095	5,893	5,690	5,487	5,284	5,082	4,879
7	GH	GH1	6,673	6,321	5,969	2,424	0	0	0
8	GH	GH1	738	699	661	268	0	0	0
9	GH	GH2	8,295	8,069	7,843	7,617	7,391	7,165	6,939
10	GH	GH2	406	394	383	371	359	348	336
11	GH	GH3	9,669	9,372	9,075	8,777	8,480	8,183	7,886
12	GH	GH3	809	782	756	730	703	677	650
13	GH	GH4	8,900	8,610	8,319	8,029	7,739	7,448	7,158
14	GH	GH4	814	786	758	730	701	673	645
15	MC	MC1	8,313	7,850	3,188	0	0	0	0
16	MC	MC1	6,754	6,377	2,590	0	0	0	0
17	MC	MC1	431	407	165	0	0	0	0
18	MC	MC2	0	0	0	0	0	0	0
19	MC	MC2	0	0	0	0	0	0	0
20	MC	MC2	0	0	0	0	0	0	0
21	MC	MC3	3,388	3,214	3,040	2,653	188	0	0
22	MC	MC3	77	73	69	64	44	0	0
23	MC	MC3	6,834	6,499	6,165	5,830	4,673	341	0
24	MC	MC3	691	652	213	0	0	0	0
25	MC	MC4	10,183	9,661	9,139	7,976	573	0	0
26	MC	MC4	226	92	0	0	0	0	0
27	MC	MC4	7,069	6,707	6,344	5,537	398	0	0
28	MC	MC4	789	748	708	618	44	0	0
29	TC	TC1	6,171	5,897	5,623	5,349	5,075	4,801	4,186
30	CR	CR4	0	0	0	0	0	0	0
31	CR	CR4	0	0	0	0	0	0	0
32	CR	CR4	0	0	0	0	0	0	0
33	CR	CR4	0	0	0	0	0	0	0
34	CR	CR4	0	0	0	0	0	0	0
35	CR	CR5	0	0	0	0	0	0	0
36	CR	CR5	0	0	0	0	0	0	0
37	CR	CR5	0	0	0	0	0	0	0
38	CR	CR5	0	0	0	0	0	0	0
39	CR	CR5	0	0	0	0	0	0	0
40	CR	CR6	0	0	0	0	0	0	0
41	CR	CR6	0	0	0	0	0	0	0
42	CR	CR6	0	0	0	0	0	0	0
43	CR	CR6	0	0	0	0	0	0	0
44	CR	CR6	0	0	0	0	0	0	0
45	GR	GR3	2,050	1,967	1,884	1,800	1,717	1,634	1,550
46	GR	GR3	57	55	52	50	48	45	43

	A	B	AE	AF	AG	AH	AI	AJ	AK
1	Station	Unit	2037	2038	2039	2040	2041	2042	2043
47	GR	GR4	2,615	0	0	0	0	0	0
48	GR	GR4	73	0	0	0	0	0	0

	A	B	AL	AM	AN	AO	AP	AQ	AR
1	Station	Unit	2044	2045	2046	2047	2048	2049	2050
2	BR	BR1	3,842	3,650	3,458	3,267	1,327	0	0
3	BR	BR1	166	158	150	141	57	0	0
4	BR	BR2	4,042	3,829	3,616	1,180	0	0	0
5	BR	BR2	162	153	145	47	0	0	0
6	BR	BR3	4,676	4,474	4,271	4,068	3,865	3,663	3,460
7	GH	GH1	0	0	0	0	0	0	0
8	GH	GH1	0	0	0	0	0	0	0
9	GH	GH2	6,713	6,486	6,260	6,034	5,808	5,582	5,356
10	GH	GH2	324	312	301	289	277	266	254
11	GH	GH3	7,588	7,291	6,994	6,697	6,400	6,102	5,805
12	GH	GH3	624	598	571	545	518	492	465
13	GH	GH4	6,867	6,577	6,287	5,996	5,706	5,416	5,125
14	GH	GH4	617	589	561	532	504	476	117
15	MC	MC1	0	0	0	0	0	0	0
16	MC	MC1	0	0	0	0	0	0	0
17	MC	MC1	0	0	0	0	0	0	0
18	MC	MC2	0	0	0	0	0	0	0
19	MC	MC2	0	0	0	0	0	0	0
20	MC	MC2	0	0	0	0	0	0	0
21	MC	MC3	0	0	0	0	0	0	0
22	MC	MC3	0	0	0	0	0	0	0
23	MC	MC3	0	0	0	0	0	0	0
24	MC	MC3	0	0	0	0	0	0	0
25	MC	MC4	0	0	0	0	0	0	0
26	MC	MC4	0	0	0	0	0	0	0
27	MC	MC4	0	0	0	0	0	0	0
28	MC	MC4	0	0	0	0	0	0	0
29	TC	TC1	261	0	0	0	0	0	0
30	CR	CR4	0	0	0	0	0	0	0
31	CR	CR4	0	0	0	0	0	0	0
32	CR	CR4	0	0	0	0	0	0	0
33	CR	CR4	0	0	0	0	0	0	0
34	CR	CR4	0	0	0	0	0	0	0
35	CR	CR5	0	0	0	0	0	0	0
36	CR	CR5	0	0	0	0	0	0	0
37	CR	CR5	0	0	0	0	0	0	0
38	CR	CR5	0	0	0	0	0	0	0
39	CR	CR5	0	0	0	0	0	0	0
40	CR	CR6	0	0	0	0	0	0	0
41	CR	CR6	0	0	0	0	0	0	0
42	CR	CR6	0	0	0	0	0	0	0
43	CR	CR6	0	0	0	0	0	0	0
44	CR	CR6	0	0	0	0	0	0	0
45	GR	GR3	1,467	1,384	0	0	0	0	0
46	GR	GR3	41	38	0	0	0	0	0

	A	B	AL	AM	AN	AO	AP	AQ	AR
1	Station	Unit	2044	2045	2046	2047	2048	2049	2050
47	GR	GR4	0	0	0	0	0	0	0
48	GR	GR4	0	0	0	0	0	0	0

	A	B	AS	AT	AU	AV	AW	AX	AY
1	Station	Unit	2051	2052	2053	2054	2055	2056	2057
2	BR	BR1	0	0	0	0	0	0	0
3	BR	BR1	0	0	0	0	0	0	0
4	BR	BR2	0	0	0	0	0	0	0
5	BR	BR2	0	0	0	0	0	0	0
6	BR	BR3	1,405	0	0	0	0	0	0
7	GH	GH1	0	0	0	0	0	0	0
8	GH	GH1	0	0	0	0	0	0	0
9	GH	GH2	5,130	4,904	4,678	4,452	4,226	4,000	3,489
10	GH	GH2	242	231	219	207	196	0	0
11	GH	GH3	5,508	5,211	4,152	214	0	0	0
12	GH	GH3	405	21	0	0	0	0	0
13	GH	GH4	4,835	0	0	0	0	0	0
14	GH	GH4	0	0	0	0	0	0	0
15	MC	MC1	0	0	0	0	0	0	0
16	MC	MC1	0	0	0	0	0	0	0
17	MC	MC1	0	0	0	0	0	0	0
18	MC	MC2	0	0	0	0	0	0	0
19	MC	MC2	0	0	0	0	0	0	0
20	MC	MC2	0	0	0	0	0	0	0
21	MC	MC3	0	0	0	0	0	0	0
22	MC	MC3	0	0	0	0	0	0	0
23	MC	MC3	0	0	0	0	0	0	0
24	MC	MC3	0	0	0	0	0	0	0
25	MC	MC4	0	0	0	0	0	0	0
26	MC	MC4	0	0	0	0	0	0	0
27	MC	MC4	0	0	0	0	0	0	0
28	MC	MC4	0	0	0	0	0	0	0
29	TC	TC1	0	0	0	0	0	0	0
30	CR	CR4	0	0	0	0	0	0	0
31	CR	CR4	0	0	0	0	0	0	0
32	CR	CR4	0	0	0	0	0	0	0
33	CR	CR4	0	0	0	0	0	0	0
34	CR	CR4	0	0	0	0	0	0	0
35	CR	CR5	0	0	0	0	0	0	0
36	CR	CR5	0	0	0	0	0	0	0
37	CR	CR5	0	0	0	0	0	0	0
38	CR	CR5	0	0	0	0	0	0	0
39	CR	CR5	0	0	0	0	0	0	0
40	CR	CR6	0	0	0	0	0	0	0
41	CR	CR6	0	0	0	0	0	0	0
42	CR	CR6	0	0	0	0	0	0	0
43	CR	CR6	0	0	0	0	0	0	0
44	CR	CR6	0	0	0	0	0	0	0
45	GR	GR3	0	0	0	0	0	0	0
46	GR	GR3	0	0	0	0	0	0	0

	A	B	AS	AT	AU	AV	AW	AX	AY
1	Station	Unit	2051	2052	2053	2054	2055	2056	2057
47	GR	GR4	0	0	0	0	0	0	0
48	GR	GR4	0	0	0	0	0	0	0

	A	B	AZ	BA
1	Station	Unit	2058	2059
2	BR	BR1	0	0
3	BR	BR1	0	0
4	BR	BR2	0	0
5	BR	BR2	0	0
6	BR	BR3	0	0
7	GH	GH1	0	0
8	GH	GH1	0	0
9	GH	GH2	253	0
10	GH	GH2	0	0
11	GH	GH3	0	0
12	GH	GH3	0	0
13	GH	GH4	0	0
14	GH	GH4	0	0
15	MC	MC1	0	0
16	MC	MC1	0	0
17	MC	MC1	0	0
18	MC	MC2	0	0
19	MC	MC2	0	0
20	MC	MC2	0	0
21	MC	MC3	0	0
22	MC	MC3	0	0
23	MC	MC3	0	0
24	MC	MC3	0	0
25	MC	MC4	0	0
26	MC	MC4	0	0
27	MC	MC4	0	0
28	MC	MC4	0	0
29	TC	TC1	0	0
30	CR	CR4	0	0
31	CR	CR4	0	0
32	CR	CR4	0	0
33	CR	CR4	0	0
34	CR	CR4	0	0
35	CR	CR5	0	0
36	CR	CR5	0	0
37	CR	CR5	0	0
38	CR	CR5	0	0
39	CR	CR5	0	0
40	CR	CR6	0	0
41	CR	CR6	0	0
42	CR	CR6	0	0
43	CR	CR6	0	0
44	CR	CR6	0	0
45	GR	GR3	0	0
46	GR	GR3	0	0

	A	B	AZ	BA
1	Station	Unit	2058	2059
47	GR	GR4	0	0
48	GR	GR4	0	0

	2010	2011	2012	2013	2014	2015
Retirement Cost						
All Units	0	0	0	0	0	0

2% Escalation Rate

Unit Costs (\$000)						
BR	BR1	3,816	4,811	3,969	4,049	4,130
BR	BR2	6,633	7,160	7,253	7,398	7,546
BR	BR3	15,885	20,876	14,904	15,202	15,506
CR	CR4	14,372	9,218	12,029	12,269	12,515
CR	CR5	11,842	9,889	12,791	13,047	13,308
CR	CR6	10,666	11,619	10,173	10,376	10,584
GH	GH1	17,829	19,141	17,966	18,325	18,691
GH	GH2	12,225	18,498	13,429	13,698	13,972
GH	GH3	17,961	13,501	12,475	12,724	12,979
GH	GH4	11,533	13,496	12,105	12,347	12,594
GR	GR3	4,270	5,792	4,360	4,447	4,536
GR	GR4	7,338	6,924	8,633	8,805	8,982
MC	MC1	11,892	17,333	12,669	12,923	13,181
MC	MC2	16,179	11,941	15,201	15,505	15,815
MC	MC3	18,313	14,238	17,221	17,566	17,917
MC	MC4	16,531	18,981	17,245	17,590	17,942
TC	TC1	17,205	15,170	17,403	17,751	18,106
TY	TY3	410	416	418	427	435

	2016	2017	2018	2019	2020	2021	2022
Retirement Cost							
All Units	2100	0	0	0	0	0	0

Escalation Rate

Unit Costs (\$000)							
BR1	4,212	4,296	4,382	4,470	4,559	4,651	4,744
BR2	7,697	7,851	8,008	8,168	8,331	8,498	8,668
BR3	15,816	16,132	16,455	16,784	17,120	17,462	17,811
CR4	12,765	13,020	13,281	13,546	13,817	14,094	14,375
CR5	13,574	13,845	14,122	14,405	14,693	14,987	15,286
CR6	10,795	11,011	11,231	11,456	11,685	11,919	12,157
GH1	19,065	19,447	19,835	20,232	20,637	21,050	21,471
GH2	14,251	14,536	14,827	15,124	15,426	15,735	16,049
GH3	13,238	13,503	13,773	14,049	14,330	14,616	14,909
GH4	12,846	13,103	13,365	13,632	13,905	14,183	14,467
GR3	4,627	4,719	4,813	4,910	5,008	5,108	5,210
GR4	9,161	9,344	9,531	9,722	9,916	10,115	10,317
MC1	13,445	13,714	13,988	14,268	14,553	14,844	15,141
MC2	16,131	16,454	16,783	17,118	17,461	17,810	18,166
MC3	18,275	18,641	19,014	19,394	19,782	20,177	20,581
MC4	18,300	18,666	19,040	19,421	19,809	20,205	20,609
TC1	18,468	18,837	19,214	19,598	19,990	20,390	20,798
TY3	444	453	462	471	480	490	500

	2023	2024	2025	2026	2027	2028	2029
Retirement Cost							
All Units	0	0	0	0	0	0	0

Escalation Rate

Unit Costs (\$000)	2023	2024	2025	2026	2027	2028	2029
BR1	4,838	4,935	5,034	5,135	5,237	5,342	5,449
BR2	8,841	9,018	9,199	9,383	9,570	9,762	9,957
BR3	18,167	18,531	18,901	19,279	19,665	20,058	20,460
CR4	14,663	14,956	15,255	15,560	15,872	16,189	16,513
CR5	15,592	15,904	16,222	16,546	16,877	17,215	17,559
CR6	12,400	12,648	12,901	13,159	13,423	13,691	13,965
GH1	21,900	22,338	22,785	23,240	23,705	24,179	24,663
GH2	16,370	16,698	17,032	17,372	17,720	18,074	18,436
GH3	15,207	15,511	15,821	16,138	16,460	16,790	17,125
GH4	14,756	15,051	15,352	15,659	15,973	16,292	16,618
GR3	5,314	5,421	5,529	5,640	5,753	5,868	5,985
GR4	10,523	10,734	10,949	11,167	11,391	11,619	11,851
MC1	15,444	15,753	16,068	16,389	16,717	17,051	17,392
MC2	18,530	18,900	19,278	19,664	20,057	20,458	20,867
MC3	20,993	21,412	21,841	22,278	22,723	23,178	23,641
MC4	21,021	21,442	21,871	22,308	22,754	23,209	23,674
TC1	21,214	21,638	22,071	22,512	22,962	23,422	23,890
TY3	510	520	530	541	552	563	574

	2030	2031	2032	2033	2034	2035	2036
Retirement Cost							
All Units	0	0	0	0	0	0	0

Escalation Rate

Unit Costs (\$000)	2030	2031	2032	2033	2034	2035	2036
BR1	5,558	5,669	5,782	5,898	6,016	6,136	6,259
BR2	10,156	10,359	10,566	10,778	10,993	11,213	11,437
BR3	20,869	21,286	21,712	22,146	22,589	23,041	23,502
CR4	16,843	17,180	17,524	17,874	18,232	18,596	18,968
CR5	17,910	18,269	18,634	19,007	19,387	19,775	20,170
CR6	14,244	14,529	14,820	15,116	15,418	15,727	16,041
GH1	25,156	25,659	26,172	26,696	27,230	27,774	28,330
GH2	18,804	19,181	19,564	19,955	20,355	20,762	21,177
GH3	17,468	17,817	18,174	18,537	18,908	19,286	19,672
GH4	16,950	17,289	17,635	17,988	18,347	18,714	19,089
GR3	6,105	6,227	6,351	6,478	6,608	6,740	6,875
GR4	12,088	12,330	12,576	12,828	13,084	13,346	13,613
MC1	17,740	18,095	18,457	18,826	19,202	19,586	19,978
MC2	21,285	21,710	22,145	22,587	23,039	23,500	23,970
MC3	24,114	24,596	25,088	25,590	26,102	26,624	27,156
MC4	24,147	24,630	25,123	25,625	26,138	26,660	27,194
TC1	24,368	24,855	25,352	25,859	26,377	26,904	27,442
TY3	586	597	609	622	634	647	660

	2037	2038	2039	2040
Retirement Cost				
All Units	0	0	0	0

Escalation Rate

Unit Costs (\$000)				
BR1	6,384	6,512	6,642	6,775
BR2	11,666	11,899	12,137	12,380
BR3	23,972	24,451	24,940	25,439
CR4	19,347	19,734	20,129	20,532
CR5	20,573	20,985	21,405	21,833
CR6	16,362	16,689	17,023	17,364
GH1	28,897	29,474	30,064	30,665
GH2	21,600	22,032	22,473	22,923
GH3	20,065	20,466	20,876	21,293
GH4	19,470	19,860	20,257	20,662
GR3	7,012	7,153	7,296	7,442
GR4	13,885	14,163	14,446	14,735
MC1	20,378	20,785	21,201	21,625
MC2	24,449	24,938	25,437	25,946
MC3	27,699	28,253	28,818	29,395
MC4	27,737	28,292	28,858	29,435
TC1	27,991	28,551	29,122	29,704
TY3	673	686	700	714

Escalation Rate: 2% Year \$: 2010
Fixed O&M

		<u>Month</u>	<u>Year</u>	<u>Equipment</u>	<u>\$/yr</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>
BR	BR1	5	2014	PJFF/PAC		0	0	0	598,882
BR	BR1	5	2014	SAM Mitigation		0	0	0	78,540
BR	BR2	4	2014	PJFF/PAC		0	0	0	714,168
BR	BR2	4	2014	SAM Mitigation		0	0	0	134,640
BR	BR3	5	2015	PJFF/PAC		0	0	0	0
GH	GH1	5	2014	PJFF/PAC		0	0	0	1,293,082
GH	GH1	5	2014	SCR Turn-Down		0	0	0	0
GH	GH1	2	2013	SAM Mitigation		0	0	0	4,899
GH	GH2	11	2014	PJFF/PAC		0	0	0	777,600
GH	GH2	12	2012	Sorbent Injection		0	8,064	98,700	100,674
GH	GH3	10	2015	PJFF/PAC		0	0	0	0
GH	GH3	11	2013	SCR Turn-Down		0	0	0	0
GH	GH3	2	2013	SAM Mitigation		0	0	0	0
GH	GH4	12	2015	PJFF/PAC		0	0	0	0
GH	GH4	3	2014	SCR Turn-Down		0	0	0	0
GH	GH4	2	2013	SAM Mitigation		0	0	0	0
MC	MC1	5	2015	Combined 1&2 FGD		0	0	0	0
MC	MC1	5	2015	PJFF/PAC		0	0	0	0
MC	MC1	5	2015	SAM Mitigation		0	0	0	0
MC	MC2	4	2015	Combined 1&2 FGD		0	0	0	0
MC	MC2	4	2015	PJFF/PAC		0	0	0	0
MC	MC2	4	2015	SAM Mitigation		0	0	0	0
MC	MC3	11	2014	FGD		0	0	0	0
MC	MC3	10	2015	PJFF/PAC		0	0	0	0
MC	MC3	4	2013	SAM Mitigation		0	0	24,068	36,824
MC	MC3	4	2013	SCR Turn-Down		0	0	0	0
MC	MC4	11	2014	FGD		0	0	0	0
MC	MC4	11	2014	PJFF/PAC		0	0	0	743,376
MC	MC4	11	2014	SAM Mitigation		0	0	0	3,095
MC	MC4	11	2014	SCR Turn-Down		0	0	0	0
TC	TC1	11	2015	PJFF/PAC		0	0	0	0
CR	CR4	1	2016	SCR	1,871,000	0	0	0	0
CR	CR4	1	2016	WFGD		0	0	0	0
CR	CR4	1	2016	PJFF	1,191,000	0	0	0	0
CR	CR4	1	2016	SAM Mitigation	174,000	0	0	0	0
CR	CR4	1	2016	PAC Injection	169,000	0	0	0	0
CR	CR5	1	2016	SCR	1,993,000	0	0	0	0
CR	CR5	1	2016	WFGD		0	0	0	0
CR	CR5	1	2016	PJFF	1,251,000	0	0	0	0
CR	CR5	1	2016	SAM Mitigation	177,000	0	0	0	0
CR	CR5	1	2016	PAC Injection	172,000	0	0	0	0
CR	CR6	1	2016	SCR	2,392,000	0	0	0	0
CR	CR6	1	2016	WFGD		0	0	0	0
CR	CR6	1	2016	PJFF	1,632,000	0	0	0	0

2% Year \$: 2010
 Fixed O&M

<u>Year</u>	<u>Equipment</u>	<u>\$/yr</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>
2014	PJFF/PAC		610,860	623,077	635,538	648,249	661,214	674,439
2014	SAM Mitigation		137,333	140,079	142,881	145,739	148,653	151,627
2014	PJFF/PAC		728,451	743,020	757,880	773,038	788,499	804,269
2014	SAM Mitigation		137,333	140,079	142,881	145,739	148,653	151,627
2015	PJFF/PAC		1,067,560	1,088,911	1,110,689	1,132,903	1,155,561	1,178,672
2014	PJFF/PAC		1,318,944	1,345,322	1,372,229	1,399,673	1,427,667	1,456,220
2014	SCR Turn-Down		0	0	0	0	0	0
2013	SAM Mitigation		0	0	0	0	0	0
2014	PJFF/PAC		1,586,304	1,618,030	1,650,391	1,683,399	1,717,067	1,751,408
2012	Sorbent Injection		102,687	104,741	106,836	108,973	111,152	113,375
2015	PJFF/PAC		652,436	1,330,969	1,357,589	1,384,741	1,412,435	1,440,684
2013	SCR Turn-Down		0	0	0	0	0	0
2013	SAM Mitigation		0	0	0	0	0	0
2015	PJFF/PAC		631,870	1,289,014	1,314,795	1,341,091	1,367,912	1,395,271
2014	SCR Turn-Down		0	0	0	0	0	0
2013	SAM Mitigation		0	0	0	0	0	0
2015	Combined 1&2 FGD		-238,642	-219,636	-200,250	-180,476	-160,306	-139,733
2015	PJFF/PAC		1,446,222	1,475,147	1,504,650	1,534,743	1,565,438	1,596,746
2015	SAM Mitigation		22,100	38,643	39,416	40,204	41,008	41,828
2015	Combined 1&2 FGD		186,506	205,512	224,899	244,673	264,842	285,415
2015	PJFF/PAC		1,418,867	1,447,245	1,476,189	1,505,713	1,535,828	1,566,544
2015	SAM Mitigation		25,257	38,643	39,416	40,204	41,008	41,828
2014	FGD		0	0	0	0	0	0
2015	PJFF/PAC		646,753	1,319,377	1,345,764	1,372,679	1,400,133	1,428,136
2013	SAM Mitigation		37,560	38,312	39,078	39,859	40,657	41,470
2013	SCR Turn-Down		0	0	0	0	0	0
2014	FGD		0	0	0	0	0	0
2014	PJFF/PAC		1,516,487	1,546,817	1,577,754	1,609,309	1,641,495	1,674,325
2014	SAM Mitigation		37,885	38,643	39,416	40,204	41,008	41,828
2014	SCR Turn-Down		0	0	0	0	0	0
2015	PJFF/PAC		493,761	1,007,273	1,027,418	1,047,966	1,068,926	1,090,304
2016	SCR	1,871,000	0	2,107,050	2,149,191	2,192,175	2,236,018	2,280,739
2016	WFGD		0	0	0	0	0	0
2016	PJFF	1,191,000	0	1,341,259	1,368,085	1,395,446	1,423,355	1,451,822
2016	SAM Mitigation	174,000	0	195,952	199,871	203,869	207,946	212,105
2016	PAC Injection	169,000	0	190,321	194,128	198,010	201,971	206,010
2016	SCR	1,993,000	0	2,244,442	2,289,331	2,335,117	2,381,819	2,429,456
2016	WFGD		0	0	0	0	0	0
2016	PJFF	1,251,000	0	1,408,829	1,437,006	1,465,746	1,495,061	1,524,962
2016	SAM Mitigation	177,000	0	199,331	203,317	207,384	211,531	215,762
2016	PAC Injection	172,000	0	193,700	197,574	201,525	205,556	209,667
2016	SCR	2,392,000	0	2,693,781	2,747,656	2,802,609	2,858,661	2,915,835
2016	WFGD		0	0	0	0	0	0
2016	PJFF	1,632,000	0	1,837,897	1,874,655	1,912,148	1,950,391	1,989,399

2% Year \$: 2010
 Fixed O&M

<u>Year</u>	<u>Equipment</u>	<u>\$/yr</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>
2014	PJFF/PAC		687,927	701,686	715,720	730,034	744,635	759,527
2014	SAM Mitigation		154,659	157,752	160,907	164,125	167,408	170,756
2014	PJFF/PAC		820,354	836,761	853,496	870,566	887,978	905,737
2014	SAM Mitigation		154,659	157,752	160,907	164,125	167,408	170,756
2015	PJFF/PAC		1,202,245	1,226,290	1,250,816	1,275,832	1,301,349	1,327,376
2014	PJFF/PAC		1,485,345	1,515,052	1,545,353	1,576,260	1,607,785	1,639,941
2014	SCR Turn-Down		0	0	0	0	0	0
2013	SAM Mitigation		0	0	0	0	0	0
2014	PJFF/PAC		1,786,436	1,822,165	1,858,608	1,895,781	1,933,696	1,972,370
2012	Sorbent Injection		115,643	117,956	120,315	122,721	125,175	127,679
2015	PJFF/PAC		1,469,498	1,498,888	1,528,865	1,559,443	1,590,632	1,622,444
2013	SCR Turn-Down		0	0	0	0	0	0
2013	SAM Mitigation		0	0	0	0	0	0
2015	PJFF/PAC		1,423,176	1,451,640	1,480,672	1,510,286	1,540,491	1,571,301
2014	SCR Turn-Down		0	0	0	0	0	0
2013	SAM Mitigation		0	0	0	0	0	0
2015	Combined 1&2 FGD		-118,749	-121,124	-123,546	-126,017	-128,537	-131,108
2015	PJFF/PAC		1,628,681	1,661,255	1,694,480	1,728,370	1,762,937	1,798,196
2015	SAM Mitigation		42,665	43,518	44,388	45,276	46,182	47,105
2015	Combined 1&2 FGD		306,400	312,528	318,778	325,154	331,657	338,290
2015	PJFF/PAC		1,597,875	1,629,832	1,662,429	1,695,678	1,729,591	1,764,183
2015	SAM Mitigation		42,665	43,518	44,388	45,276	46,182	47,105
2014	FGD		0	0	0	0	0	0
2015	PJFF/PAC		1,456,698	1,485,832	1,515,549	1,545,860	1,576,777	1,608,313
2013	SAM Mitigation		42,299	43,145	44,008	44,888	45,786	46,702
2013	SCR Turn-Down		0	0	0	0	0	0
2014	FGD		0	0	0	0	0	0
2014	PJFF/PAC		1,707,811	1,741,967	1,776,807	1,812,343	1,848,590	1,885,562
2014	SAM Mitigation		42,665	43,518	44,388	45,276	46,182	47,105
2014	SCR Turn-Down		0	0	0	0	0	0
2015	PJFF/PAC		1,112,110	1,134,353	1,157,040	1,180,180	1,203,784	1,227,860
2016	SCR	1,871,000	2,326,353	2,372,880	2,420,338	2,468,745	2,518,120	2,568,482
2016	WFGD		0	0	0	0	0	0
2016	PJFF	1,191,000	1,480,859	1,510,476	1,540,685	1,571,499	1,602,929	1,634,988
2016	SAM Mitigation	174,000	216,347	220,674	225,088	229,589	234,181	238,865
2016	PAC Injection	169,000	210,130	214,333	218,620	222,992	227,452	232,001
2016	SCR	1,993,000	2,478,045	2,527,606	2,578,158	2,629,721	2,682,316	2,735,962
2016	WFGD		0	0	0	0	0	0
2016	PJFF	1,251,000	1,555,461	1,586,570	1,618,302	1,650,668	1,683,681	1,717,355
2016	SAM Mitigation	177,000	220,077	224,479	228,968	233,548	238,219	242,983
2016	PAC Injection	172,000	213,860	218,138	222,500	226,950	231,489	236,119
2016	SCR	2,392,000	2,974,151	3,033,634	3,094,307	3,156,193	3,219,317	3,283,703
2016	WFGD		0	0	0	0	0	0
2016	PJFF	1,632,000	2,029,187	2,069,771	2,111,166	2,153,389	2,196,457	2,240,386

2% Year \$: 2010
 Fixed O&M

<u>Year</u>	<u>Equipment</u>	<u>\$/yr</u>	<u>2027</u>	<u>2028</u>	<u>2029</u>	<u>2030</u>	<u>2031</u>	<u>2032</u>
2014	PJFF/PAC		774,718	790,212	806,016	822,137	838,580	855,351
2014	SAM Mitigation		174,171	177,655	181,208	184,832	188,529	192,299
2014	PJFF/PAC		923,852	942,329	961,175	980,399	1,000,007	1,020,007
2014	SAM Mitigation		174,171	177,655	181,208	184,832	188,529	192,299
2015	PJFF/PAC		1,353,924	1,381,002	1,408,622	1,436,795	1,465,530	1,494,841
2014	PJFF/PAC		1,672,739	1,706,194	1,740,318	1,775,124	1,810,627	1,846,839
2014	SCR Turn-Down		0	0	0	0	0	0
2013	SAM Mitigation		0	0	0	0	0	0
2014	PJFF/PAC		2,011,817	2,052,054	2,093,095	2,134,957	2,177,656	2,221,209
2012	Sorbent Injection		130,232	132,837	135,494	138,204	140,968	143,787
2015	PJFF/PAC		1,654,893	1,687,991	1,721,751	1,756,186	1,791,310	1,827,136
2013	SCR Turn-Down		0	0	0	0	0	0
2013	SAM Mitigation		0	0	0	0	0	0
2015	PJFF/PAC		1,602,727	1,634,782	1,667,477	1,700,827	1,734,844	1,769,540
2014	SCR Turn-Down		0	0	0	0	0	0
2013	SAM Mitigation		0	0	0	0	0	0
2015	Combined 1&2 FGD		-133,730	-136,405	-139,133	-141,916	-144,754	-147,649
2015	PJFF/PAC		1,834,160	1,870,843	1,908,260	1,946,425	1,985,354	2,025,061
2015	SAM Mitigation		48,047	49,008	49,989	50,988	52,008	53,048
2015	Combined 1&2 FGD		345,056	351,957	358,996	366,176	373,499	380,969
2015	PJFF/PAC		1,799,467	1,835,456	1,872,165	1,909,608	1,947,801	1,986,757
2015	SAM Mitigation		48,047	49,008	49,989	50,988	52,008	53,048
2014	FGD		0	0	0	0	0	0
2015	PJFF/PAC		1,640,479	1,673,288	1,706,754	1,740,889	1,775,707	1,811,221
2013	SAM Mitigation		47,636	48,588	49,560	50,551	51,562	52,594
2013	SCR Turn-Down		0	0	0	0	0	0
2014	FGD		0	0	0	0	0	0
2014	PJFF/PAC		1,923,273	1,961,738	2,000,973	2,040,992	2,081,812	2,123,449
2014	SAM Mitigation		48,047	49,008	49,989	50,988	52,008	53,048
2014	SCR Turn-Down		0	0	0	0	0	0
2015	PJFF/PAC		1,252,417	1,277,465	1,303,015	1,329,075	1,355,656	1,382,769
2016	SCR	1,871,000	2,619,852	2,672,249	2,725,694	2,780,208	2,835,812	2,892,528
2016	WFGD		0	0	0	0	0	0
2016	PJFF	1,191,000	1,667,688	1,701,041	1,735,062	1,769,763	1,805,159	1,841,262
2016	SAM Mitigation	174,000	243,642	248,515	253,485	258,555	263,726	269,000
2016	PAC Injection	169,000	236,641	241,374	246,201	251,125	256,148	261,271
2016	SCR	1,993,000	2,790,681	2,846,495	2,903,425	2,961,493	3,020,723	3,081,137
2016	WFGD		0	0	0	0	0	0
2016	PJFF	1,251,000	1,751,702	1,786,736	1,822,471	1,858,920	1,896,099	1,934,021
2016	SAM Mitigation	177,000	247,843	252,800	257,856	263,013	268,273	273,638
2016	PAC Injection	172,000	240,842	245,658	250,572	255,583	260,695	265,909
2016	SCR	2,392,000	3,349,377	3,416,365	3,484,692	3,554,386	3,625,474	3,697,983
2016	WFGD		0	0	0	0	0	0
2016	PJFF	1,632,000	2,285,194	2,330,898	2,377,516	2,425,066	2,473,567	2,523,039

2%	Year \$:	2010	Fixed O&M					
Year	Equipment	\$/yr	2033	2034	2035	2036	2037	2038
2014	PJFF/PAC		872,458	889,907	907,705	925,860	944,377	963,264
2014	SAM Mitigation		196,145	200,068	204,069	208,151	212,314	216,560
2014	PJFF/PAC		1,040,407	1,061,215	1,082,440	1,104,088	1,126,170	1,148,694
2014	SAM Mitigation		196,145	200,068	204,069	208,151	212,314	216,560
2015	PJFF/PAC		1,524,738	1,555,233	1,586,337	1,618,064	1,650,425	1,683,434
2014	PJFF/PAC		1,883,776	1,921,452	1,959,881	1,999,078	2,039,060	2,079,841
2014	SCR Turn-Down		0	0	0	0	0	0
2013	SAM Mitigation		0	0	0	0	0	0
2014	PJFF/PAC		2,265,633	2,310,946	2,357,165	2,404,308	2,452,394	2,501,442
2012	Sorbent Injection		146,663	149,596	152,588	155,640	158,753	161,928
2015	PJFF/PAC		1,863,678	1,900,952	1,938,971	1,977,751	2,017,306	2,057,652
2013	SCR Turn-Down		0	0	0	0	0	0
2013	SAM Mitigation		0	0	0	0	0	0
2015	PJFF/PAC		1,804,931	1,841,030	1,877,850	1,915,407	1,953,716	1,992,790
2014	SCR Turn-Down		0	0	0	0	0	0
2013	SAM Mitigation		0	0	0	0	0	0
2015	Combined 1&2 FGD		-150,602	-153,614	-156,686	-159,820	-163,017	-166,277
2015	PJFF/PAC		2,065,562	2,106,873	2,149,010	2,191,991	2,235,831	2,280,547
2015	SAM Mitigation		54,109	55,191	56,295	57,421	58,570	59,741
2015	Combined 1&2 FGD		388,589	396,361	404,288	412,374	420,621	429,033
2015	PJFF/PAC		2,026,492	2,067,022	2,108,362	2,150,529	2,193,540	2,237,411
2015	SAM Mitigation		54,109	55,191	56,295	57,421	58,570	59,741
2014	FGD		0	0	0	0	0	0
2015	PJFF/PAC		1,847,446	1,884,395	1,922,083	1,960,524	1,999,735	2,039,729
2013	SAM Mitigation		53,645	54,718	55,813	56,929	58,068	59,229
2013	SCR Turn-Down		0	0	0	0	0	0
2014	FGD		0	0	0	0	0	0
2014	PJFF/PAC		2,165,918	2,209,236	2,253,421	2,298,489	2,344,459	2,391,348
2014	SAM Mitigation		54,109	55,191	56,295	57,421	58,570	59,741
2014	SCR Turn-Down		0	0	0	0	0	0
2015	PJFF/PAC		1,410,425	1,438,633	1,467,406	1,496,754	1,526,689	1,557,223
2016	SCR	1,871,000	2,950,379	3,009,386	3,069,574	3,130,965	3,193,585	3,257,456
2016	WFGD		0	0	0	0	0	0
2016	PJFF	1,191,000	1,878,087	1,915,649	1,953,962	1,993,041	2,032,902	2,073,560
2016	SAM Mitigation	174,000	274,380	279,868	285,465	291,175	296,998	302,938
2016	PAC Injection	169,000	266,496	271,826	277,262	282,808	288,464	294,233
2016	SCR	1,993,000	3,142,760	3,205,615	3,269,728	3,335,122	3,401,825	3,469,861
2016	WFGD		0	0	0	0	0	0
2016	PJFF	1,251,000	1,972,701	2,012,155	2,052,398	2,093,446	2,135,315	2,178,021
2016	SAM Mitigation	177,000	279,111	284,693	290,387	296,195	302,119	308,161
2016	PAC Injection	172,000	271,227	276,651	282,184	287,828	293,584	299,456
2016	SCR	2,392,000	3,771,943	3,847,382	3,924,330	4,002,816	4,082,872	4,164,530
2016	WFGD		0	0	0	0	0	0
2016	PJFF	1,632,000	2,573,500	2,624,970	2,677,469	2,731,018	2,785,639	2,841,352

2%	Year	Year \$:	2010	
				Fixed O&M
<u>Year</u>	<u>Equipment</u>	<u>\$/yr</u>	<u>2039</u>	<u>2040</u>
2014	PJFF/PAC		982,530	1,002,180
2014	SAM Mitigation		220,891	225,309
2014	PJFF/PAC		1,171,668	1,195,101
2014	SAM Mitigation		220,891	225,309
2015	PJFF/PAC		1,717,103	1,751,445
2014	PJFF/PAC		2,121,438	2,163,867
2014	SCR Turn-Down		0	0
2013	SAM Mitigation		0	0
2014	PJFF/PAC		2,551,471	2,602,500
2012	Sorbent Injection		165,166	168,470
2015	PJFF/PAC		2,098,805	2,140,781
2013	SCR Turn-Down		0	0
2013	SAM Mitigation		0	0
2015	PJFF/PAC		2,032,646	2,073,299
2014	SCR Turn-Down		0	0
2013	SAM Mitigation		0	0
2015	Combined 1&2 FGD		-169,602	-172,994
2015	PJFF/PAC		2,326,158	2,372,681
2015	SAM Mitigation		60,936	62,155
2015	Combined 1&2 FGD		437,614	446,366
2015	PJFF/PAC		2,282,159	2,327,802
2015	SAM Mitigation		60,936	62,155
2014	FGD		0	0
2015	PJFF/PAC		2,080,524	2,122,134
2013	SAM Mitigation		60,414	61,622
2013	SCR Turn-Down		0	0
2014	FGD		0	0
2014	PJFF/PAC		2,439,175	2,487,958
2014	SAM Mitigation		60,936	62,155
2014	SCR Turn-Down		0	0
2015	PJFF/PAC		1,588,367	1,620,135
2016	SCR	1,871,000	3,322,605	3,389,058
2016	WFGD		0	0
2016	PJFF	1,191,000	2,115,031	2,157,332
2016	SAM Mitigation	174,000	308,997	315,177
2016	PAC Injection	169,000	300,118	306,120
2016	SCR	1,993,000	3,539,258	3,610,044
2016	WFGD		0	0
2016	PJFF	1,251,000	2,221,582	2,266,013
2016	SAM Mitigation	177,000	314,325	320,611
2016	PAC Injection	172,000	305,445	311,554
2016	SCR	2,392,000	4,247,820	4,332,777
2016	WFGD		0	0
2016	PJFF	1,632,000	2,898,179	2,956,142

	A	B	C	D	E	F	G	H	I
1	\$000								
2	Station	Unit	Capacity	2011	2012	2013	2014	2015	2016
3	BR	BR1	101	69	164	256	346	434	520
4	BR	BR2	167	114	271	423	571	717	860
5	BR	BR3	416	285	675	1,053	1,423	1,786	2,143
6	CR	CR4	155	77	204	327	447	564	678
7	CR	CR5	168	84	221	355	485	611	735
8	CR	CR6	240	120	316	507	692	873	1,050
9	GH	GH1	475	510	1,206	1,884	2,548	3,200	3,843
10	GH	GH2	484	520	1,228	1,920	2,596	3,261	3,916
11	GH	GH3	480	516	1,218	1,904	2,575	3,234	3,883
12	GH	GH4	479	515	1,216	1,900	2,570	3,227	3,875
13	GR	GR3	68	39	96	151	205	258	309
14	GR	GR4	95	55	134	211	286	360	432
15	MC	MC1	303	309	767	1,213	1,649	2,077	2,497
16	MC	MC2	301	307	762	1,205	1,639	2,063	2,480
17	MC	MC3	391	398	989	1,565	2,128	2,680	3,222
18	MC	MC4	477	486	1,207	1,910	2,597	3,270	3,931
19	TC	TC1	383	115	270	420	567	712	855
20	TC	TC2	549	166	386	602	813	1,021	1,225
21	TY	TY3	71	94	233	368	499	628	754
22									
23									
24	2.50% Capital Escalation Rate								
25									
26		2011 CR		281	454	428	405	384	364
27		2012 CR			288	465	439	415	394
28		2013 CR				295	477	450	426
29		2014 CR					303	489	461
30		2015 CR						310	501
31		2016 CR							318
32		2017 CR							
33		2018 CR							
34		2019 CR							
35		2020 CR							
36		2021 CR							
37		2022 CR							
38		2023 CR							
39		2024 CR							
40		2025 CR							
41		2026 CR							
42		2027 CR							
43		2028 CR							
44		2029 CR							
45		2030 CR							
46		2031 CR							

	A	B	C	D	E	F	G	H	I
2	Station	Unit	Capacity	2011	2012	2013	2014	2015	2016
47		2032	CR						
48		2033	CR						
49		2034	CR						
50		2035	CR						
51		2036	CR						
52		2037	CR						
53		2038	CR						
54		2039	CR						
55		2040	CR						
56		2011	MC	1,499	2,188	2,076	1,972	1,877	1,788
57		2012	MC		1,536	2,243	2,128	2,021	1,923
58		2013	MC			1,575	2,299	2,181	2,072
59		2014	MC				1,614	2,357	2,235
60		2015	MC					1,655	2,416
61		2016	MC						1,696
62		2017	MC						
63		2018	MC						
64		2019	MC						
65		2020	MC						
66		2021	MC						
67		2022	MC						
68		2023	MC						
69		2024	MC						
70		2025	MC						
71		2026	MC						
72		2027	MC						
73		2028	MC						
74		2029	MC						
75		2030	MC						
76		2031	MC						
77		2032	MC						
78		2033	MC						
79		2034	MC						
80		2035	MC						
81		2036	MC						
82		2037	MC						
83		2038	MC						
84		2039	MC						
85		2040	MC						
86		2011	TC	281	368	350	333	318	304
87		2012	TC		288	377	358	341	326
88		2013	TC			295	387	367	350
89		2014	TC				303	396	376
90		2015	TC					310	406
91		2016	TC						318

	A	B	C	D	E	F	G	H	I
2	Station	Unit	Capacity	2011	2012	2013	2014	2015	2016
92		2017 TC							
93		2018 TC							
94		2019 TC							
95		2020 TC							
96		2021 TC							
97		2022 TC							
98		2023 TC							
99		2024 TC							
100		2025 TC							
101		2026 TC							
102		2027 TC							
103		2028 TC							
104		2029 TC							
105		2030 TC							
106		2031 TC							
107		2032 TC							
108		2033 TC							
109		2034 TC							
110		2035 TC							
111		2036 TC							
112		2037 TC							
113		2038 TC							
114		2039 TC							
115		2040 TC							
116		2011 GH		2,061	2,756	2,617	2,492	2,377	2,272
117		2012 GH			2,113	2,825	2,683	2,554	2,436
118		2013 GH				2,165	2,895	2,750	2,618
119		2014 GH					2,219	2,968	2,819
120		2015 GH						2,275	3,042
121		2016 GH							2,332
122		2017 GH							
123		2018 GH							
124		2019 GH							
125		2020 GH							
126		2021 GH							
127		2022 GH							
128		2023 GH							
129		2024 GH							
130		2025 GH							
131		2026 GH							
132		2027 GH							
133		2028 GH							
134		2029 GH							
135		2030 GH							
136		2031 GH							

	A	B	C	D	E	F	G	H	I
2	Station	Unit	Capacity	2011	2012	2013	2014	2015	2016
137		2032	GH						
138		2033	GH						
139		2034	GH						
140		2035	GH						
141		2036	GH						
142		2037	GH						
143		2038	GH						
144		2039	GH						
145		2040	GH						
146		2011	BR	468	629	595	565	538	513
147		2012	BR		480	645	610	579	551
148		2013	BR			492	661	625	594
149		2014	BR				504	677	641
150		2015	BR					517	694
151		2016	BR						530
152		2017	BR						
153		2018	BR						
154		2019	BR						
155		2020	BR						
156		2021	BR						
157		2022	BR						
158		2023	BR						
159		2024	BR						
160		2025	BR						
161		2026	BR						
162		2027	BR						
163		2028	BR						
164		2029	BR						
165		2030	BR						
166		2031	BR						
167		2032	BR						
168		2033	BR						
169		2034	BR						
170		2035	BR						
171		2036	BR						
172		2037	BR						
173		2038	BR						
174		2039	BR						
175		2040	BR						
176		2011	GR	94	134	127	120	114	108
177		2012	GR		96	137	130	123	117
178		2013	GR			98	141	133	126
179		2014	GR				101	144	136
180		2015	GR					103	148
181		2016	GR						106

	A	B	C	D	E	F	G	H	I
2	Station	Unit	Capacity	2011	2012	2013	2014	2015	2016
182			2017 GR						
183			2018 GR						
184			2019 GR						
185			2020 GR						
186			2021 GR						
187			2022 GR						
188			2023 GR						
189			2024 GR						
190			2025 GR						
191			2026 GR						
192			2027 GR						
193			2028 GR						
194			2029 GR						
195			2030 GR						
196			2031 GR						
197			2032 GR						
198			2033 GR						
199			2034 GR						
200			2035 GR						
201			2036 GR						
202			2037 GR						
203			2038 GR						
204			2039 GR						
205			2040 GR						
206			2011 TY	94	137	129	122	116	111
207			2012 TY		96	140	132	125	119
208			2013 TY			98	143	136	129
209			2014 TY				101	147	139
210			2015 TY					103	151
211			2016 TY						106
212			2017 TY						
213			2018 TY						
214			2019 TY						
215			2020 TY						
216			2021 TY						
217			2022 TY						
218			2023 TY						
219			2024 TY						
220			2025 TY						
221			2026 TY						
222			2027 TY						
223			2028 TY						
224			2029 TY						
225			2030 TY						
226			2031 TY						

	A	B	C	D	E	F	G	H	I
2	Station	Unit	Capacity	2011	2012	2013	2014	2015	2016
227		2032 TY							
228		2033 TY							
229		2034 TY							
230		2035 TY							
231		2036 TY							
232		2037 TY							
233		2038 TY							
234		2039 TY							
235		2040 TY							

	B	C	J	K	L	M	N	O	P
1									
2	Unit	Capacity	2017	2018	2019	2020	2021	2022	2023
3	BR1	101	605	689	771	852	931	1,008	1,085
4	BR2	167	1,001	1,139	1,275	1,408	1,539	1,667	1,794
5	BR3	416	2,493	2,838	3,176	3,508	3,834	4,153	4,469
6	CR4	155	790	899	1,006	1,109	1,210	1,308	1,405
7	CR5	168	856	975	1,090	1,202	1,312	1,418	1,522
8	CR6	240	1,223	1,392	1,557	1,718	1,874	2,026	2,175
9	GH1	475	4,477	5,101	5,717	6,322	6,918	7,504	8,080
10	GH2	484	4,562	5,198	5,825	6,442	7,049	7,646	8,233
11	GH3	480	4,524	5,155	5,777	6,389	6,991	7,583	8,165
12	GH4	479	4,514	5,144	5,765	6,376	6,977	7,567	8,148
13	GR3	68	360	410	458	506	553	598	643
14	GR4	95	503	572	640	707	772	836	899
15	MC1	303	2,910	3,315	3,714	4,104	4,487	4,862	5,229
16	MC2	301	2,891	3,294	3,689	4,077	4,458	4,830	5,194
17	MC3	391	3,755	4,278	4,792	5,296	5,790	6,274	6,747
18	MC4	477	4,581	5,219	5,846	6,461	7,064	7,654	8,231
19	TC1	383	996	1,135	1,272	1,407	1,539	1,670	1,799
20	TC2	549	1,427	1,626	1,823	2,016	2,207	2,394	2,579
21	TY3	71	878	999	1,118	1,234	1,347	1,458	1,568
22									
23									
24		2.50%							
25									
26	2011 CR		344	325	305	285	266	246	231
27	2012 CR		373	353	333	313	293	272	252
28	2013 CR		403	382	362	341	321	300	279
29	2014 CR		436	413	392	371	350	329	307
30	2015 CR		473	447	424	402	380	358	337
31	2016 CR		513	485	459	434	412	390	367
32	2017 CR		326	526	497	470	445	422	399
33	2018 CR			334	539	509	482	456	433
34	2019 CR				342	553	522	494	468
35	2020 CR					351	567	535	506
36	2021 CR						360	581	548
37	2022 CR							369	595
38	2023 CR								378
39	2024 CR								
40	2025 CR								
41	2026 CR								
42	2027 CR								
43	2028 CR								
44	2029 CR								
45	2030 CR								
46	2031 CR								

	B	C	J	K	L	M	N	O	P
2	Unit	Capacity	2017	2018	2019	2020	2021	2022	2023
47	2032 CR								
48	2033 CR								
49	2034 CR								
50	2035 CR								
51	2036 CR								
52	2037 CR								
53	2038 CR								
54	2039 CR								
55	2040 CR								
56	2011 MC		1,703	1,617	1,532	1,447	1,361	1,276	1,191
57	2012 MC		1,833	1,745	1,658	1,570	1,483	1,395	1,308
58	2013 MC		1,972	1,878	1,789	1,699	1,610	1,520	1,430
59	2014 MC		2,124	2,021	1,925	1,834	1,742	1,650	1,558
60	2015 MC		2,291	2,177	2,071	1,974	1,879	1,785	1,691
61	2016 MC		2,476	2,348	2,231	2,123	2,023	1,926	1,830
62	2017 MC		1,738	2,538	2,407	2,287	2,176	2,073	1,975
63	2018 MC			1,782	2,601	2,467	2,344	2,231	2,125
64	2019 MC				1,826	2,666	2,529	2,403	2,286
65	2020 MC					1,872	2,733	2,592	2,463
66	2021 MC						1,919	2,801	2,657
67	2022 MC							1,967	2,871
68	2023 MC								2,016
69	2024 MC								
70	2025 MC								
71	2026 MC								
72	2027 MC								
73	2028 MC								
74	2029 MC								
75	2030 MC								
76	2031 MC								
77	2032 MC								
78	2033 MC								
79	2034 MC								
80	2035 MC								
81	2036 MC								
82	2037 MC								
83	2038 MC								
84	2039 MC								
85	2040 MC								
86	2011 TC		291	278	264	251	238	225	211
87	2012 TC		312	298	284	271	257	244	230
88	2013 TC		334	319	305	292	278	264	250
89	2014 TC		359	342	327	313	299	285	270
90	2015 TC		386	368	351	336	321	306	292
91	2016 TC		416	396	377	360	344	329	314

	B	C	J	K	L	M	N	O	P
2	Unit	Capacity	2017	2018	2019	2020	2021	2022	2023
92	2017 TC		326	427	405	386	369	353	337
93	2018 TC			334	437	416	396	378	361
94	2019 TC				342	448	426	406	387
95	2020 TC					351	460	437	416
96	2021 TC						360	471	447
97	2022 TC							369	483
98	2023 TC								378
99	2024 TC								
100	2025 TC								
101	2026 TC								
102	2027 TC								
103	2028 TC								
104	2029 TC								
105	2030 TC								
106	2031 TC								
107	2032 TC								
108	2033 TC								
109	2034 TC								
110	2035 TC								
111	2036 TC								
112	2037 TC								
113	2038 TC								
114	2039 TC								
115	2040 TC								
116	2011 GH		2,171	2,070	1,970	1,869	1,768	1,667	1,567
117	2012 GH		2,328	2,225	2,122	2,019	1,916	1,812	1,709
118	2013 GH		2,497	2,387	2,281	2,175	2,069	1,963	1,858
119	2014 GH		2,683	2,560	2,446	2,338	2,229	2,121	2,013
120	2015 GH		2,889	2,750	2,623	2,507	2,396	2,285	2,174
121	2016 GH		3,118	2,961	2,819	2,689	2,570	2,456	2,342
122	2017 GH		2,390	3,196	3,035	2,889	2,756	2,634	2,518
123	2018 GH			2,450	3,276	3,111	2,962	2,825	2,700
124	2019 GH				2,511	3,358	3,189	3,036	2,896
125	2020 GH					2,574	3,442	3,269	3,112
126	2021 GH						2,638	3,528	3,350
127	2022 GH							2,704	3,616
128	2023 GH								2,772
129	2024 GH								
130	2025 GH								
131	2026 GH								
132	2027 GH								
133	2028 GH								
134	2029 GH								
135	2030 GH								
136	2031 GH								

	B	C	J	K	L	M	N	O	P
2	Unit	Capacity	2017	2018	2019	2020	2021	2022	2023
137	2032 GH								
138	2033 GH								
139	2034 GH								
140	2035 GH								
141	2036 GH								
142	2037 GH								
143	2038 GH								
144	2039 GH								
145	2040 GH								
146	2011 BR		489	464	440	415	391	367	350
147	2012 BR		526	501	476	451	426	401	376
148	2013 BR		565	539	513	488	462	436	411
149	2014 BR		609	579	552	526	500	474	447
150	2015 BR		657	624	594	566	539	512	485
151	2016 BR		712	674	639	608	580	553	525
152	2017 BR		543	729	690	655	624	595	567
153	2018 BR			557	748	708	672	639	610
154	2019 BR				571	766	725	688	655
155	2020 BR					585	785	743	706
156	2021 BR						600	805	762
157	2022 BR							615	825
158	2023 BR								630
159	2024 BR								
160	2025 BR								
161	2026 BR								
162	2027 BR								
163	2028 BR								
164	2029 BR								
165	2030 BR								
166	2031 BR								
167	2032 BR								
168	2033 BR								
169	2034 BR								
170	2035 BR								
171	2036 BR								
172	2037 BR								
173	2038 BR								
174	2039 BR								
175	2040 BR								
176	2011 GR		103	98	92	87	81	76	72
177	2012 GR		111	106	100	95	89	83	78
178	2013 GR		120	114	108	103	97	91	86
179	2014 GR		129	123	117	111	105	99	94
180	2015 GR		140	132	126	120	114	108	102
181	2016 GR		151	143	136	129	123	117	111

	B	C	J	K	L	M	N	O	P
2	Unit	Capacity	2017	2018	2019	2020	2021	2022	2023
182	2017 GR		109	155	147	139	132	126	120
183	2018 GR			111	159	150	143	135	129
184	2019 GR				114	163	154	146	139
185	2020 GR					117	167	158	150
186	2021 GR						120	171	162
187	2022 GR							123	176
188	2023 GR								126
189	2024 GR								
190	2025 GR								
191	2026 GR								
192	2027 GR								
193	2028 GR								
194	2029 GR								
195	2030 GR								
196	2031 GR								
197	2032 GR								
198	2033 GR								
199	2034 GR								
200	2035 GR								
201	2036 GR								
202	2037 GR								
203	2038 GR								
204	2039 GR								
205	2040 GR								
206	2011 TY		105	99	94	88	83	77	73
207	2012 TY		113	108	102	96	90	85	79
208	2013 TY		122	116	110	104	99	93	87
209	2014 TY		132	125	119	113	107	101	95
210	2015 TY		143	135	128	122	116	110	104
211	2016 TY		154	146	138	131	125	119	112
212	2017 TY		109	158	150	142	135	128	122
213	2018 TY			111	162	153	145	138	131
214	2019 TY				114	166	157	149	142
215	2020 TY					117	171	161	153
216	2021 TY						120	175	165
217	2022 TY							123	179
218	2023 TY								126
219	2024 TY								
220	2025 TY								
221	2026 TY								
222	2027 TY								
223	2028 TY								
224	2029 TY								
225	2030 TY								
226	2031 TY								

	B	C	J	K	L	M	N	O	P
2	Unit	Capacity	2017	2018	2019	2020	2021	2022	2023
227		2032 TY							
228		2033 TY							
229		2034 TY							
230		2035 TY							
231		2036 TY							
232		2037 TY							
233		2038 TY							
234		2039 TY							
235		2040 TY							

	B	C	Q	R	S	T	U	V	W
1									
2	Unit	Capacity	2024	2025	2026	2027	2028	2029	2030
3	BR1	101	1,163	1,241	1,320	1,399	1,479	1,560	1,642
4	BR2	167	1,922	2,052	2,182	2,313	2,446	2,579	2,714
5	BR3	416	4,789	5,111	5,435	5,762	6,092	6,425	6,761
6	CR4	155	1,501	1,596	1,691	1,786	1,880	1,974	2,023
7	CR5	168	1,626	1,730	1,833	1,936	2,038	2,139	2,193
8	CR6	240	2,324	2,471	2,619	2,765	2,911	3,056	3,132
9	GH1	475	8,653	9,231	9,814	10,402	10,995	11,594	12,199
10	GH2	484	8,817	9,405	9,999	10,599	11,204	11,814	12,430
11	GH3	480	8,744	9,328	9,917	10,511	11,111	11,716	12,327
12	GH4	479	8,726	9,308	9,896	10,489	11,088	11,692	12,302
13	GR3	68	689	734	780	825	871	918	964
14	GR4	95	962	1,026	1,089	1,153	1,217	1,282	1,347
15	MC1	303	5,592	5,956	6,320	6,686	7,053	7,421	7,790
16	MC2	301	5,555	5,916	6,279	6,642	7,007	7,372	7,739
17	MC3	391	7,216	7,685	8,156	8,628	9,102	9,576	10,052
18	MC4	477	8,803	9,376	9,950	10,526	11,103	11,683	12,263
19	TC1	383	1,927	2,057	2,188	2,320	2,453	2,588	2,725
20	TC2	549	2,762	2,948	3,136	3,325	3,517	3,710	3,906
21	TY3	71	1,677	1,787	1,898	2,008	2,119	2,230	2,341
22									
23									
24		2.50%							
25									
26	2011 CR		221	211	200	190	180	169	0
27	2012 CR		237	226	216	205	195	184	174
28	2013 CR		259	243	232	221	210	200	189
29	2014 CR		286	265	249	238	227	216	205
30	2015 CR		315	293	272	255	244	232	221
31	2016 CR		345	323	301	279	262	250	238
32	2017 CR		377	354	331	308	286	268	256
33	2018 CR		409	386	363	339	316	293	275
34	2019 CR		444	420	396	372	348	324	300
35	2020 CR		479	455	430	406	381	357	332
36	2021 CR		519	491	466	441	416	391	365
37	2022 CR		562	532	504	478	452	426	400
38	2023 CR		610	576	545	516	490	463	437
39	2024 CR		387	625	591	559	529	502	475
40	2025 CR			397	641	605	573	542	514
41	2026 CR				407	657	621	587	556
42	2027 CR					417	673	636	602
43	2028 CR						428	690	652
44	2029 CR							438	708
45	2030 CR								449
46	2031 CR								

	B	C	Q	R	S	T	U	V	W
2	Unit	Capacity	2024	2025	2026	2027	2028	2029	2030
47	2032 CR								
48	2033 CR								
49	2034 CR								
50	2035 CR								
51	2036 CR								
52	2037 CR								
53	2038 CR								
54	2039 CR								
55	2040 CR								
56	2011 MC		1,128	1,089	1,049	1,010	970	931	891
57	2012 MC		1,221	1,157	1,116	1,075	1,035	994	954
58	2013 MC		1,341	1,251	1,185	1,144	1,102	1,061	1,019
59	2014 MC		1,466	1,374	1,282	1,215	1,173	1,130	1,087
60	2015 MC		1,597	1,503	1,409	1,314	1,245	1,202	1,158
61	2016 MC		1,733	1,637	1,540	1,444	1,347	1,277	1,232
62	2017 MC		1,876	1,777	1,678	1,579	1,480	1,381	1,309
63	2018 MC		2,024	1,922	1,821	1,720	1,618	1,517	1,415
64	2019 MC		2,178	2,075	1,971	1,867	1,763	1,659	1,555
65	2020 MC		2,344	2,233	2,126	2,020	1,913	1,807	1,700
66	2021 MC		2,524	2,402	2,289	2,180	2,070	1,961	1,852
67	2022 MC		2,723	2,588	2,462	2,346	2,234	2,122	2,010
68	2023 MC		2,943	2,792	2,652	2,524	2,405	2,290	2,175
69	2024 MC		2,066	3,017	2,861	2,719	2,587	2,465	2,347
70	2025 MC			2,118	3,092	2,933	2,787	2,651	2,526
71	2026 MC				2,171	3,170	3,006	2,856	2,718
72	2027 MC					2,225	3,249	3,081	2,928
73	2028 MC						2,281	3,330	3,158
74	2029 MC							2,338	3,413
75	2030 MC								2,396
76	2031 MC								
77	2032 MC								
78	2033 MC								
79	2034 MC								
80	2035 MC								
81	2036 MC								
82	2037 MC								
83	2038 MC								
84	2039 MC								
85	2040 MC								
86	2011 TC		203	198	193	189	184	179	175
87	2012 TC		217	208	203	198	193	189	184
88	2013 TC		236	222	213	208	203	198	193
89	2014 TC		256	242	228	218	213	208	203
90	2015 TC		277	263	248	233	224	218	213
91	2016 TC		299	284	269	254	239	229	224

	B	C	Q	R	S	T	U	V	W
2	Unit	Capacity	2024	2025	2026	2027	2028	2029	2030
92	2017 TC		322	307	291	276	261	245	235
93	2018 TC		346	330	314	298	283	267	251
94	2019 TC		370	354	338	322	306	290	274
95	2020 TC		397	380	363	347	330	314	297
96	2021 TC		426	407	389	372	355	338	321
97	2022 TC		459	437	417	399	381	364	347
98	2023 TC		495	470	448	427	409	391	373
99	2024 TC		387	507	482	459	438	419	401
100	2025 TC			397	520	494	470	449	429
101	2026 TC				407	533	506	482	460
102	2027 TC					417	546	519	494
103	2028 TC						428	560	532
104	2029 TC							438	574
105	2030 TC								449
106	2031 TC								
107	2032 TC								
108	2033 TC								
109	2034 TC								
110	2035 TC								
111	2036 TC								
112	2037 TC								
113	2038 TC								
114	2039 TC								
115	2040 TC								
116	2011 GH		1,498	1,460	1,422	1,384	1,346	1,309	1,271
117	2012 GH		1,606	1,535	1,496	1,458	1,419	1,380	1,341
118	2013 GH		1,752	1,646	1,573	1,534	1,494	1,454	1,415
119	2014 GH		1,904	1,796	1,687	1,613	1,572	1,531	1,491
120	2015 GH		2,063	1,952	1,841	1,729	1,653	1,611	1,570
121	2016 GH		2,228	2,114	2,001	1,887	1,773	1,694	1,652
122	2017 GH		2,401	2,284	2,167	2,051	1,934	1,817	1,737
123	2018 GH		2,581	2,461	2,341	2,221	2,102	1,982	1,862
124	2019 GH		2,768	2,645	2,522	2,400	2,277	2,154	2,032
125	2020 GH		2,968	2,837	2,711	2,585	2,460	2,334	2,208
126	2021 GH		3,189	3,042	2,908	2,779	2,650	2,521	2,392
127	2022 GH		3,434	3,269	3,119	2,981	2,848	2,716	2,584
128	2023 GH		3,706	3,520	3,351	3,196	3,055	2,920	2,784
129	2024 GH		2,841	3,799	3,608	3,435	3,276	3,131	2,993
130	2025 GH			2,912	3,894	3,698	3,521	3,358	3,210
131	2026 GH				2,985	3,991	3,791	3,609	3,442
132	2027 GH					3,060	4,091	3,886	3,699
133	2028 GH						3,136	4,193	3,983
134	2029 GH							3,214	4,298
135	2030 GH								3,295
136	2031 GH								

	B	C	Q	R	S	T	U	V	W
2	Unit	Capacity	2024	2025	2026	2027	2028	2029	2030
137	2032 GH								
138	2033 GH								
139	2034 GH								
140	2035 GH								
141	2036 GH								
142	2037 GH								
143	2038 GH								
144	2039 GH								
145	2040 GH								
146	2011 BR		341	332	323	315	306	297	288
147	2012 BR		359	350	341	332	323	313	304
148	2013 BR		385	368	358	349	340	331	321
149	2014 BR		421	395	377	367	358	348	339
150	2015 BR		458	432	405	386	377	367	357
151	2016 BR		498	470	442	415	396	386	376
152	2017 BR		538	510	482	453	425	406	396
153	2018 BR		581	552	523	494	465	436	416
154	2019 BR		625	595	566	536	506	476	447
155	2020 BR		672	641	610	580	549	519	488
156	2021 BR		723	688	657	625	594	563	532
157	2022 BR		781	741	706	673	641	609	577
158	2023 BR		846	801	760	723	690	657	624
159	2024 BR		646	867	821	779	741	707	673
160	2025 BR			662	889	841	798	760	725
161	2026 BR				678	911	862	818	779
162	2027 BR					695	934	884	839
163	2028 BR						713	957	906
164	2029 BR							731	981
165	2030 BR								749
166	2031 BR								
167	2032 BR								
168	2033 BR								
169	2034 BR								
170	2035 BR								
171	2036 BR								
172	2037 BR								
173	2038 BR								
174	2039 BR								
175	2040 BR								
176	2011 GR		70	68	65	63	61	58	56
177	2012 GR		74	72	69	67	65	62	60
178	2013 GR		80	76	73	71	69	66	64
179	2014 GR		88	82	78	75	73	70	68
180	2015 GR		96	90	84	80	77	75	72
181	2016 GR		104	98	92	86	82	79	77

	B	C	Q	R	S	T	U	V	W
2	Unit	Capacity	2024	2025	2026	2027	2028	2029	2030
182	2017 GR		113	107	101	94	88	84	81
183	2018 GR		123	116	110	103	97	90	86
184	2019 GR		132	126	119	112	106	99	93
185	2020 GR		142	135	129	122	115	108	102
186	2021 GR		154	146	139	132	125	118	111
187	2022 GR		166	157	150	142	135	128	121
188	2023 GR		180	170	161	153	146	139	131
189	2024 GR		129	184	174	165	157	150	142
190	2025 GR			132	189	179	169	161	153
191	2026 GR				136	194	183	174	165
192	2027 GR					139	199	188	178
193	2028 GR						143	204	193
194	2029 GR							146	209
195	2030 GR								150
196	2031 GR								
197	2032 GR								
198	2033 GR								
199	2034 GR								
200	2035 GR								
201	2036 GR								
202	2037 GR								
203	2038 GR								
204	2039 GR								
205	2040 GR								
206	2011 TY		71	68	66	63	61	58	56
207	2012 TY		75	72	70	67	65	62	60
208	2013 TY		81	77	74	71	69	66	64
209	2014 TY		89	83	79	76	73	71	68
210	2015 TY		97	91	85	81	78	75	72
211	2016 TY		106	100	93	87	83	80	77
212	2017 TY		115	109	102	96	89	85	82
213	2018 TY		125	118	111	105	98	92	87
214	2019 TY		135	128	121	114	107	101	94
215	2020 TY		145	138	131	124	117	110	103
216	2021 TY		157	149	141	134	127	120	113
217	2022 TY		169	161	152	145	138	130	123
218	2023 TY		184	174	165	156	149	141	134
219	2024 TY		129	188	178	169	160	152	145
220	2025 TY			132	193	182	173	164	156
221	2026 TY				136	198	187	177	168
222	2027 TY					139	203	192	182
223	2028 TY						143	208	196
224	2029 TY							146	213
225	2030 TY								150
226	2031 TY								

	B	C	Q	R	S	T	U	V	W
2	Unit	Capacity	2024	2025	2026	2027	2028	2029	2030
227	2032 TY								
228	2033 TY								
229	2034 TY								
230	2035 TY								
231	2036 TY								
232	2037 TY								
233	2038 TY								
234	2039 TY								
235	2040 TY								

	B	C	X	Y	Z	AA	AB	AC	AD
1									
2	Unit	Capacity	2031	2032	2033	2034	2035	2036	2037
3	BR1	101	1,724	1,807	1,891	1,975	2,061	2,147	2,234
4	BR2	167	2,850	2,988	3,126	3,266	3,407	3,550	3,694
5	BR3	416	7,100	7,442	7,787	8,136	8,488	8,843	9,202
6	CR4	155	2,073	2,125	2,178	2,233	2,289	2,346	2,405
7	CR5	168	2,247	2,304	2,361	2,420	2,481	2,543	2,606
8	CR6	240	3,210	3,291	3,373	3,457	3,544	3,632	3,723
9	GH1	475	12,809	13,425	14,048	14,676	15,311	15,953	16,601
10	GH2	484	13,052	13,680	14,314	14,954	15,601	16,255	16,915
11	GH3	480	12,944	13,567	14,196	14,831	15,472	16,121	16,775
12	GH4	479	12,917	13,538	14,166	14,800	15,440	16,087	16,741
13	GR3	68	1,011	1,057	1,104	1,152	1,199	1,247	1,295
14	GR4	95	1,412	1,477	1,543	1,609	1,675	1,742	1,809
15	MC1	303	8,160	8,531	8,903	9,277	9,651	10,027	10,278
16	MC2	301	8,106	8,475	8,845	9,216	9,588	9,961	10,210
17	MC3	391	10,530	11,009	11,489	11,971	12,455	12,940	13,263
18	MC4	477	12,846	13,430	14,016	14,604	15,194	15,786	16,180
19	TC1	383	2,863	3,002	3,144	3,286	3,431	3,577	3,725
20	TC2	549	4,104	4,304	4,506	4,711	4,918	5,127	5,339
21	TY3	71	2,453	2,565	2,678	2,790	2,904	3,017	3,092
22									
23									
24		2.50%							
25									
26	2011 CR		0	0	0	0	0	0	0
27	2012 CR		0	0	0	0	0	0	0
28	2013 CR		178	0	0	0	0	0	0
29	2014 CR		194	182	0	0	0	0	0
30	2015 CR		210	198	187	0	0	0	0
31	2016 CR		227	215	203	192	0	0	0
32	2017 CR		244	232	220	208	196	0	0
33	2018 CR		263	250	238	226	214	201	0
34	2019 CR		282	269	257	244	232	219	206
35	2020 CR		307	289	276	263	250	237	224
36	2021 CR		340	315	296	283	270	256	243
37	2022 CR		375	349	323	303	290	276	263
38	2023 CR		410	384	358	331	311	297	283
39	2024 CR		448	421	394	366	339	319	305
40	2025 CR		487	459	431	403	376	348	327
41	2026 CR		527	499	470	442	413	385	357
42	2027 CR		570	540	511	482	453	424	395
43	2028 CR		617	584	554	524	494	464	434
44	2029 CR		668	632	599	568	537	506	476
45	2030 CR		725	685	648	614	582	551	519
46	2031 CR		461	743	702	664	629	596	564

	B	C	X	Y	Z	AA	AB	AC	AD
2	Unit	Capacity	2031	2032	2033	2034	2035	2036	2037
47	2032 CR			472	762	720	681	645	611
48	2033 CR				484	781	738	698	661
49	2034 CR					496	800	756	715
50	2035 CR						508	820	775
51	2036 CR							521	841
52	2037 CR								534
53	2038 CR								
54	2039 CR								
55	2040 CR								
56	2011 MC		851	812	772	733	693	654	0
57	2012 MC		913	873	832	792	751	711	670
58	2013 MC		978	936	895	853	811	770	728
59	2014 MC		1,045	1,002	960	917	874	832	789
60	2015 MC		1,115	1,071	1,027	984	940	896	853
61	2016 MC		1,187	1,142	1,098	1,053	1,008	963	919
62	2017 MC		1,263	1,217	1,171	1,125	1,079	1,033	987
63	2018 MC		1,341	1,294	1,247	1,200	1,153	1,106	1,059
64	2019 MC		1,451	1,375	1,327	1,278	1,230	1,182	1,134
65	2020 MC		1,594	1,487	1,409	1,360	1,310	1,261	1,212
66	2021 MC		1,743	1,634	1,524	1,444	1,394	1,343	1,292
67	2022 MC		1,898	1,786	1,674	1,562	1,480	1,429	1,377
68	2023 MC		2,060	1,946	1,831	1,716	1,601	1,518	1,464
69	2024 MC		2,230	2,112	1,994	1,877	1,759	1,642	1,555
70	2025 MC		2,406	2,285	2,165	2,044	1,924	1,803	1,683
71	2026 MC		2,589	2,466	2,342	2,219	2,095	1,972	1,848
72	2027 MC		2,786	2,654	2,528	2,401	2,274	2,148	2,021
73	2028 MC		3,001	2,855	2,721	2,591	2,461	2,331	2,201
74	2029 MC		3,237	3,076	2,927	2,789	2,656	2,522	2,389
75	2030 MC		3,499	3,318	3,153	3,000	2,858	2,722	2,586
76	2031 MC		2,456	3,586	3,401	3,232	3,075	2,930	2,790
77	2032 MC			2,518	3,676	3,486	3,312	3,152	3,003
78	2033 MC				2,580	3,768	3,573	3,395	3,231
79	2034 MC					2,645	3,862	3,663	3,480
80	2035 MC						2,711	3,958	3,754
81	2036 MC							2,779	4,057
82	2037 MC								2,848
83	2038 MC								
84	2039 MC								
85	2040 MC								
86	2011 TC		170	165	161	156	152	147	142
87	2012 TC		179	174	170	165	160	155	151
88	2013 TC		188	184	179	174	169	164	159
89	2014 TC		198	193	188	183	178	173	168
90	2015 TC		208	203	198	193	188	183	178
91	2016 TC		219	213	208	203	198	192	187

	B	C	X	Y	Z	AA	AB	AC	AD
2	Unit	Capacity	2031	2032	2033	2034	2035	2036	2037
92	2017 TC		230	224	219	213	208	203	197
93	2018 TC		241	235	230	224	219	213	208
94	2019 TC		258	247	241	235	230	224	219
95	2020 TC		281	264	253	247	241	236	230
96	2021 TC		305	288	271	259	253	247	241
97	2022 TC		329	312	295	277	266	260	254
98	2023 TC		355	338	320	302	284	272	266
99	2024 TC		383	364	346	328	310	292	279
100	2025 TC		411	392	373	355	336	317	299
101	2026 TC		440	421	402	383	364	345	325
102	2027 TC		472	451	432	412	392	373	353
103	2028 TC		507	484	463	442	422	402	382
104	2029 TC		545	519	496	474	453	433	412
105	2030 TC		588	559	532	508	486	465	444
106	2031 TC		461	603	573	546	521	498	476
107	2032 TC			472	618	587	559	534	511
108	2033 TC				484	633	602	573	547
109	2034 TC					496	649	617	588
110	2035 TC						508	665	632
111	2036 TC							521	682
112	2037 TC								534
113	2038 TC								
114	2039 TC								
115	2040 TC								
116	2011 GH		1,233	1,195	1,158	1,120	1,082	1,044	1,007
117	2012 GH		1,303	1,264	1,225	1,187	1,148	1,109	1,070
118	2013 GH		1,375	1,335	1,296	1,256	1,216	1,177	1,137
119	2014 GH		1,450	1,409	1,369	1,328	1,287	1,247	1,206
120	2015 GH		1,528	1,486	1,445	1,403	1,361	1,320	1,278
121	2016 GH		1,609	1,566	1,523	1,481	1,438	1,395	1,353
122	2017 GH		1,693	1,649	1,605	1,562	1,518	1,474	1,430
123	2018 GH		1,780	1,735	1,690	1,645	1,601	1,556	1,511
124	2019 GH		1,909	1,825	1,779	1,733	1,687	1,641	1,595
125	2020 GH		2,082	1,957	1,870	1,823	1,776	1,729	1,682
126	2021 GH		2,263	2,134	2,006	1,917	1,869	1,820	1,772
127	2022 GH		2,452	2,320	2,188	2,056	1,965	1,915	1,866
128	2023 GH		2,649	2,513	2,378	2,243	2,107	2,014	1,963
129	2024 GH		2,854	2,715	2,576	2,437	2,299	2,160	2,064
130	2025 GH		3,067	2,925	2,783	2,641	2,498	2,356	2,214
131	2026 GH		3,290	3,144	2,998	2,852	2,707	2,561	2,415
132	2027 GH		3,528	3,372	3,223	3,073	2,924	2,774	2,625
133	2028 GH		3,791	3,617	3,456	3,303	3,150	2,997	2,844
134	2029 GH		4,082	3,886	3,707	3,543	3,386	3,229	3,072
135	2030 GH		4,406	4,184	3,983	3,800	3,631	3,470	3,310
136	2031 GH		3,377	4,516	4,289	4,083	3,895	3,722	3,557

	B	C	X	Y	Z	AA	AB	AC	AD
2	Unit	Capacity	2031	2032	2033	2034	2035	2036	2037
137	2032 GH			3,462	4,629	4,396	4,185	3,992	3,815
138	2033 GH				3,548	4,744	4,506	4,289	4,092
139	2034 GH					3,637	4,863	4,619	4,397
140	2035 GH						3,728	4,984	4,734
141	2036 GH							3,821	5,109
142	2037 GH								3,917
143	2038 GH								
144	2039 GH								
145	2040 GH								
146	2011 BR		279	271	262	253	244	235	226
147	2012 BR		295	286	277	268	259	250	241
148	2013 BR		312	303	293	284	275	266	256
149	2014 BR		329	320	310	301	291	282	272
150	2015 BR		347	338	328	318	308	299	289
151	2016 BR		366	356	346	336	326	316	306
152	2017 BR		385	375	365	355	344	334	324
153	2018 BR		406	395	385	374	364	353	343
154	2019 BR		426	416	405	394	383	373	362
155	2020 BR		458	437	426	415	404	393	382
156	2021 BR		500	469	448	437	425	414	403
157	2022 BR		545	513	481	459	448	436	424
158	2023 BR		591	559	526	493	471	459	447
159	2024 BR		640	606	573	539	505	482	470
160	2025 BR		690	656	621	587	552	518	495
161	2026 BR		743	708	672	637	602	566	531
162	2027 BR		798	761	725	689	653	617	580
163	2028 BR		860	818	781	743	706	669	632
164	2029 BR		928	881	839	800	762	724	686
165	2030 BR		1,005	952	903	860	820	781	742
166	2031 BR		768	1,031	975	926	881	841	801
167	2032 BR			787	1,056	1,000	949	903	862
168	2033 BR				806	1,083	1,025	973	926
169	2034 BR					827	1,110	1,050	997
170	2035 BR						847	1,138	1,077
171	2036 BR							868	1,166
172	2037 BR								890
173	2038 BR								
174	2039 BR								
175	2040 BR								
176	2011 GR		54	52	49	47	45	42	40
177	2012 GR		58	55	53	51	48	46	44
178	2013 GR		61	59	57	54	52	49	47
179	2014 GR		65	63	61	58	56	53	51
180	2015 GR		70	67	65	62	60	57	54
181	2016 GR		74	71	69	66	64	61	58

	B	C	X	Y	Z	AA	AB	AC	AD
2	Unit	Capacity	2031	2032	2033	2034	2035	2036	2037
182	2017 GR		78	76	73	70	68	65	63
183	2018 GR		83	80	78	75	72	70	67
184	2019 GR		88	85	82	80	77	74	71
185	2020 GR		95	90	87	84	82	79	76
186	2021 GR		104	97	92	90	87	84	81
187	2022 GR		114	107	100	95	92	89	86
188	2023 GR		124	117	110	102	97	94	91
189	2024 GR		135	127	120	112	105	100	96
190	2025 GR		146	138	130	123	115	107	102
191	2026 GR		157	149	141	134	126	118	110
192	2027 GR		169	161	153	145	137	129	121
193	2028 GR		183	173	165	157	149	140	132
194	2029 GR		197	187	178	169	161	152	144
195	2030 GR		214	202	192	182	173	165	156
196	2031 GR		154	219	207	197	187	178	169
197	2032 GR			157	225	212	201	191	182
198	2033 GR				161	230	218	206	196
199	2034 GR					165	236	223	212
200	2035 GR						169	242	229
201	2036 GR							174	248
202	2037 GR								178
203	2038 GR								
204	2039 GR								
205	2040 GR								
206	2011 TY		53	51	48	46	43	41	0
207	2012 TY		57	55	52	49	47	44	42
208	2013 TY		61	59	56	53	51	48	46
209	2014 TY		65	63	60	57	55	52	49
210	2015 TY		70	67	64	61	59	56	53
211	2016 TY		74	71	69	66	63	60	57
212	2017 TY		79	76	73	70	67	65	62
213	2018 TY		84	81	78	75	72	69	66
214	2019 TY		89	86	83	80	77	74	71
215	2020 TY		96	91	88	85	82	79	76
216	2021 TY		106	99	93	90	87	84	81
217	2022 TY		116	108	101	96	93	89	86
218	2023 TY		126	119	111	104	98	95	92
219	2024 TY		137	129	122	114	106	101	97
220	2025 TY		148	140	133	125	117	109	103
221	2026 TY		160	152	144	136	128	120	112
222	2027 TY		172	164	156	148	139	131	123
223	2028 TY		186	177	168	160	151	143	134
224	2029 TY		201	191	181	172	164	155	146
225	2030 TY		218	206	196	186	177	168	159
226	2031 TY		154	224	212	201	190	181	172

	B	C	X	Y	Z	AA	AB	AC	AD
2	Unit	Capacity	2031	2032	2033	2034	2035	2036	2037
227	2032 TY			157	229	217	206	195	186
228	2033 TY				161	235	222	211	200
229	2034 TY					165	241	228	216
230	2035 TY						169	247	234
231	2036 TY							174	253
232	2037 TY								178
233	2038 TY								
234	2039 TY								
235	2040 TY								

	B	C	AE	AF	AG	AH	AI	AJ	AK
1									
2	Unit	Capacity	2038	2039	2040	2041	2042	2043	2044
3	BR1	101	2,322	2,411	2,501	2,446	2,340	2,239	2,145
4	BR2	167	3,839	3,986	4,135	4,045	3,868	3,703	3,546
5	BR3	416	9,564	9,930	10,300	10,076	9,636	9,223	8,833
6	CR4	155	2,465	2,526	2,589	2,492	2,292	2,102	1,921
7	CR5	168	2,671	2,738	2,807	2,701	2,484	2,278	2,082
8	CR6	240	3,816	3,912	4,009	3,858	3,549	3,255	2,974
9	GH1	475	17,256	17,918	18,587	18,193	17,419	16,688	15,994
10	GH2	484	17,583	18,257	18,939	18,537	17,749	17,004	16,297
11	GH3	480	17,437	18,106	18,782	18,384	17,602	16,863	16,163
12	GH4	479	17,401	18,069	18,743	18,346	17,565	16,828	16,129
13	GR3	68	1,343	1,377	1,411	1,364	1,281	1,203	1,128
14	GR4	95	1,876	1,923	1,971	1,906	1,790	1,680	1,575
15	MC1	303	10,535	10,798	11,068	10,698	10,020	9,375	8,758
16	MC2	301	10,465	10,727	10,995	10,627	9,954	9,313	8,700
17	MC3	391	13,595	13,934	14,283	13,805	12,931	12,097	11,301
18	MC4	477	16,585	16,999	17,424	16,841	15,775	14,758	13,787
19	TC1	383	3,875	4,026	4,180	4,093	3,927	3,771	3,623
20	TC2	549	5,554	5,771	5,991	5,866	5,629	5,405	5,193
21	TY3	71	3,170	3,249	3,330	3,217	3,011	2,815	2,629
22									
23									
24		2.50%							
25									
26	2011 CR		0	0	0	0	0	0	0
27	2012 CR		0	0	0	0	0	0	0
28	2013 CR		0	0	0	0	0	0	0
29	2014 CR		0	0	0	0	0	0	0
30	2015 CR		0	0	0	0	0	0	0
31	2016 CR		0	0	0	0	0	0	0
32	2017 CR		0	0	0	0	0	0	0
33	2018 CR		0	0	0	0	0	0	0
34	2019 CR		0	0	0	0	0	0	0
35	2020 CR		212	0	0	0	0	0	0
36	2021 CR		230	217	0	0	0	0	0
37	2022 CR		249	236	222	0	0	0	0
38	2023 CR		269	256	242	228	0	0	0
39	2024 CR		290	276	262	248	234	0	0
40	2025 CR		312	298	283	268	254	239	0
41	2026 CR		335	320	305	290	275	260	245
42	2027 CR		365	343	328	313	297	282	267
43	2028 CR		404	375	352	336	320	305	289
44	2029 CR		445	415	384	361	345	329	312
45	2030 CR		488	456	425	394	370	353	337
46	2031 CR		532	500	468	436	403	379	362

	B	C	AE	AF	AG	AH	AI	AJ	AK
2	Unit	Capacity	2038	2039	2040	2041	2042	2043	2044
47	2032 CR		578	545	512	479	446	414	388
48	2033 CR		627	593	559	525	491	458	424
49	2034 CR		677	642	608	573	538	504	469
50	2035 CR		733	694	658	623	587	552	516
51	2036 CR		794	751	712	675	638	602	566
52	2037 CR		862	814	770	730	692	654	617
53	2038 CR		547	884	835	789	748	709	671
54	2039 CR			561	906	855	809	766	727
55	2040 CR				575	928	877	829	786
56	2011 MC		0	0	0	0	0	0	0
57	2012 MC		0	0	0	0	0	0	0
58	2013 MC		687	0	0	0	0	0	0
59	2014 MC		747	704	0	0	0	0	0
60	2015 MC		809	765	722	0	0	0	0
61	2016 MC		874	829	784	740	0	0	0
62	2017 MC		942	896	850	804	758	0	0
63	2018 MC		1,012	965	918	871	824	777	0
64	2019 MC		1,086	1,037	989	941	893	845	797
65	2020 MC		1,162	1,113	1,063	1,014	965	915	866
66	2021 MC		1,242	1,191	1,141	1,090	1,039	989	938
67	2022 MC		1,325	1,273	1,221	1,169	1,117	1,065	1,013
68	2023 MC		1,411	1,358	1,305	1,252	1,198	1,145	1,092
69	2024 MC		1,501	1,446	1,392	1,337	1,283	1,228	1,174
70	2025 MC		1,594	1,538	1,483	1,427	1,371	1,315	1,259
71	2026 MC		1,725	1,634	1,577	1,520	1,462	1,405	1,348
72	2027 MC		1,894	1,768	1,675	1,616	1,558	1,499	1,440
73	2028 MC		2,072	1,942	1,812	1,717	1,657	1,597	1,536
74	2029 MC		2,256	2,123	1,990	1,857	1,760	1,698	1,636
75	2030 MC		2,449	2,313	2,176	2,040	1,904	1,804	1,741
76	2031 MC		2,650	2,510	2,371	2,231	2,091	1,951	1,849
77	2032 MC		2,860	2,716	2,573	2,430	2,287	2,143	2,000
78	2033 MC		3,078	2,931	2,784	2,637	2,491	2,344	2,197
79	2034 MC		3,311	3,155	3,004	2,854	2,703	2,553	2,402
80	2035 MC		3,567	3,394	3,234	3,080	2,925	2,771	2,617
81	2036 MC		3,848	3,656	3,479	3,315	3,157	2,998	2,840
82	2037 MC		4,159	3,944	3,748	3,566	3,398	3,236	3,073
83	2038 MC		2,920	4,263	4,043	3,841	3,655	3,483	3,316
84	2039 MC			2,993	4,369	4,144	3,937	3,746	3,570
85	2040 MC				3,067	4,478	4,248	4,036	3,840
86	2011 TC		138	133	128	124	119	114	110
87	2012 TC		146	141	136	132	127	122	117
88	2013 TC		154	149	145	140	135	130	125
89	2014 TC		163	158	153	148	143	138	133
90	2015 TC		172	167	162	157	152	147	142
91	2016 TC		182	177	171	166	161	156	150

	B	C	AE	AF	AG	AH	AI	AJ	AK
2	Unit	Capacity	2038	2039	2040	2041	2042	2043	2044
92	2017 TC		192	187	181	176	170	165	160
93	2018 TC		202	197	191	186	180	175	169
94	2019 TC		213	207	202	196	190	185	179
95	2020 TC		224	218	212	207	201	195	189
96	2021 TC		236	230	224	218	212	206	200
97	2022 TC		248	241	235	229	223	217	211
98	2023 TC		260	254	247	241	235	229	223
99	2024 TC		273	266	260	254	247	241	234
100	2025 TC		286	280	273	267	260	253	247
101	2026 TC		306	293	287	280	273	266	260
102	2027 TC		334	314	301	294	287	280	273
103	2028 TC		362	342	322	308	301	294	287
104	2029 TC		392	371	350	330	316	309	301
105	2030 TC		423	401	380	359	338	324	316
106	2031 TC		455	433	411	390	368	347	332
107	2032 TC		488	466	444	422	400	377	355
108	2033 TC		523	501	478	455	432	410	387
109	2034 TC		561	536	513	490	466	443	420
110	2035 TC		602	575	550	526	502	478	454
111	2036 TC		648	617	589	564	539	515	490
112	2037 TC		699	664	633	604	578	553	527
113	2038 TC		547	717	681	648	619	592	566
114	2039 TC			561	735	698	665	634	607
115	2040 TC				575	753	715	681	650
116	2011 GH		969	931	893	856	818	780	742
117	2012 GH		1,032	993	954	916	877	838	800
118	2013 GH		1,097	1,058	1,018	978	939	899	859
119	2014 GH		1,165	1,125	1,084	1,043	1,003	962	921
120	2015 GH		1,236	1,194	1,153	1,111	1,069	1,028	986
121	2016 GH		1,310	1,267	1,224	1,182	1,139	1,096	1,053
122	2017 GH		1,386	1,343	1,299	1,255	1,211	1,167	1,124
123	2018 GH		1,466	1,421	1,376	1,331	1,286	1,241	1,197
124	2019 GH		1,549	1,503	1,457	1,410	1,364	1,318	1,272
125	2020 GH		1,634	1,587	1,540	1,493	1,446	1,399	1,351
126	2021 GH		1,724	1,675	1,627	1,579	1,530	1,482	1,434
127	2022 GH		1,816	1,767	1,717	1,668	1,618	1,569	1,519
128	2023 GH		1,912	1,862	1,811	1,760	1,709	1,659	1,608
129	2024 GH		2,012	1,960	1,908	1,856	1,804	1,752	1,700
130	2025 GH		2,116	2,063	2,009	1,956	1,903	1,849	1,796
131	2026 GH		2,269	2,169	2,114	2,060	2,005	1,950	1,895
132	2027 GH		2,475	2,326	2,223	2,167	2,111	2,055	1,999
133	2028 GH		2,690	2,537	2,384	2,279	2,221	2,164	2,106
134	2029 GH		2,915	2,758	2,601	2,444	2,336	2,277	2,218
135	2030 GH		3,149	2,988	2,827	2,666	2,505	2,394	2,334
136	2031 GH		3,392	3,227	3,062	2,897	2,732	2,567	2,454

	B	C	AE	AF	AG	AH	AI	AJ	AK
2	Unit	Capacity	2038	2039	2040	2041	2042	2043	2044
137	2032 GH		3,646	3,477	3,308	3,139	2,970	2,801	2,632
138	2033 GH		3,911	3,737	3,564	3,391	3,217	3,044	2,871
139	2034 GH		4,194	4,008	3,831	3,653	3,475	3,298	3,120
140	2035 GH		4,507	4,299	4,109	3,927	3,744	3,562	3,380
141	2036 GH		4,852	4,619	4,406	4,211	4,025	3,838	3,651
142	2037 GH		5,237	4,974	4,735	4,517	4,317	4,125	3,934
143	2038 GH		4,014	5,368	5,098	4,853	4,629	4,425	4,228
144	2039 GH			4,115	5,502	5,226	4,974	4,745	4,535
145	2040 GH				4,218	5,639	5,356	5,099	4,864
146	2011 BR		218	209	200	191	182	173	165
147	2012 BR		232	223	214	205	196	187	178
148	2013 BR		247	238	229	219	210	201	191
149	2014 BR		263	253	244	234	225	215	206
150	2015 BR		279	269	260	250	240	230	221
151	2016 BR		296	286	276	266	256	246	236
152	2017 BR		314	303	293	283	273	263	252
153	2018 BR		332	322	311	301	290	280	269
154	2019 BR		351	340	330	319	308	297	287
155	2020 BR		371	360	349	338	327	316	305
156	2021 BR		391	380	369	358	346	335	324
157	2022 BR		413	401	390	378	367	355	343
158	2023 BR		435	423	411	399	388	376	364
159	2024 BR		458	446	434	422	409	397	385
160	2025 BR		482	470	457	445	432	420	407
161	2026 BR		507	494	481	469	456	443	430
162	2027 BR		544	520	506	493	480	467	454
163	2028 BR		595	558	533	519	506	492	479
164	2029 BR		648	610	572	546	532	518	505
165	2030 BR		703	664	625	586	559	545	531
166	2031 BR		761	721	681	641	601	573	559
167	2032 BR		821	780	739	698	657	616	588
168	2033 BR		883	841	799	757	715	673	631
169	2034 BR		949	905	862	819	776	733	690
170	2035 BR		1,022	973	928	884	840	795	751
171	2036 BR		1,104	1,048	997	951	906	861	815
172	2037 BR		1,195	1,131	1,074	1,022	975	928	882
173	2038 BR		912	1,225	1,160	1,101	1,047	999	952
174	2039 BR			935	1,256	1,189	1,128	1,074	1,024
175	2040 BR				959	1,287	1,218	1,156	1,100
176	2011 GR		38	0	0	0	0	0	0
177	2012 GR		41	39	0	0	0	0	0
178	2013 GR		45	42	40	0	0	0	0
179	2014 GR		48	46	43	41	0	0	0
180	2015 GR		52	49	47	44	42	0	0
181	2016 GR		56	53	51	48	45	43	0

	B	C	AE	AF	AG	AH	AI	AJ	AK
2	Unit	Capacity	2038	2039	2040	2041	2042	2043	2044
182	2017 GR		60	57	55	52	49	47	44
183	2018 GR		64	61	59	56	53	50	48
184	2019 GR		68	66	63	60	57	55	52
185	2020 GR		73	70	67	64	62	59	56
186	2021 GR		78	75	72	69	66	63	60
187	2022 GR		83	80	77	74	71	68	65
188	2023 GR		88	85	82	79	76	72	69
189	2024 GR		93	90	87	84	81	77	74
190	2025 GR		99	96	92	89	86	83	79
191	2026 GR		105	101	98	95	91	88	85
192	2027 GR		113	107	104	100	97	94	90
193	2028 GR		124	116	110	106	103	99	96
194	2029 GR		135	127	119	113	109	105	102
195	2030 GR		148	139	130	122	115	112	108
196	2031 GR		160	151	142	133	125	118	115
197	2032 GR		173	164	155	146	137	128	121
198	2033 GR		187	177	168	159	150	140	131
199	2034 GR		201	191	182	172	163	153	144
200	2035 GR		217	206	196	186	177	167	157
201	2036 GR		235	222	211	201	191	181	171
202	2037 GR		254	240	228	217	206	196	186
203	2038 GR		182	261	246	234	222	211	201
204	2039 GR			187	267	253	239	228	217
205	2040 GR				192	274	259	245	233
206	2011 TY		0	0	0	0	0	0	0
207	2012 TY		0	0	0	0	0	0	0
208	2013 TY		43	0	0	0	0	0	0
209	2014 TY		47	44	0	0	0	0	0
210	2015 TY		51	48	45	0	0	0	0
211	2016 TY		55	52	49	46	0	0	0
212	2017 TY		59	56	53	50	47	0	0
213	2018 TY		63	60	57	54	52	49	0
214	2019 TY		68	65	62	59	56	53	50
215	2020 TY		73	70	66	63	60	57	54
216	2021 TY		78	74	71	68	65	62	59
217	2022 TY		83	80	76	73	70	67	63
218	2023 TY		88	85	82	78	75	72	68
219	2024 TY		94	90	87	84	80	77	73
220	2025 TY		100	96	93	89	86	82	79
221	2026 TY		106	102	99	95	91	88	84
222	2027 TY		114	108	105	101	97	94	90
223	2028 TY		126	117	111	107	104	100	96
224	2029 TY		138	129	120	114	110	106	102
225	2030 TY		150	141	132	123	117	113	109
226	2031 TY		163	154	145	135	126	120	116

	B	C	AE	AF	AG	AH	AI	AJ	AK
2	Unit	Capacity	2038	2039	2040	2041	2042	2043	2044
227	2032 TY		176	167	158	148	139	129	123
228	2033 TY		190	181	171	161	152	142	133
229	2034 TY		205	195	185	175	165	156	146
230	2035 TY		221	210	200	190	180	170	160
231	2036 TY		239	227	215	205	195	184	174
232	2037 TY		259	245	233	221	210	199	189
233	2038 TY		182	266	252	238	226	215	204
234	2039 TY			187	273	258	244	232	221
235	2040 TY				192	279	264	250	238

	B	C	AL	AM	AN	AO	AP	AQ	AR
1									
2	Unit	Capacity	2045	2046	2047	2048	2049	2050	2051
3	BR1	101	2,055	1,969	1,867	1,770	1,678	1,591	1,510
4	BR2	167	3,397	3,255	3,087	2,926	2,774	2,631	2,496
5	BR3	416	8,463	8,109	7,689	7,289	6,910	6,553	6,218
6	CR4	155	1,747	1,580	1,421	1,269	1,125	988	859
7	CR5	168	1,893	1,713	1,540	1,375	1,219	1,071	931
8	CR6	240	2,705	2,447	2,200	1,965	1,741	1,529	1,330
9	GH1	475	15,334	14,702	14,098	13,375	12,686	12,033	11,415
10	GH2	484	15,624	14,981	14,365	13,628	12,927	12,261	11,631
11	GH3	480	15,495	14,857	14,246	13,516	12,820	12,159	11,535
12	GH4	479	15,463	14,826	14,217	13,488	12,793	12,134	11,511
13	GR3	68	1,056	988	922	860	801	745	692
14	GR4	95	1,476	1,380	1,288	1,201	1,118	1,040	967
15	MC1	303	8,166	7,598	7,053	6,531	6,033	5,559	5,110
16	MC2	301	8,112	7,548	7,007	6,488	5,993	5,523	5,077
17	MC3	391	10,538	9,805	9,102	8,428	7,785	7,174	6,595
18	MC4	477	12,856	11,962	11,104	10,282	9,498	8,752	8,045
19	TC1	383	3,483	3,349	3,222	3,101	2,986	2,878	2,777
20	TC2	549	4,992	4,801	4,618	4,445	4,280	4,125	3,980
21	TY3	71	2,451	2,281	2,117	1,962	1,814	1,675	1,543
22									
23									
24		2.50%							
25									
26	2011 CR		0	0	0	0	0	0	0
27	2012 CR		0	0	0	0	0	0	0
28	2013 CR		0	0	0	0	0	0	0
29	2014 CR		0	0	0	0	0	0	0
30	2015 CR		0	0	0	0	0	0	0
31	2016 CR		0	0	0	0	0	0	0
32	2017 CR		0	0	0	0	0	0	0
33	2018 CR		0	0	0	0	0	0	0
34	2019 CR		0	0	0	0	0	0	0
35	2020 CR		0	0	0	0	0	0	0
36	2021 CR		0	0	0	0	0	0	0
37	2022 CR		0	0	0	0	0	0	0
38	2023 CR		0	0	0	0	0	0	0
39	2024 CR		0	0	0	0	0	0	0
40	2025 CR		0	0	0	0	0	0	0
41	2026 CR		0	0	0	0	0	0	0
42	2027 CR		252	0	0	0	0	0	0
43	2028 CR		273	258	0	0	0	0	0
44	2029 CR		296	280	264	0	0	0	0
45	2030 CR		320	304	287	271	0	0	0
46	2031 CR		345	328	311	294	278	0	0

	B	C	AL	AM	AN	AO	AP	AQ	AR
2	Unit	Capacity	2045	2046	2047	2048	2049	2050	2051
47	2032	CR	371	354	336	319	302	285	0
48	2033	CR	398	380	363	345	327	309	292
49	2034	CR	434	408	390	372	353	335	317
50	2035	CR	481	445	418	400	381	362	344
51	2036	CR	529	493	456	429	410	390	371
52	2037	CR	580	542	505	468	439	420	400
53	2038	CR	633	594	556	518	480	450	430
54	2039	CR	688	648	609	570	531	492	462
55	2040	CR	745	705	665	624	584	544	504
56	2011	MC	0	0	0	0	0	0	0
57	2012	MC	0	0	0	0	0	0	0
58	2013	MC	0	0	0	0	0	0	0
59	2014	MC	0	0	0	0	0	0	0
60	2015	MC	0	0	0	0	0	0	0
61	2016	MC	0	0	0	0	0	0	0
62	2017	MC	0	0	0	0	0	0	0
63	2018	MC	0	0	0	0	0	0	0
64	2019	MC	0	0	0	0	0	0	0
65	2020	MC	816	0	0	0	0	0	0
66	2021	MC	887	837	0	0	0	0	0
67	2022	MC	962	910	858	0	0	0	0
68	2023	MC	1,039	986	932	879	0	0	0
69	2024	MC	1,119	1,065	1,010	956	901	0	0
70	2025	MC	1,203	1,147	1,091	1,035	980	924	0
71	2026	MC	1,290	1,233	1,176	1,119	1,061	1,004	947
72	2027	MC	1,381	1,323	1,264	1,205	1,147	1,088	1,029
73	2028	MC	1,476	1,416	1,356	1,296	1,235	1,175	1,115
74	2029	MC	1,575	1,513	1,451	1,390	1,328	1,266	1,205
75	2030	MC	1,677	1,614	1,551	1,488	1,424	1,361	1,298
76	2031	MC	1,784	1,719	1,655	1,590	1,525	1,460	1,395
77	2032	MC	1,895	1,829	1,762	1,696	1,629	1,563	1,497
78	2033	MC	2,050	1,943	1,874	1,806	1,738	1,670	1,602
79	2034	MC	2,252	2,101	1,991	1,921	1,852	1,782	1,712
80	2035	MC	2,462	2,308	2,154	2,041	1,969	1,898	1,826
81	2036	MC	2,682	2,524	2,366	2,208	2,092	2,019	1,945
82	2037	MC	2,911	2,749	2,587	2,425	2,263	2,144	2,069
83	2038	MC	3,150	2,984	2,818	2,652	2,486	2,319	2,198
84	2039	MC	3,399	3,229	3,059	2,888	2,718	2,548	2,377
85	2040	MC	3,659	3,484	3,310	3,135	2,961	2,786	2,611
86	2011	TC	105	101	96	91	87	82	77
87	2012	TC	113	108	103	98	94	89	84
88	2013	TC	120	115	111	106	101	96	91
89	2014	TC	128	123	118	113	108	103	98
90	2015	TC	137	131	126	121	116	111	106
91	2016	TC	145	140	135	130	124	119	114

	B	C	AL	AM	AN	AO	AP	AQ	AR
2	Unit	Capacity	2045	2046	2047	2048	2049	2050	2051
92	2017 TC		154	149	144	138	133	127	122
93	2018 TC		164	158	153	147	142	136	131
94	2019 TC		173	168	162	156	151	145	139
95	2020 TC		183	178	172	166	160	155	149
96	2021 TC		194	188	182	176	170	164	158
97	2022 TC		205	199	193	187	181	175	168
98	2023 TC		216	210	204	198	191	185	179
99	2024 TC		228	222	215	209	203	196	190
100	2025 TC		240	234	227	221	214	208	201
101	2026 TC		253	246	240	233	226	219	213
102	2027 TC		266	259	253	246	239	232	225
103	2028 TC		280	273	266	259	252	245	238
104	2029 TC		294	287	280	273	265	258	251
105	2030 TC		309	302	294	287	279	272	265
106	2031 TC		324	317	309	302	294	286	279
107	2032 TC		340	332	325	317	309	301	293
108	2033 TC		364	349	341	333	325	317	309
109	2034 TC		396	373	357	349	341	333	325
110	2035 TC		430	406	382	366	358	350	341
111	2036 TC		466	441	417	392	376	367	358
112	2037 TC		502	477	452	427	402	385	376
113	2038 TC		541	515	489	463	438	412	395
114	2039 TC		580	554	528	501	475	449	422
115	2040 TC		622	595	568	541	514	487	460
116	2011 GH		704	667	629	0	0	0	0
117	2012 GH		761	722	683	645	0	0	0
118	2013 GH		819	780	740	700	661	0	0
119	2014 GH		881	840	799	759	718	677	0
120	2015 GH		944	903	861	819	778	736	694
121	2016 GH		1,011	968	925	882	840	797	754
122	2017 GH		1,080	1,036	992	948	905	861	817
123	2018 GH		1,152	1,107	1,062	1,017	972	927	882
124	2019 GH		1,226	1,180	1,134	1,088	1,042	996	950
125	2020 GH		1,304	1,257	1,210	1,163	1,116	1,068	1,021
126	2021 GH		1,385	1,337	1,289	1,240	1,192	1,143	1,095
127	2022 GH		1,469	1,420	1,370	1,321	1,271	1,222	1,172
128	2023 GH		1,557	1,506	1,455	1,405	1,354	1,303	1,252
129	2024 GH		1,648	1,596	1,544	1,492	1,440	1,388	1,336
130	2025 GH		1,742	1,689	1,636	1,582	1,529	1,476	1,422
131	2026 GH		1,841	1,786	1,731	1,677	1,622	1,567	1,513
132	2027 GH		1,943	1,887	1,831	1,775	1,719	1,662	1,606
133	2028 GH		2,049	1,991	1,934	1,876	1,819	1,762	1,704
134	2029 GH		2,159	2,100	2,041	1,982	1,923	1,864	1,806
135	2030 GH		2,273	2,213	2,153	2,092	2,032	1,971	1,911
136	2031 GH		2,392	2,330	2,268	2,206	2,144	2,083	2,021

	B	C	AL	AM	AN	AO	AP	AQ	AR
2	Unit	Capacity	2045	2046	2047	2048	2049	2050	2051
137	2032 GH		2,515	2,452	2,388	2,325	2,262	2,198	2,135
138	2033 GH		2,697	2,578	2,513	2,448	2,383	2,318	2,253
139	2034 GH		2,942	2,765	2,643	2,576	2,509	2,443	2,376
140	2035 GH		3,198	3,016	2,834	2,709	2,640	2,572	2,504
141	2036 GH		3,465	3,278	3,091	2,905	2,776	2,706	2,636
142	2037 GH		3,743	3,551	3,360	3,169	2,977	2,846	2,774
143	2038 GH		4,032	3,836	3,640	3,444	3,248	3,052	2,917
144	2039 GH		4,334	4,133	3,932	3,731	3,530	3,329	3,128
145	2040 GH		4,649	4,443	4,236	4,030	3,824	3,618	3,412
146	2011 BR		156	147	0	0	0	0	0
147	2012 BR		169	160	151	0	0	0	0
148	2013 BR		182	173	164	154	0	0	0
149	2014 BR		196	187	177	168	158	0	0
150	2015 BR		211	201	191	182	172	162	0
151	2016 BR		226	216	206	196	186	176	166
152	2017 BR		242	232	222	211	201	191	181
153	2018 BR		259	248	238	227	217	206	196
154	2019 BR		276	265	254	244	233	222	211
155	2020 BR		294	283	272	261	250	239	228
156	2021 BR		312	301	290	278	267	256	245
157	2022 BR		332	320	309	297	285	274	262
158	2023 BR		352	340	328	316	304	293	281
159	2024 BR		373	361	349	336	324	312	300
160	2025 BR		395	382	370	357	345	332	320
161	2026 BR		417	405	392	379	366	353	341
162	2027 BR		441	428	415	402	388	375	362
163	2028 BR		465	452	438	425	412	398	385
164	2029 BR		491	477	463	449	436	422	408
165	2030 BR		517	503	489	475	461	447	432
166	2031 BR		545	530	516	501	487	472	458
167	2032 BR		573	558	543	529	514	499	484
168	2033 BR		603	587	572	557	542	527	511
169	2034 BR		647	618	602	586	571	555	540
170	2035 BR		707	663	633	617	601	585	569
171	2036 BR		770	725	680	649	632	616	600
172	2037 BR		836	789	743	697	665	648	632
173	2038 BR		904	857	809	762	714	682	664
174	2039 BR		975	927	878	829	781	732	699
175	2040 BR		1,050	1,000	950	900	850	800	750
176	2011 GR		0	0	0	0	0	0	0
177	2012 GR		0	0	0	0	0	0	0
178	2013 GR		0	0	0	0	0	0	0
179	2014 GR		0	0	0	0	0	0	0
180	2015 GR		0	0	0	0	0	0	0
181	2016 GR		0	0	0	0	0	0	0

	B	C	AL	AM	AN	AO	AP	AQ	AR
2	Unit	Capacity	2045	2046	2047	2048	2049	2050	2051
182	2017 GR		0	0	0	0	0	0	0
183	2018 GR		45	0	0	0	0	0	0
184	2019 GR		49	46	0	0	0	0	0
185	2020 GR		53	50	47	0	0	0	0
186	2021 GR		57	54	51	48	0	0	0
187	2022 GR		62	59	56	53	50	0	0
188	2023 GR		66	63	60	57	54	51	0
189	2024 GR		71	68	65	62	59	55	52
190	2025 GR		76	73	70	66	63	60	57
191	2026 GR		81	78	75	71	68	65	61
192	2027 GR		87	83	80	77	73	70	66
193	2028 GR		92	89	86	82	79	75	72
194	2029 GR		98	95	91	88	84	81	77
195	2030 GR		104	101	97	93	90	86	83
196	2031 GR		111	107	103	100	96	92	88
197	2032 GR		117	114	110	106	102	98	94
198	2033 GR		124	120	116	113	109	105	101
199	2034 GR		134	127	123	119	115	111	107
200	2035 GR		147	138	131	126	122	118	114
201	2036 GR		161	151	141	134	130	125	121
202	2037 GR		175	165	155	145	137	133	129
203	2038 GR		190	180	169	159	148	141	136
204	2039 GR		206	195	184	173	163	152	144
205	2040 GR		222	211	200	189	178	167	156
206	2011 TY		0	0	0	0	0	0	0
207	2012 TY		0	0	0	0	0	0	0
208	2013 TY		0	0	0	0	0	0	0
209	2014 TY		0	0	0	0	0	0	0
210	2015 TY		0	0	0	0	0	0	0
211	2016 TY		0	0	0	0	0	0	0
212	2017 TY		0	0	0	0	0	0	0
213	2018 TY		0	0	0	0	0	0	0
214	2019 TY		0	0	0	0	0	0	0
215	2020 TY		51	0	0	0	0	0	0
216	2021 TY		55	52	0	0	0	0	0
217	2022 TY		60	57	54	0	0	0	0
218	2023 TY		65	62	58	55	0	0	0
219	2024 TY		70	67	63	60	56	0	0
220	2025 TY		75	72	68	65	61	58	0
221	2026 TY		81	77	73	70	66	63	59
222	2027 TY		86	83	79	75	72	68	64
223	2028 TY		92	89	85	81	77	73	70
224	2029 TY		98	95	91	87	83	79	75
225	2030 TY		105	101	97	93	89	85	81
226	2031 TY		112	107	103	99	95	91	87

	B	C	AL	AM	AN	AO	AP	AQ	AR
2	Unit	Capacity	2045	2046	2047	2048	2049	2050	2051
227	2032 TY		118	114	110	106	102	98	94
228	2033 TY		126	121	117	113	109	104	100
229	2034 TY		136	129	124	120	116	111	107
230	2035 TY		149	139	132	128	123	119	114
231	2036 TY		164	153	143	135	131	126	122
232	2037 TY		178	168	157	146	139	134	129
233	2038 TY		194	183	172	161	150	142	137
234	2039 TY		210	198	187	176	165	154	146
235	2040 TY		226	215	203	192	180	169	158

	B	C	AS	AT	AU	AV	AW	AX	AY
1									
2	Unit	Capacity	2052	2053	2054	2055	2056	2057	2058
3	BR1	101	1,434	1,361	1,290	1,219	1,149	1,080	1,013
4	BR2	167	2,371	2,251	2,132	2,015	1,900	1,787	1,675
5	BR3	416	5,906	5,607	5,312	5,021	4,733	4,450	4,171
6	CR4	155	738	623	511	402	297	194	95
7	CR5	168	800	675	554	436	322	211	103
8	CR6	240	1,143	965	792	623	459	301	148
9	GH1	475	10,834	10,291	9,770	9,256	8,749	8,249	7,755
10	GH2	484	11,039	10,486	9,956	9,432	8,915	8,405	7,902
11	GH3	480	10,948	10,399	9,873	9,354	8,841	8,336	7,837
12	GH4	479	10,925	10,378	9,853	9,334	8,823	8,318	7,821
13	GR3	68	643	595	549	504	459	415	373
14	GR4	95	898	832	767	704	641	580	521
15	MC1	303	4,687	4,290	3,910	3,538	3,173	2,817	2,468
16	MC2	301	4,656	4,262	3,884	3,515	3,152	2,798	2,452
17	MC3	391	6,048	5,536	5,046	4,565	4,095	3,635	3,185
18	MC4	477	7,379	6,754	6,156	5,570	4,996	4,434	3,886
19	TC1	383	2,652	2,536	2,425	2,315	2,206	2,099	1,993
20	TC2	549	3,802	3,636	3,476	3,319	3,163	3,009	2,857
21	TY3	71	1,420	1,303	1,187	1,074	964	855	749
22									
23									
24		2.50%							
25									
26	2011 CR		0	0	0	0	0	0	0
27	2012 CR		0	0	0	0	0	0	0
28	2013 CR		0	0	0	0	0	0	0
29	2014 CR		0	0	0	0	0	0	0
30	2015 CR		0	0	0	0	0	0	0
31	2016 CR		0	0	0	0	0	0	0
32	2017 CR		0	0	0	0	0	0	0
33	2018 CR		0	0	0	0	0	0	0
34	2019 CR		0	0	0	0	0	0	0
35	2020 CR		0	0	0	0	0	0	0
36	2021 CR		0	0	0	0	0	0	0
37	2022 CR		0	0	0	0	0	0	0
38	2023 CR		0	0	0	0	0	0	0
39	2024 CR		0	0	0	0	0	0	0
40	2025 CR		0	0	0	0	0	0	0
41	2026 CR		0	0	0	0	0	0	0
42	2027 CR		0	0	0	0	0	0	0
43	2028 CR		0	0	0	0	0	0	0
44	2029 CR		0	0	0	0	0	0	0
45	2030 CR		0	0	0	0	0	0	0
46	2031 CR		0	0	0	0	0	0	0

	B	C	AS	AT	AU	AV	AW	AX	AY
2	Unit	Capacity	2052	2053	2054	2055	2056	2057	2058
47	2032 CR		0	0	0	0	0	0	0
48	2033 CR		0	0	0	0	0	0	0
49	2034 CR		299	0	0	0	0	0	0
50	2035 CR		325	306	0	0	0	0	0
51	2036 CR		352	333	314	0	0	0	0
52	2037 CR		381	361	342	322	0	0	0
53	2038 CR		410	390	370	350	330	0	0
54	2039 CR		441	421	400	379	359	338	0
55	2040 CR		473	452	431	410	389	368	347
56	2011 MC		0	0	0	0	0	0	0
57	2012 MC		0	0	0	0	0	0	0
58	2013 MC		0	0	0	0	0	0	0
59	2014 MC		0	0	0	0	0	0	0
60	2015 MC		0	0	0	0	0	0	0
61	2016 MC		0	0	0	0	0	0	0
62	2017 MC		0	0	0	0	0	0	0
63	2018 MC		0	0	0	0	0	0	0
64	2019 MC		0	0	0	0	0	0	0
65	2020 MC		0	0	0	0	0	0	0
66	2021 MC		0	0	0	0	0	0	0
67	2022 MC		0	0	0	0	0	0	0
68	2023 MC		0	0	0	0	0	0	0
69	2024 MC		0	0	0	0	0	0	0
70	2025 MC		0	0	0	0	0	0	0
71	2026 MC		0	0	0	0	0	0	0
72	2027 MC		970	0	0	0	0	0	0
73	2028 MC		1,055	995	0	0	0	0	0
74	2029 MC		1,143	1,081	1,020	0	0	0	0
75	2030 MC		1,235	1,172	1,108	1,045	0	0	0
76	2031 MC		1,330	1,266	1,201	1,136	1,071	0	0
77	2032 MC		1,430	1,364	1,297	1,231	1,164	1,098	0
78	2033 MC		1,534	1,466	1,398	1,330	1,262	1,194	1,125
79	2034 MC		1,642	1,572	1,503	1,433	1,363	1,293	1,223
80	2035 MC		1,755	1,683	1,612	1,540	1,469	1,397	1,325
81	2036 MC		1,872	1,799	1,725	1,652	1,579	1,505	1,432
82	2037 MC		1,994	1,919	1,844	1,768	1,693	1,618	1,543
83	2038 MC		2,121	2,044	1,967	1,890	1,813	1,736	1,659
84	2039 MC		2,253	2,174	2,095	2,016	1,937	1,858	1,779
85	2040 MC		2,437	2,309	2,228	2,147	2,066	1,985	1,904
86	2011 TC		0	0	0	0	0	0	0
87	2012 TC		79	0	0	0	0	0	0
88	2013 TC		86	81	0	0	0	0	0
89	2014 TC		93	88	83	0	0	0	0
90	2015 TC		101	96	91	85	0	0	0
91	2016 TC		109	103	98	93	88	0	0

	B	C	AS	AT	AU	AV	AW	AX	AY
2	Unit	Capacity	2052	2053	2054	2055	2056	2057	2058
92	2017 TC		117	111	106	101	95	90	0
93	2018 TC		125	120	114	109	103	98	92
94	2019 TC		134	128	123	117	111	106	100
95	2020 TC		143	137	131	126	120	114	108
96	2021 TC		152	147	141	135	129	123	117
97	2022 TC		162	156	150	144	138	132	126
98	2023 TC		173	166	160	154	148	141	135
99	2024 TC		183	177	171	164	158	151	145
100	2025 TC		194	188	181	175	168	162	155
101	2026 TC		206	199	193	186	179	173	166
102	2027 TC		218	211	204	197	191	184	177
103	2028 TC		231	224	217	209	202	195	188
104	2029 TC		244	236	229	222	215	207	200
105	2030 TC		257	250	242	235	227	220	213
106	2031 TC		271	264	256	248	241	233	226
107	2032 TC		286	278	270	262	255	247	239
108	2033 TC		301	293	285	277	269	261	253
109	2034 TC		317	308	300	292	284	276	267
110	2035 TC		333	324	316	308	299	291	283
111	2036 TC		350	341	333	324	315	307	298
112	2037 TC		367	358	350	341	332	323	314
113	2038 TC		385	376	367	358	349	340	331
114	2039 TC		404	395	386	377	367	358	349
115	2040 TC		433	414	405	396	386	377	367
116	2011 GH		0	0	0	0	0	0	0
117	2012 GH		0	0	0	0	0	0	0
118	2013 GH		0	0	0	0	0	0	0
119	2014 GH		0	0	0	0	0	0	0
120	2015 GH		0	0	0	0	0	0	0
121	2016 GH		712	0	0	0	0	0	0
122	2017 GH		773	729	0	0	0	0	0
123	2018 GH		837	792	748	0	0	0	0
124	2019 GH		904	858	812	766	0	0	0
125	2020 GH		974	927	880	833	785	0	0
126	2021 GH		1,047	998	950	902	853	805	0
127	2022 GH		1,123	1,073	1,023	974	924	875	825
128	2023 GH		1,201	1,151	1,100	1,049	998	947	897
129	2024 GH		1,283	1,231	1,179	1,127	1,075	1,023	971
130	2025 GH		1,369	1,316	1,262	1,209	1,155	1,102	1,049
131	2026 GH		1,458	1,403	1,348	1,294	1,239	1,184	1,130
132	2027 GH		1,550	1,494	1,438	1,382	1,326	1,270	1,214
133	2028 GH		1,647	1,589	1,532	1,474	1,417	1,359	1,302
134	2029 GH		1,747	1,688	1,629	1,570	1,511	1,452	1,393
135	2030 GH		1,851	1,790	1,730	1,670	1,609	1,549	1,488
136	2031 GH		1,959	1,897	1,835	1,773	1,711	1,649	1,588

	B	C	AS	AT	AU	AV	AW	AX	AY
2	Unit	Capacity	2052	2053	2054	2055	2056	2057	2058
137	2032	GH	2,071	2,008	1,944	1,881	1,818	1,754	1,691
138	2033	GH	2,188	2,123	2,058	1,993	1,928	1,863	1,798
139	2034	GH	2,309	2,243	2,176	2,109	2,043	1,976	1,910
140	2035	GH	2,435	2,367	2,299	2,231	2,162	2,094	2,026
141	2036	GH	2,566	2,496	2,426	2,356	2,286	2,216	2,146
142	2037	GH	2,702	2,630	2,559	2,487	2,415	2,343	2,272
143	2038	GH	2,843	2,770	2,696	2,623	2,549	2,476	2,402
144	2039	GH	2,990	2,914	2,839	2,764	2,688	2,613	2,537
145	2040	GH	3,206	3,065	2,987	2,910	2,833	2,755	2,678
146	2011	BR	0	0	0	0	0	0	0
147	2012	BR	0	0	0	0	0	0	0
148	2013	BR	0	0	0	0	0	0	0
149	2014	BR	0	0	0	0	0	0	0
150	2015	BR	0	0	0	0	0	0	0
151	2016	BR	0	0	0	0	0	0	0
152	2017	BR	170	0	0	0	0	0	0
153	2018	BR	185	175	0	0	0	0	0
154	2019	BR	201	190	179	0	0	0	0
155	2020	BR	217	206	195	183	0	0	0
156	2021	BR	233	222	211	199	188	0	0
157	2022	BR	251	239	228	216	204	193	0
158	2023	BR	269	257	245	233	221	209	198
159	2024	BR	288	276	263	251	239	227	215
160	2025	BR	307	295	282	270	257	245	233
161	2026	BR	328	315	302	290	277	264	251
162	2027	BR	349	336	323	310	297	284	271
163	2028	BR	371	358	344	331	318	304	291
164	2029	BR	394	381	367	353	339	326	312
165	2030	BR	418	404	390	376	362	348	334
166	2031	BR	443	429	414	400	385	371	356
167	2032	BR	469	454	440	425	410	395	380
168	2033	BR	496	481	466	451	435	420	405
169	2034	BR	524	509	493	477	462	446	431
170	2035	BR	553	537	521	505	489	473	457
171	2036	BR	583	567	551	534	518	502	485
172	2037	BR	615	598	581	564	548	531	514
173	2038	BR	647	630	613	596	579	561	544
174	2039	BR	681	663	646	628	611	593	575
175	2040	BR	716	698	680	662	644	626	608
176	2011	GR	0	0	0	0	0	0	0
177	2012	GR	0	0	0	0	0	0	0
178	2013	GR	0	0	0	0	0	0	0
179	2014	GR	0	0	0	0	0	0	0
180	2015	GR	0	0	0	0	0	0	0
181	2016	GR	0	0	0	0	0	0	0

	B	C	AS	AT	AU	AV	AW	AX	AY
2	Unit	Capacity	2052	2053	2054	2055	2056	2057	2058
182	2017 GR		0	0	0	0	0	0	0
183	2018 GR		0	0	0	0	0	0	0
184	2019 GR		0	0	0	0	0	0	0
185	2020 GR		0	0	0	0	0	0	0
186	2021 GR		0	0	0	0	0	0	0
187	2022 GR		0	0	0	0	0	0	0
188	2023 GR		0	0	0	0	0	0	0
189	2024 GR		0	0	0	0	0	0	0
190	2025 GR		54	0	0	0	0	0	0
191	2026 GR		58	55	0	0	0	0	0
192	2027 GR		63	60	56	0	0	0	0
193	2028 GR		68	65	61	58	0	0	0
194	2029 GR		73	70	66	63	59	0	0
195	2030 GR		79	75	72	68	64	61	0
196	2031 GR		85	81	77	73	70	66	62
197	2032 GR		91	87	83	79	75	71	67
198	2033 GR		97	93	89	85	81	77	73
199	2034 GR		103	99	95	91	87	83	79
200	2035 GR		110	106	102	98	93	89	85
201	2036 GR		117	113	108	104	100	96	91
202	2037 GR		124	120	115	111	107	102	98
203	2038 GR		132	127	123	118	114	109	105
204	2039 GR		140	135	130	126	121	117	112
205	2040 GR		148	143	138	134	129	124	120
206	2011 TY		0	0	0	0	0	0	0
207	2012 TY		0	0	0	0	0	0	0
208	2013 TY		0	0	0	0	0	0	0
209	2014 TY		0	0	0	0	0	0	0
210	2015 TY		0	0	0	0	0	0	0
211	2016 TY		0	0	0	0	0	0	0
212	2017 TY		0	0	0	0	0	0	0
213	2018 TY		0	0	0	0	0	0	0
214	2019 TY		0	0	0	0	0	0	0
215	2020 TY		0	0	0	0	0	0	0
216	2021 TY		0	0	0	0	0	0	0
217	2022 TY		0	0	0	0	0	0	0
218	2023 TY		0	0	0	0	0	0	0
219	2024 TY		0	0	0	0	0	0	0
220	2025 TY		0	0	0	0	0	0	0
221	2026 TY		0	0	0	0	0	0	0
222	2027 TY		61	0	0	0	0	0	0
223	2028 TY		66	62	0	0	0	0	0
224	2029 TY		71	68	64	0	0	0	0
225	2030 TY		77	73	69	65	0	0	0
226	2031 TY		83	79	75	71	67	0	0

	B	C	AS	AT	AU	AV	AW	AX	AY
2	Unit	Capacity	2052	2053	2054	2055	2056	2057	2058
227	2032 TY		89	85	81	77	73	69	0
228	2033 TY		96	92	87	83	79	75	70
229	2034 TY		103	98	94	90	85	81	76
230	2035 TY		110	105	101	96	92	87	83
231	2036 TY		117	112	108	103	99	94	89
232	2037 TY		125	120	115	111	106	101	96
233	2038 TY		133	128	123	118	113	108	104
234	2039 TY		141	136	131	126	121	116	111
235	2040 TY		149	144	139	134	129	124	119

	B	C	AZ
1			
2	Unit	Capacity	2059
3	BR1	101	946
4	BR2	167	1,564
5	BR3	416	3,897
6	CR4	155	0
7	CR5	168	0
8	CR6	240	0
9	GH1	475	7,269
10	GH2	484	7,407
11	GH3	480	7,346
12	GH4	479	7,331
13	GR3	68	331
14	GR4	95	462
15	MC1	303	2,128
16	MC2	301	2,114
17	MC3	391	2,746
18	MC4	477	3,350
19	TC1	383	1,888
20	TC2	549	2,706
21	TY3	71	646
22			
23			
24		2.50%	
25			
26	2011 CR		0
27	2012 CR		0
28	2013 CR		0
29	2014 CR		0
30	2015 CR		0
31	2016 CR		0
32	2017 CR		0
33	2018 CR		0
34	2019 CR		0
35	2020 CR		0
36	2021 CR		0
37	2022 CR		0
38	2023 CR		0
39	2024 CR		0
40	2025 CR		0
41	2026 CR		0
42	2027 CR		0
43	2028 CR		0
44	2029 CR		0
45	2030 CR		0
46	2031 CR		0

	B	C	AZ
2	Unit	Capacity	2059
47	2032 CR		0
48	2033 CR		0
49	2034 CR		0
50	2035 CR		0
51	2036 CR		0
52	2037 CR		0
53	2038 CR		0
54	2039 CR		0
55	2040 CR		0
56	2011 MC		0
57	2012 MC		0
58	2013 MC		0
59	2014 MC		0
60	2015 MC		0
61	2016 MC		0
62	2017 MC		0
63	2018 MC		0
64	2019 MC		0
65	2020 MC		0
66	2021 MC		0
67	2022 MC		0
68	2023 MC		0
69	2024 MC		0
70	2025 MC		0
71	2026 MC		0
72	2027 MC		0
73	2028 MC		0
74	2029 MC		0
75	2030 MC		0
76	2031 MC		0
77	2032 MC		0
78	2033 MC		0
79	2034 MC		1,154
80	2035 MC		1,254
81	2036 MC		1,359
82	2037 MC		1,468
83	2038 MC		1,581
84	2039 MC		1,700
85	2040 MC		1,823
86	2011 TC		0
87	2012 TC		0
88	2013 TC		0
89	2014 TC		0
90	2015 TC		0
91	2016 TC		0

	B	C	AZ
2	Unit	Capacity	2059
92	2017 TC		0
93	2018 TC		0
94	2019 TC		94
95	2020 TC		102
96	2021 TC		111
97	2022 TC		120
98	2023 TC		129
99	2024 TC		139
100	2025 TC		149
101	2026 TC		159
102	2027 TC		170
103	2028 TC		181
104	2029 TC		193
105	2030 TC		205
106	2031 TC		218
107	2032 TC		231
108	2033 TC		245
109	2034 TC		259
110	2035 TC		274
111	2036 TC		290
112	2037 TC		306
113	2038 TC		322
114	2039 TC		340
115	2040 TC		358
116	2011 GH		0
117	2012 GH		0
118	2013 GH		0
119	2014 GH		0
120	2015 GH		0
121	2016 GH		0
122	2017 GH		0
123	2018 GH		0
124	2019 GH		0
125	2020 GH		0
126	2021 GH		0
127	2022 GH		0
128	2023 GH		846
129	2024 GH		919
130	2025 GH		995
131	2026 GH		1,075
132	2027 GH		1,158
133	2028 GH		1,244
134	2029 GH		1,334
135	2030 GH		1,428
136	2031 GH		1,526

	B	C	AZ
2	Unit	Capacity	2059
137	2032 GH		1,627
138	2033 GH		1,733
139	2034 GH		1,843
140	2035 GH		1,957
141	2036 GH		2,076
142	2037 GH		2,200
143	2038 GH		2,328
144	2039 GH		2,462
145	2040 GH		2,601
146	2011 BR		0
147	2012 BR		0
148	2013 BR		0
149	2014 BR		0
150	2015 BR		0
151	2016 BR		0
152	2017 BR		0
153	2018 BR		0
154	2019 BR		0
155	2020 BR		0
156	2021 BR		0
157	2022 BR		0
158	2023 BR		0
159	2024 BR		203
160	2025 BR		220
161	2026 BR		238
162	2027 BR		257
163	2028 BR		277
164	2029 BR		298
165	2030 BR		320
166	2031 BR		342
167	2032 BR		365
168	2033 BR		390
169	2034 BR		415
170	2035 BR		441
171	2036 BR		469
172	2037 BR		497
173	2038 BR		527
174	2039 BR		558
175	2040 BR		590
176	2011 GR		0
177	2012 GR		0
178	2013 GR		0
179	2014 GR		0
180	2015 GR		0
181	2016 GR		0

	B	C	AZ
2	Unit	Capacity	2059
182	2017 GR		0
183	2018 GR		0
184	2019 GR		0
185	2020 GR		0
186	2021 GR		0
187	2022 GR		0
188	2023 GR		0
189	2024 GR		0
190	2025 GR		0
191	2026 GR		0
192	2027 GR		0
193	2028 GR		0
194	2029 GR		0
195	2030 GR		0
196	2031 GR		0
197	2032 GR		64
198	2033 GR		69
199	2034 GR		75
200	2035 GR		81
201	2036 GR		87
202	2037 GR		94
203	2038 GR		101
204	2039 GR		108
205	2040 GR		115
206	2011 TY		0
207	2012 TY		0
208	2013 TY		0
209	2014 TY		0
210	2015 TY		0
211	2016 TY		0
212	2017 TY		0
213	2018 TY		0
214	2019 TY		0
215	2020 TY		0
216	2021 TY		0
217	2022 TY		0
218	2023 TY		0
219	2024 TY		0
220	2025 TY		0
221	2026 TY		0
222	2027 TY		0
223	2028 TY		0
224	2029 TY		0
225	2030 TY		0
226	2031 TY		0

	B	C	AZ
2	Unit	Capacity	2059
227	2032 TY		0
228	2033 TY		0
229	2034 TY		72
230	2035 TY		78
231	2036 TY		85
232	2037 TY		92
233	2038 TY		99
234	2039 TY		106
235	2040 TY		114

	A	B	C	D	E	F	G	H	I
1				\$000					
2	Station	Unit	Capacity	2011	2012	2013	2014	2015	2016
3	BR	BR1	101	0	0	0	0	0	441
4	BR	BR2	167	0	0	0	0	0	729
5	BR	BR3	416	0	0	0	0	0	1,816
6	CR	CR4	155	258	840	1,124	1,095	1,216	1,960
7	CR	CR5	168	279	910	1,219	1,187	1,318	2,124
8	CR	CR6	240	399	1,300	1,741	1,696	1,882	5,221
9	GH	GH1	475	0	0	0	0	0	5,620
10	GH	GH2	484	0	0	0	0	0	5,727
11	GH	GH3	480	0	0	0	0	0	5,680
12	GH	GH4	479	0	0	0	0	0	5,668
13	GR	GR3	68						
14	GR	GR4	95						
15	MC	MC1	303						
16	MC	MC2	301						
17	MC	MC3	391						
18	MC	MC4	477						
19	TC	TC1	383	0	0	0	0	0	1,965
20	TC	TC2	549	0	0	0	0	0	2,817
21	TY	TY3	71						
22									
23									
24		BR Landfill Phase 2 Savings		0	0	0	0	0	0
25		BR Landfill Phase 3 Savings		0	0	0	0	0	0
26		BR Landfill O&M Savings		0	0	0	0	0	2,985
27		CR Landfill Capital Savings		936	3,049	4,083	3,979	4,416	4,938
28		CR Landfill O&M Savings		0	0	0	0	0	2,181
29		CR6 Stator Rewind Savings		0	0	0	0	0	2,187
30		GH Landfill Capital Savings		0	0	0	0	0	61
31		GH Landfill O&M Savings		0	0	0	0	0	22,633
32		TC Landfill Capital Savings		0	0	0	0	0	0
33		TC Landfill O&M Savings		0	0	0	0	0	4,782

	B	C	J	K	L	M	N	O	P
1									
2	Unit	Capacity	2017	2018	2019	2020	2021	2022	2023
3	BR1	101	454	590	616	785	787	789	1,035
4	BR2	167	751	975	1,018	1,299	1,301	1,305	1,711
5	BR3	416	1,870	2,430	2,536	3,235	3,242	3,252	4,261
6	CR4	155	1,949	1,644	1,927	2,572	2,560	2,096	2,059
7	CR5	168	2,112	1,782	2,089	2,788	2,774	2,272	2,232
8	CR6	240	5,152	4,566	4,899	5,799	5,682	4,867	4,712
9	GH1	475	5,988	6,566	7,371	8,085	8,761	9,219	9,707
10	GH2	484	6,101	6,691	7,510	8,238	8,927	9,394	9,891
11	GH3	480	6,051	6,635	7,448	8,170	8,854	9,316	9,809
12	GH4	479	6,038	6,622	7,433	8,153	8,835	9,297	9,789
13	GR3	68							
14	GR4	95							
15	MC1	303							
16	MC2	301							
17	MC3	391							
18	MC4	477							
19	TC1	383	2,066	2,172	2,216	2,260	2,305	2,351	2,398
20	TC2	549	2,961	3,114	3,176	3,240	3,304	3,371	3,438
21	TY3	71							
22									
23									
24	Landfill Phase 2 Savings		0	828	908	1,960	1,870	1,782	1,697
25	Landfill Phase 3 Savings		0	0	0	0	0	0	1,638
26	R Landfill O&M Savings		3,075	3,167	3,262	3,360	3,461	3,564	3,671
27	Landfill Capital Savings		4,772	3,579	4,464	6,617	6,353	4,493	4,170
28	R Landfill O&M Savings		2,307	2,393	2,537	2,726	2,944	3,121	3,308
29	Stator Rewind Savings		2,135	2,020	1,914	1,816	1,719	1,621	1,524
30	Landfill Capital Savings		188	1,083	2,805	4,044	4,399	4,388	4,387
31	H Landfill O&M Savings		23,991	25,431	26,957	28,601	30,979	32,838	34,808
32	Landfill Capital Savings		0	0	0	0	0	0	0
33	C Landfill O&M Savings		5,027	5,286	5,392	5,500	5,610	5,722	5,836

	B	C	Q	R	S	T	U	V	W
1									
2	Unit	Capacity	2024	2025	2026	2027	2028	2029	2030
3	BR1	101	1,054	1,357	1,337	1,319	1,301	1,285	1,267
4	BR2	167	1,743	2,245	2,211	2,180	2,151	2,124	2,095
5	BR3	416	4,342	5,591	5,508	5,431	5,359	5,291	5,219
6	CR4	155	2,073	1,531	1,768	1,810	1,869	1,932	2,000
7	CR5	168	2,247	1,659	1,916	1,962	2,025	2,094	2,168
8	CR6	240	4,637	3,700	3,969	3,960	4,000	4,047	4,101
9	GH1	475	10,790	12,508	14,281	15,439	15,604	16,273	16,860
10	GH2	484	10,994	12,745	14,551	15,732	15,900	16,581	17,180
11	GH3	480	10,904	12,640	14,431	15,602	15,769	16,444	17,038
12	GH4	479	10,881	12,614	14,401	15,569	15,736	16,410	17,002
13	GR3	68							
14	GR4	95							
15	MC1	303							
16	MC2	301							
17	MC3	391							
18	MC4	477							
19	TC1	383	2,446	2,495	2,545	2,596	2,648	5,363	8,239
20	TC2	549	3,507	3,577	3,648	3,721	3,796	7,687	11,809
21	TY3	71							
22									
23									
24	Landfill Phase 2 Savings		1,613	1,531	1,451	1,372	1,294	1,215	1,123
25	Landfill Phase 3 Savings		1,745	3,767	3,594	3,426	3,261	3,101	2,943
26	R Landfill O&M Savings		3,781	3,895	4,012	4,132	4,256	4,384	4,515
27	Landfill Capital Savings		4,023	1,844	2,496	2,513	2,483	2,455	2,429
28	R Landfill O&M Savings		3,507	3,717	3,925	4,061	4,305	4,563	4,837
29	Stator Rewind Savings		1,427	1,329	1,232	1,158	1,106	1,055	1,004
30	Landfill Capital Savings		6,672	11,397	16,206	18,397	18,341	18,358	17,892
31	H Landfill O&M Savings		36,897	39,110	41,457	43,944	44,668	47,348	50,189
32	Landfill Capital Savings		0	0	0	0	0	6,478	13,344
33	C Landfill O&M Savings		5,953	6,072	6,194	6,318	6,444	6,573	6,704

	B	C	X	Y	Z	AA	AB	AC	AD
1									
2	Unit	Capacity	2031	2032	2033	2034	2035	2036	2037
3	BR1	101	1,122	410	385	360	331	54	46
4	BR2	167	1,855	678	636	595	547	89	76
5	BR3	416	4,620	1,688	1,585	1,482	1,363	222	189
6	CR4	155	1,861	1,810	1,778	1,748	1,719	1,692	1,708
7	CR5	168	2,017	1,962	1,927	1,895	1,864	1,834	1,851
8	CR6	240	3,833	3,704	3,602	2,777	2,662	2,620	2,645
9	GH1	475	17,332	17,856	18,548	19,372	20,254	21,186	21,692
10	GH2	484	17,660	18,195	18,899	19,739	20,637	21,587	22,103
11	GH3	480	17,514	18,044	18,743	19,576	20,467	21,409	21,921
12	GH4	479	17,478	18,007	18,704	19,535	20,424	21,364	21,875
13	GR3	68							
14	GR4	95							
15	MC1	303							
16	MC2	301							
17	MC3	391							
18	MC4	477							
19	TC1	383	8,294	12,354	12,003	11,666	11,343	11,031	10,731
20	TC2	549	11,888	17,709	17,206	16,723	16,259	15,812	15,382
21	TY3	71							
22									
23									
24	Landfill Phase 2 Savings		156	138	120	101	83	64	46
25	Landfill Phase 3 Savings		2,789	2,638	2,487	2,336	2,158	301	265
26	R Landfill O&M Savings		4,651						
27	Landfill Capital Savings		1,631	1,345	1,123	908	695	485	430
28	R Landfill O&M Savings		5,128	5,230	5,335	5,441	5,550	5,661	5,774
29	Stator Rewind Savings		952	901	850	70	0	0	0
30	Landfill Capital Savings		16,784	15,709	15,118	14,860	14,617	14,352	12,126
31	H Landfill O&M Savings		53,201	56,393	59,776	63,363	67,165	71,194	75,466
32	Landfill Capital Savings		13,344	23,088	22,094	21,132	20,199	19,293	18,412
33	C Landfill O&M Savings		6,838	6,975	7,115	7,257	7,402	7,550	7,701

	B	C	AE	AF	AG
1					
2	Unit	Capacity	2038	2039	2040
3	BR1	101	38	30	23
4	BR2	167	63	50	39
5	BR3	416	157	124	97
6	CR4	155	1,727	1,747	1,771
7	CR5	168	1,872	1,894	1,919
8	CR6	240	2,674	2,705	2,742
9	GH1	475	2,492	1,854	1,700
10	GH2	484	2,539	1,889	1,733
11	GH3	480	2,518	1,874	1,718
12	GH4	479	2,513	1,870	1,715
13	GR3	68			
14	GR4	95			
15	MC1	303			
16	MC2	301			
17	MC3	391			
18	MC4	477			
19	TC1	383	10,442	10,162	9,886
20	TC2	549	14,967	14,567	14,170
21	TY3	71			
22					
23					
24	Landfill Phase 2 Savings		28	9	0
25	Landfill Phase 3 Savings		230	194	159
26	R Landfill O&M Savings				
27	Landfill Capital Savings		384	338	303
28	R Landfill O&M Savings		5,890	6,008	6,128
29	Stator Rewind Savings		0	0	0
30	Landfill Capital Savings		9,906	7,329	6,705
31	H Landfill O&M Savings		155	158	161
32	Landfill Capital Savings		17,554	16,717	15,883
33	C Landfill O&M Savings		7,855	8,012	8,172

Station	Unit	Capacity	\$000					
			2011	2012	2013	2014	2015	2016
BR	BR1	101	0	0	0	553	743	703
BR	BR2	167	0	0	0	915	1,228	1,163
BR	BR3	416	0	0	0	2,279	3,060	2,897
CR	CR4	155	0	0	0	980	1,582	1,494
CR	CR5	168	0	0	0	1,062	1,715	1,619
CR	CR6	240	0	0	0	1,518	2,449	2,313
GH	GH1	475	0	0	0	1,462	1,954	1,856
GH	GH2	484	0	0	0	1,489	1,991	1,891
GH	GH3	480	0	0	0	1,477	1,975	1,876
GH	GH4	479	0	0	0	1,474	1,971	1,872
GR	GR3	68	0	0	0	586	837	792
GR	GR4	95	0	0	0	819	1,169	1,106
MC	MC1	303	0	0	0	1,215	1,774	1,682
MC	MC2	301	0	0	0	1,207	1,762	1,671
MC	MC3	391	0	0	0	1,568	2,289	2,171
MC	MC4	477	0	0	0	1,913	2,792	2,648
TC	TC1	383	0	0	0	770	1,008	958
TC	TC2	549	0	0	0	1,104	1,445	1,373
TY	TY3	71	0	0	0	586	837	792
		BRWATER	0	0	0	3,747	5,032	4,763
		CRWATER	0	0	0	3,560	5,746	5,427
		MCWATER	0	0	0	5,902	8,617	8,173
		TCWATER	0	0	0	1,874	2,453	2,331
		GHWATER	0	0	0	5,902	7,892	7,495
		GRWATER	0	0	0	1,405	2,006	1,898

Unit	Capacity	2017	2018	2019	2020	2021	2022	2023
BR1	101	668	635	606	577	548	519	491
BR2	167	1,104	1,050	1,002	954	907	859	811
BR3	416	2,749	2,616	2,496	2,377	2,258	2,140	2,021
CR4	155	1,413	1,339	1,269	1,201	1,132	1,064	996
CR5	168	1,532	1,451	1,376	1,302	1,227	1,153	1,079
CR6	240	2,188	2,073	1,966	1,860	1,754	1,647	1,541
GH1	475	1,767	1,686	1,611	1,540	1,468	1,397	1,325
GH2	484	1,800	1,718	1,642	1,569	1,496	1,423	1,350
GH3	480	1,786	1,703	1,628	1,556	1,484	1,411	1,339
GH4	479	1,782	1,700	1,625	1,553	1,481	1,409	1,337
GR3	68	751	713	679	645	611	577	544
GR4	95	1,049	996	948	901	854	807	759
MC1	303	1,598	1,521	1,449	1,380	1,311	1,242	1,173
MC2	301	1,588	1,511	1,440	1,371	1,302	1,234	1,165
MC3	391	2,063	1,963	1,870	1,781	1,692	1,602	1,513
MC4	477	2,516	2,394	2,281	2,172	2,064	1,955	1,846
TC1	383	912	871	833	797	760	724	688
TC2	549	1,307	1,248	1,194	1,142	1,090	1,038	986
TY3	71	751	713	679	645	611	577	544
BRWATER		4,521	4,302	4,104	3,908	3,713	3,518	3,323
CRWATER		5,134	4,863	4,611	4,362	4,113	3,865	3,616
MCWATER		7,765	7,389	7,040	6,704	6,368	6,032	5,696
TCWATER		2,220	2,119	2,026	1,938	1,850	1,762	1,674
GHWATER		7,135	6,806	6,505	6,217	5,928	5,640	5,352
GRWATER		1,799	1,709	1,627	1,546	1,465	1,384	1,303

Unit	Capacity	2024	2025	2026	2027	2028	2029	2030
BR1	101	462	433	413	403	393	382	372
BR2	167	764	716	684	666	649	632	615
BR3	416	1,902	1,784	1,703	1,660	1,617	1,574	1,531
CR4	155	927	859	806	770	735	699	663
CR5	168	1,005	931	874	835	796	757	718
CR6	240	1,435	1,329	1,249	1,193	1,137	1,082	1,026
GH1	475	1,254	1,183	1,111	1,062	1,035	1,008	982
GH2	484	1,278	1,205	1,132	1,082	1,055	1,028	1,000
GH3	480	1,267	1,195	1,123	1,073	1,046	1,019	992
GH4	479	1,265	1,193	1,121	1,071	1,044	1,017	990
GR3	68	510	476	452	438	423	409	395
GR4	95	712	665	631	611	591	571	551
MC1	303	1,103	1,034	965	915	882	850	818
MC2	301	1,096	1,027	959	908	877	845	813
MC3	391	1,424	1,335	1,245	1,180	1,139	1,097	1,056
MC4	477	1,737	1,628	1,519	1,440	1,389	1,339	1,288
TC1	383	652	616	579	555	542	529	517
TC2	549	934	882	830	795	777	759	741
TY3	71	510	476	452	438	423	409	395
BRWATER		3,128	2,933	2,800	2,729	2,659	2,588	2,517
CRWATER		3,367	3,118	2,929	2,798	2,668	2,537	2,407
MCWATER		5,361	5,025	4,689	4,443	4,287	4,131	3,976
TCWATER		1,586	1,498	1,410	1,350	1,319	1,288	1,258
GHWATER		5,063	4,775	4,487	4,288	4,180	4,072	3,964
GRWATER		1,222	1,141	1,083	1,049	1,015	980	946

Unit	Capacity	2031	2032	2033	2034	2035	2036	2037
BR1	101	361	351	340	330	320	309	299
BR2	167	597	580	563	546	528	511	494
BR3	416	1,488	1,445	1,402	1,359	1,316	1,273	1,230
CR4	155	627	591	0	0	0	0	0
CR5	168	679	640	0	0	0	0	0
CR6	240	970	915	0	0	0	0	0
GH1	475	955	928	901	875	848	821	794
GH2	484	973	946	918	891	864	837	809
GH3	480	965	938	911	884	857	830	803
GH4	479	963	936	909	882	855	828	801
GR3	68	380	366	352	337	323	309	294
GR4	95	531	511	491	471	451	431	411
MC1	303	786	754	722	690	658	626	594
MC2	301	781	749	717	686	654	622	590
MC3	391	1,015	973	932	891	849	808	766
MC4	477	1,238	1,187	1,137	1,086	1,036	986	935
TC1	383	504	491	479	466	453	441	428
TC2	549	723	704	686	668	650	632	613
TY3	71	380	366	352	337	323	309	294
BRWATER		2,447	2,376	2,305	2,235	2,164	2,094	2,023
CRWATER		2,277	2,146	0	0	0	0	0
MCWATER		3,820	3,664	3,508	3,353	3,197	3,041	2,886
TCWATER		1,227	1,196	1,165	1,134	1,103	1,072	1,041
GHWATER		3,856	3,748	3,640	3,531	3,423	3,315	3,207
GRWATER		912	877	843	809	774	740	706

Unit	Capacity	2038	2039	2040	2041	2042	2043	2044
BR1	101	288	278	267	257	247	236	226
BR2	167	477	459	442	425	408	390	373
BR3	416	1,187	1,144	1,101	1,058	1,016	973	930
CR4	155	0	0	0	0	0	0	0
CR5	168	0	0	0	0	0	0	0
CR6	240	0	0	0	0	0	0	0
GH1	475	767	741	714	687	660	634	607
GH2	484	782	755	727	700	673	646	618
GH3	480	776	748	721	694	667	640	613
GH4	479	774	747	720	693	666	639	612
GR3	68	280	266	251	237	0	0	0
GR4	95	391	371	351	331	0	0	0
MC1	303	562	530	0	0	0	0	0
MC2	301	558	526	0	0	0	0	0
MC3	391	725	684	0	0	0	0	0
MC4	477	885	834	0	0	0	0	0
TC1	383	415	403	390	377	364	352	339
TC2	549	595	577	559	541	522	504	486
TY3	71	280	266	251	237	0	0	0
BRWATER		1,952	1,882	1,811	1,740	1,670	1,599	1,529
CRWATER		0	0	0	0	0	0	0
MCWATER		2,730	2,574	0	0	0	0	0
TCWATER		1,010	979	949	918	887	856	825
GHWATER		3,099	2,991	2,883	2,774	2,666	2,558	2,450
GRWATER		671	637	603	568	0	0	0

Unit	Capacity	2045	2046	2047	2048	2049	2050	2051
BR1	101	215	205	194	184	174	0	0
BR2	167	356	339	321	304	287	0	0
BR3	416	887	844	801	758	715	0	0
CR4	155	0	0	0	0	0	0	0
CR5	168	0	0	0	0	0	0	0
CR6	240	0	0	0	0	0	0	0
GH1	475	580	553	526	500	473	446	0
GH2	484	591	564	536	509	482	454	0
GH3	480	586	559	532	505	478	451	0
GH4	479	585	558	531	504	477	450	0
GR3	68	0	0	0	0	0	0	0
GR4	95	0	0	0	0	0	0	0
MC1	303	0	0	0	0	0	0	0
MC2	301	0	0	0	0	0	0	0
MC3	391	0	0	0	0	0	0	0
MC4	477	0	0	0	0	0	0	0
TC1	383	326	314	301	288	276	263	250
TC2	549	468	450	431	413	395	377	359
TY3	71	0	0	0	0	0	0	0
BRWATER		1,458	1,387	1,317	1,246	1,175	0	0
CRWATER		0	0	0	0	0	0	0
MCWATER		0	0	0	0	0	0	0
TCWATER		794	763	732	701	670	640	609
GHWATER		2,342	2,234	2,125	2,017	1,909	1,801	0
GRWATER		0	0	0	0	0	0	0

Unit	Capacity	2052	2053	2054	2055	2056	2057	2058
BR1	101	0	0	0	0	0	0	0
BR2	167	0	0	0	0	0	0	0
BR3	416	0	0	0	0	0	0	0
CR4	155	0	0	0	0	0	0	0
CR5	168	0	0	0	0	0	0	0
CR6	240	0	0	0	0	0	0	0
GH1	475	0	0	0	0	0	0	0
GH2	484	0	0	0	0	0	0	0
GH3	480	0	0	0	0	0	0	0
GH4	479	0	0	0	0	0	0	0
GR3	68	0	0	0	0	0	0	0
GR4	95	0	0	0	0	0	0	0
MC1	303	0	0	0	0	0	0	0
MC2	301	0	0	0	0	0	0	0
MC3	391	0	0	0	0	0	0	0
MC4	477	0	0	0	0	0	0	0
TC1	383	237	225	212	0	0	0	0
TC2	549	340	322	304	0	0	0	0
TY3	71	0	0	0	0	0	0	0
BRWATER		0	0	0	0	0	0	0
CRWATER		0	0	0	0	0	0	0
MCWATER		0	0	0	0	0	0	0
TCWATER		578	547	516	0	0	0	0
GHWATER		0	0	0	0	0	0	0
GRWATER		0	0	0	0	0	0	0

Unit	Capacity	2059
BR1	101	0
BR2	167	0
BR3	416	0
CR4	155	0
CR5	168	0
CR6	240	0
GH1	475	0
GH2	484	0
GH3	480	0
GH4	479	0
GR3	68	0
GR4	95	0
MC1	303	0
MC2	301	0
MC3	391	0
MC4	477	0
TC1	383	0
TC2	549	0
TY3	71	0

BRWATER	0
CRWATER	0
MCWATER	0
TCWATER	0
GHWATER	0
GRWATER	0

Net Present Value Revenue Requirement (NPVRR) of Installing Controls vs. Retiring and Replacing Capacity (Million 2010\$)

Supplemental Analysis - September 23rd, 2011

KU / LG&E Assumptions		Box 1
Original		Original, Formula Corrected
CPCN Results		
Tyrone 3	-13	-13
Green River 3	-80	-80
Brown 3	603	603
Cane Run 4	-88	-87
Cane Run 6	8	11
Brown 1-2	228	230
Cane Run 5	-58	-57
Ghent 3	914	921
Ghent 1	794	800
Green River 4	-110	-110
Mill Creek 4	859	859
Trimble County 1	993	996
Ghent 4	1,155	1,161
Mill Creek 3	756	756
Ghent 2	1,139	1,146
Mill Creek 1-2	1,022	1,022

KU / LG&E Assumptions		Box 2
Original, Formula Corrected		Original, Formula Corrected
CPCN Results, Landfill Year Corrected		
Tyrone 3	-13	-13
Green River 3	-80	-80
Brown 3	603	603
Cane Run 4	-87	-87
Cane Run 6	11	11
Brown 1-2	230	230
Cane Run 5	-57	-57
Ghent 3	921	921
Ghent 1	800	800
Green River 4	-110	-110
Mill Creek 4	859	859
Trimble County 1	996	996
Ghent 4	1,161	1,161
Mill Creek 3	756	756
Ghent 2	1,146	1,146
Mill Creek 1-2	1,022	1,022

Key	
If NPVRR relative to no retirement scenario	100
≥ \$40 M, retrofit	20
< \$40 M & ≥ \$0 M, high risk retrofit	20
< \$0 M, retire	-80

*Revised Natural Gas Forecast

Original KU/LG&E Analysis

Synapse Re-Analysis		Box 3
A		Corrected Gas Price *
Tyrone 3	-60	-60
Green River 3	-76	-76
Brown 3	270	270
Cane Run 4	-245	-245
Cane Run 6	-159	-159
Brown 1-2	-27	-27
Cane Run 5	-243	-243
Ghent 3	427	427
Ghent 1	300	300
Green River 4	-132	-132
Mill Creek 4	321	321
Trimble County 1	549	549
Ghent 4	595	595
Mill Creek 3	324	324
Ghent 2	602	602
Mill Creek 1-2	315	315

Synapse Re-Analysis		Box 4
B		SCR at Brown 1 & 2, Ghent 2, and Mill Creek 1 & 2
Tyrone 3	-13	-13
Green River 3	-80	-80
Brown 3	603	603
Cane Run 4	-87	-87
Cane Run 6	11	11
Brown 1-2 (+SCR)	34	34
Cane Run 5	-57	-57
Ghent 3	921	921
Ghent 1	800	800
Green River 4	-110	-110
Mill Creek 4	859	859
Trimble County 1	996	996
Ghent 4	1,161	1,161
Mill Creek 3	756	756
Ghent 2 (+SCR)	858	858
Mill Creek 1-2 (+SCR)	762	762

Synapse Re-Analysis		Box 5
C		Synapse Mid CO2 Price
Tyrone 3	-59	-59
Green River 3	-100	-100
Brown 3	249	249
Cane Run 4	-268	-268
Cane Run 6	-260	-260
Brown 1-2	18	18
Cane Run 5	-257	-257
Ghent 3	323	323
Ghent 1	262	262
Green River 4	-128	-128
Mill Creek 4	290	290
Trimble County 1	563	563
Ghent 4	550	550
Mill Creek 3	340	340
Ghent 2	576	576
Mill Creek 1-2	299	299

Single Variable Correction

Synapse Re-Analysis		Box 6
A + B		Corrected Gas Price* + SCR
Tyrone 3	-60	-60
Green River 3	-76	-76
Brown 3	270	270
Cane Run 4	-245	-245
Cane Run 6	-159	-159
Brown 1-2 (+SCR)	-222	-222
Cane Run 5	-243	-243
Ghent 3	427	427
Ghent 1	300	300
Green River 4	-132	-132
Mill Creek 4	321	321
Trimble County 1	549	549
Ghent 4	595	595
Mill Creek 3	324	324
Ghent 2 (+SCR)	314	314
Mill Creek 1-2 (+SCR)	55	55

Synapse Re-Analysis		Box 7
A + C		Corrected Gas Price* + CO2 Price
Tyrone 3	-67	-67
Green River 3	-133	-133
Brown 3	-217	-217
Cane Run 4	-444	-444
Cane Run 6	-499	-499
Brown 1-2	-267	-267
Cane Run 5	-469	-469
Ghent 3	-89	-89
Ghent 1	-170	-170
Green River 4	-191	-191
Mill Creek 4	-245	-245
Trimble County 1	98	98
Ghent 4	-145	-145
Mill Creek 3	-97	-97
Ghent 2	0	0
Mill Creek 1-2	-424	-424

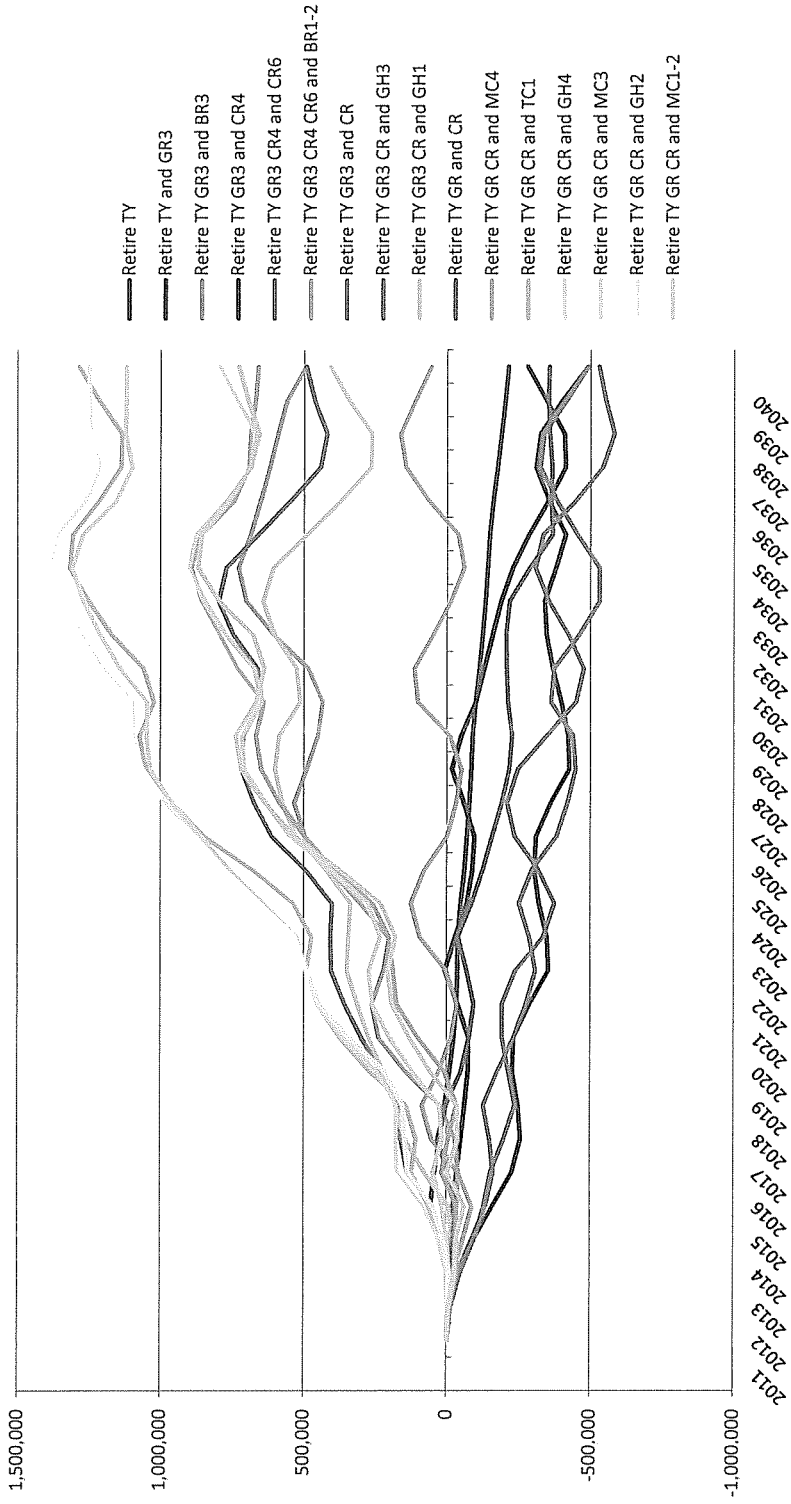
Synapse Re-Analysis		Box 8
A + B + C		Corrected Gas Price* + SCR + CO2 Price
Tyrone 3	-67	-67
Green River 3	-133	-133
Brown 3	-217	-217
Cane Run 4	-444	-444
Cane Run 6	-499	-499
Brown 1-2 (+SCR)	-463	-463
Cane Run 5	-469	-469
Ghent 3	-89	-89
Ghent 1	-170	-170
Green River 4	-191	-191
Mill Creek 4	-245	-245
Trimble County 1	98	98
Ghent 4	-145	-145
Mill Creek 3	-97	-97
Ghent 2 (+SCR)	-288	-288
Mill Creek 1-2 (+SCR)	-685	-685

Multiple Variable Correction

	Delta NPVRR \$M Install Controls / (Retire)
Tyrone 3	(59)
Brown 3	(100)
Cane Run 6	249
Brown 1-2	(268)
Cane Run 4-5	(260)
Green River 3-4	18
Ghent 1-4	(257)
Trimble County 1	323
Mill Creek 3-4	262
Mill Creek 1-2	(128)

Cumulative Difference in Revenue Requirements

Install Controls vs. Retire/Replace Capacity



Retirement Savings (Deltas)	Capital	O&M	Total
Retire TY	-22	-3	-26
Retire TY and GR3	-13	-50	-62
Retire TY GR3 and BR3	-98	-174	-272
Retire TY GR3 and CR4	-46	-140	-186
Retire TY GR3 CR4 and CR6	-84	-118	-202
Retire TY GR3 CR4 CR6 and BR1-2	-63	-129	-192
Retire TY GR3 and CR	-50	-149	-199
Retire TY GR3 CR and GH3	-203	-145	-348
Retire TY GR3 CR and GH1	-201	-210	-411
Retire TY GR and CR	-18	-100	-118
Retire TY GR CR and MC4	-105	-201	-306
Retire TY GR CR and TC1	-68	-203	-271
Retire TY GR CR and GH4	-203	-141	-343
Retire TY GR CR and MC3	-86	-201	-287
Retire TY GR CR and GH2	-205	-156	-361
Retire TY GR CR and MC1-2	-133	-325	-457

Revenue Requirement Deltas	Prod Cost	Capital	Total	Check
Retire TY	10	-69	-59	0
Retire TY and GR3	-41	-59	-100	0
Retire TY GR3 and BR3	457	-208	249	0
Retire TY GR3 and CR4	83	-350	-268	0
Retire TY GR3 CR4 and CR6	236	-496	-260	0
Retire TY GR3 CR4 CR6 and BR1-2	314	-296	18	0
Retire TY GR3 and CR	113	-370	-257	0
Retire TY GR3 CR and GH3	710	-387	323	0
Retire TY GR3 CR and GH1	635	-373	262	0
Retire TY GR and CR	-43	-85	-128	0
Retire TY GR CR and MC4	812	-522	290	0
Retire TY GR CR and TC1	748	-185	563	0
Retire TY GR CR and GH4	926	-376	550	0
Retire TY GR CR and MC3	655	-316	340	0
Retire TY GR CR and GH2	941	-365	576	0
Retire TY GR CR and MC1-2	1,098	-799	299	0

2038										
2039	SCCT(1)									
2040		SCCT(1)	SCCT(1)	SCCT(1)	SCCT(1)	SCCT(1)	SCCT(1)			
30 Yr PVRR (\$B)	23.6	23.7	23.8	24.7	24.2	24.8	25.5	25.3	26.6	26.6

10 11 12 13 14 15 16

TY GR CR MC4 TY GR CR IC1 TY GR CR GH4 TY GR CR MC3 TY GR CR GH2 TY GR CR MC1-2

3x1C(1) 3x1C(2) 3x1C(2) 3x1C(2) 3x1C(2) 3x1C(2) 3x1C(2)

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SCCT(1)

SCCT(1)

SCCT(1)	SCCT(1)	SCCT(1)	SCCT(1)
25.4	26.9	26.7	26.9
			26.6
			27.0
			27.5

Breakeven RR by Year (\$M)

Year \$	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>
TY	-59	-63	-67	-72	-76	-82	-87	-93	-99	-106
GR3	-100	-107	-114	-122	-130	-139	-148	-158	-168	-180
BR3	249	266	283	302	323	344	367	392	418	446
CR4	-268	-286	-305	-325	-347	-370	-395	-422	-450	-480
CR6	-260	-277	-296	-316	-337	-360	-384	-409	-437	-466
BR1-2	18	20	21	22	24	25	27	29	31	33
CR5	-257	-275	-293	-313	-334	-356	-380	-406	-433	-462
GH3	323	345	368	392	419	447	477	509	543	579
GH1	262	279	298	318	339	362	386	412	440	469
GR4	-128	-137	-146	-156	-166	-177	-189	-202	-216	-230
MC4	290	310	330	352	376	401	428	457	488	520
TC1	563	601	641	684	730	779	831	887	947	1,010
GH4	550	587	626	668	713	761	812	866	924	987
MC3	340	362	387	413	440	470	501	535	571	609
GH2	576	615	656	700	747	797	850	907	968	1,033
MC1-2	299	319	341	364	388	414	442	471	503	537

Breakeven Year

	<u>Must Op Thru</u>
BR3	2019
BR1-2	2021
GH3	2020
GH1	2021
MC4	2023
TC1	2018
GH4	2018
MC3	2021
GH2	2018
MC1-2	2024

Station	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
BR	BR1FFP 0	0	238	3,127	7,278	12,105	12,775	12,123	11,534	10,999	10,472
BR	BR1SAM 0	0	0	0	231	521	550	522	497	474	452
BR	BR2FFP 0	0	252	3,379	7,865	13,414	13,865	13,156	12,514	11,931	11,357
BR	BR2SAM 0	0	0	0	231	534	553	525	499	476	453
BR	BR3FFP 0	0	0	204	2,854	7,595	13,437	14,120	13,404	12,757	12,171
GH	GH1FFP 0	0	64	4,332	10,157	17,736	19,154	18,156	17,246	16,412	15,591
GH	GH1SAM 0	0	122	562	1,006	1,964	2,121	2,010	1,909	1,817	1,726
GH	GH2FFP 0	0	0	2,787	7,280	15,016	18,298	17,569	16,777	16,056	15,369
GH	GH2SAM 0	0	11	724	984	935	891	851	814	779	744
GH	GH3FFP 0	0	0	0	3,571	8,804	18,270	21,813	20,853	19,901	19,030
GH	GH3SAM 0	0	115	565	1,578	1,935	1,853	1,769	1,691	1,618	1,544
GH	GH4FFP 0	0	0	0	2,843	7,668	14,952	21,319	20,238	19,257	18,361
GH	GH4SAM 0	0	122	527	974	1,948	1,967	1,872	1,786	1,707	1,631
MC	MC1FGD 0	0	0	2,360	7,268	12,372	21,934	23,856	22,601	21,453	20,399
MC	MC1FFP 0	0	0	1,271	5,238	9,364	17,796	19,361	18,343	17,414	16,559
MC	MC1SAM 0	0	0	0	42	560	1,131	1,232	1,168	1,109	1,055
MC	MC2FGD 0	0	0	2,361	7,270	12,377	23,214	24,770	23,450	22,238	21,119
MC	MC2FFP 0	0	0	1,215	5,051	9,134	18,426	19,666	18,620	17,659	16,772
MC	MC2SAM 0	0	0	0	42	560	1,197	1,279	1,211	1,149	1,092
MC	MC3FGDU 0	0	0	646	3,668	6,975	9,472	9,135	8,699	8,295	7,908
MC	MC3FGDR 0	0	0	0	0	39	175	207	197	187	179
MC	MC3FFP 0	0	0	0	3,730	8,326	13,896	18,276	17,601	16,757	15,977
MC	MC3SAM 0	0	0	734	1,992	2,100	1,997	1,901	1,813	1,728	1,642
MC	MC4FGD 0	0	379	6,987	15,193	21,072	28,573	27,555	26,231	25,008	23,834
MC	MC4SCR 0	0	105	667	724	688	655	625	596	566	537
MC	MC4FFP 0	0	377	5,055	10,178	14,629	19,836	19,129	18,210	17,361	16,546
MC	MC4SAM 0	0	0	0	578	1,620	2,201	2,123	2,022	1,929	1,839
TC	TC1FFP 0	0	0	0	2,200	5,745	11,967	15,834	15,223	14,502	13,838
CR	CR4FGD 0	0	394	3,222	13,574	27,295	25,773	24,370	23,071	21,861	20,666
CR	CR4SCR 0	64	390	2,395	6,163	10,786	10,183	9,627	9,112	8,633	8,160
CR	CR4FF 0	0	280	1,715	3,329	5,526	5,216	4,930	4,666	4,421	4,178
CR	CR4PAC 0	0	0	0	235	386	365	345	327	310	293
CR	CR4LIME 0	0	0	0	259	427	403	381	361	342	323

CR	CR5	CR5FGD 0	0	359	3,311	14,658	29,304	27,663	26,148	24,742	23,429	22,132
CR	CR5	CR5SCR 0	63	388	2,719	6,475	11,557	10,908	10,308	9,752	9,234	8,721
CR	CR5	CR5FF 0	0	300	1,823	3,531	5,992	5,654	5,343	5,054	4,785	4,519
CR	CR5	CR5PAC 0	0	0	0	251	423	399	378	357	338	320
CR	CR5	CR5LIME 0	0	0	0	278	468	441	417	395	374	353
CR	CR6	CR6FGD 0	0	346	3,887	18,407	35,115	33,170	31,385	29,739	28,213	26,706
CR	CR6	CR6SCR 0	79	1,294	4,201	8,457	14,206	13,414	12,689	12,019	11,399	10,787
CR	CR6	CR6FF 0	0	394	2,364	4,540	7,252	6,848	6,477	6,136	5,819	5,507
CR	CR6	CR6PAC 0	0	0	0	352	558	527	499	473	448	424
CR	CR6	CR6LIME 0	0	0	0	391	619	585	553	525	498	471
GR	GR3	GR3SFF 0	0	0	1,323	4,035	5,553	5,254	4,983	4,739	4,516	4,297
GR	GR3	GR3PAC 0	0	0	0	112	154	145	138	131	125	119
GR	GR4	GR4SFF 0	0	0	1,885	5,750	8,517	8,050	7,626	7,237	6,881	6,529
GR	GR4	GR4PAC 0	0	0	0	160	235	223	211	200	190	181

9,946	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
429	9,420	8,894	8,368	7,842	7,483	7,291	7,099	6,908	6,716	6,525	6,333	6,141	
10,783	407	384	362	339	324	315	307	299	291	282	274	266	
431	10,210	9,636	9,062	8,488	8,095	7,881	7,668	7,455	7,242	7,028	6,815	6,602	
11,595	408	385	362	340	324	315	307	298	290	281	273	264	
14,769	11,019	10,443	9,867	9,290	8,714	8,325	8,122	7,920	7,717	7,514	7,311	7,109	
1,635	13,948	13,127	12,305	11,484	10,897	10,545	10,193	9,841	9,489	9,137	8,785	8,433	
14,684	1,544	1,453	1,362	1,271	1,206	1,167	1,128	1,089	1,050	1,011	972	933	
709	13,998	13,313	12,627	11,942	11,257	10,791	10,556	10,330	10,104	9,878	9,652	9,425	
18,199	674	639	605	570	546	535	523	511	500	488	476	464	
1,471	17,369	16,538	15,708	14,877	14,047	13,216	12,647	12,344	12,047	11,750	11,452	11,155	
17,541	1,397	1,324	1,250	1,177	1,126	1,099	1,073	1,047	1,020	994	967	941	
1,555	16,757	15,973	15,188	14,404	13,619	12,835	12,050	11,513	11,223	10,932	10,642	10,352	
19,360	1,479	1,403	1,328	1,252	1,176	1,124	1,096	1,068	1,039	1,011	983	955	
15,717	18,320	17,281	16,242	15,203	14,164	13,412	12,949	12,485	12,022	11,558	11,095	10,631	
1,001	14,875	14,032	13,190	12,348	11,506	10,896	10,520	10,143	9,767	9,390	9,013	8,637	
20,015	948	895	841	788	735	696	672	648	624	600	576	552	
15,896	18,911	17,806	16,702	15,598	14,494	13,677	13,148	12,618	12,088	11,558	11,028	10,499	
1,035	15,021	14,145	13,270	12,395	11,519	10,871	10,450	10,029	9,608	9,187	8,766	8,344	
7,522	978	922	865	808	752	710	682	655	627	600	572	545	
170	7,135	6,748	6,362	5,975	5,589	5,303	5,124	4,950	4,777	4,603	4,429	4,256	
15,228	162	154	145	137	128	121	115	111	107	104	100	96	
1,557	14,480	13,732	12,985	12,237	11,489	10,742	10,190	9,844	9,510	9,175	8,841	8,506	
22,662	1,472	1,387	1,302	1,217	1,155	1,116	1,077	1,039	1,000	961	923	884	
508	21,491	20,319	19,147	17,976	16,804	15,940	15,402	14,880	14,358	13,836	13,314	12,792	
15,733	479	449	420	399	386	372	359	346	332	319	306	292	
1,749	14,919	14,106	13,293	12,479	11,666	11,066	10,692	10,330	9,968	9,605	9,243	8,881	
13,200	1,660	1,570	1,480	1,391	1,301	1,235	1,193	1,153	1,112	1,072	1,031	991	
19,471	12,564	11,927	11,291	10,654	10,018	9,381	8,918	8,637	8,363	8,089	7,815	7,541	
7,687	18,276	17,081	15,886	14,691	13,773	13,130	12,488	11,845	11,203	10,560	0	0	
3,935	7,214	6,740	6,267	5,794	5,431	5,177	4,924	4,671	4,417	4,164	0	0	
276	3,692	3,450	3,207	2,964	2,778	2,648	2,519	2,389	2,260	2,130	0	0	
305	259	242	225	208	195	186	177	168	159	150	0	0	
	286	267	249	230	216	206	195	185	175	165	0	0	

20,835	19,538	18,241	16,944	15,647	14,641	13,924	13,207	12,490	11,774	0	0	0
8,208	7,696	7,183	6,670	6,158	5,760	5,478	5,196	4,914	4,632	0	0	0
4,253	3,987	3,721	3,455	3,189	2,983	2,837	2,691	2,545	2,399	0	0	0
301	282	263	245	226	212	201	191	180	170	0	0	0
333	312	291	271	250	234	222	211	199	188	0	0	0
25,199	23,692	22,185	20,678	19,171	18,033	17,265	16,496	15,727	14,959	14,190	13,421	12,653
10,175	9,563	8,951	8,339	7,727	7,266	6,956	6,646	6,337	6,027	5,717	5,408	5,098
5,194	4,882	4,569	4,257	3,944	3,709	3,551	3,393	3,235	3,077	2,919	2,761	2,602
401	377	353	329	305	287	275	262	250	238	226	213	201
445	418	391	365	338	318	305	291	278	264	250	237	223
4,078	3,859	3,640	3,421	3,202	3,050	2,967	2,884	2,800	2,717	2,634	2,550	2,467
113	107	101	95	89	85	82	80	78	75	73	71	68
6,177	5,825	5,473	5,122	4,770	4,515	4,356	4,198	4,040	3,881	3,723	3,565	3,407
171	161	152	142	132	125	121	116	112	108	103	99	94

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		2010	2011	2012	2013	2014	2015	2016	2017	2018
Retirement Cost										
	All Units	0	0	0	0	0	0	2100	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		
BR	BR2	6,633	7,160	7,253	7,398	7,546	7,697	7,851	8,008		
BR	BR3	15,885	20,876	14,904	15,202	15,506	15,816	16,132	16,455		
CR	CR4	14,372	9,218	12,029	12,269	12,515	12,765	13,020	13,281		
CR	CR5	11,842	9,889	12,791	13,047	13,308	13,574	13,845	14,122		
CR	CR6	10,666	11,619	10,173	10,376	10,584	10,795	11,011	11,231		
GH	GH1	17,829	19,141	17,966	18,325	18,691	19,065	19,447	19,835		
GH	GH2	12,225	18,498	13,429	13,698	13,972	14,251	14,536	14,827		
GH	GH3	17,961	13,501	12,475	12,724	12,979	13,238	13,503	13,773		
GH	GH4	11,533	13,496	12,105	12,347	12,594	12,846	13,103	13,365		
GR	GR3	4,270	5,792	4,360	4,447	4,536	4,627	4,719	4,813		
GR	GR4	7,338	6,924	8,633	8,805	8,982	9,161	9,344	9,531		
MC	MC1	11,892	17,333	12,669	12,923	13,181	13,445	13,714	13,988		
MC	MC2	16,179	11,941	15,201	15,505	15,815	16,131	16,454	16,783		
MC	MC3	18,313	14,238	17,221	17,566	17,917	18,275	18,641	19,014		
MC	MC4	16,531	18,981	17,245	17,590	17,942	18,300	18,666	19,040		
TC	TC1	17,205	15,170	17,403	17,751	18,106	18,468	18,837	19,214		
TY	TY3	410	416	418	427	435	444	453	462		

2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
0	0	0	0	0	0	0	0	0	0	0	0
4,470	4,559	4,651	4,744	4,838	4,935	5,034	5,135	5,237	5,342	5,449	5,558
8,168	8,331	8,498	8,668	8,841	9,018	9,199	9,383	9,570	9,762	9,957	10,156
16,784	17,120	17,462	17,811	18,167	18,531	18,901	19,279	19,665	20,058	20,460	20,869
13,546	13,817	14,094	14,375	14,663	14,956	15,255	15,560	15,872	16,189	16,513	16,843
14,405	14,693	14,987	15,286	15,592	15,904	16,222	16,546	16,877	17,215	17,559	17,910
11,456	11,685	11,919	12,157	12,400	12,648	12,901	13,159	13,423	13,691	13,965	14,244
20,232	20,637	21,050	21,471	21,900	22,338	22,785	23,240	23,705	24,179	24,663	25,156
15,124	15,426	15,735	16,049	16,370	16,698	17,032	17,372	17,720	18,074	18,436	18,804
14,049	14,330	14,616	14,909	15,207	15,511	15,821	16,138	16,460	16,790	17,125	17,468
13,632	13,905	14,183	14,467	14,756	15,051	15,352	15,659	15,973	16,292	16,618	16,950
4,910	5,008	5,108	5,210	5,314	5,421	5,529	5,640	5,753	5,868	5,985	6,105
9,722	9,916	10,115	10,317	10,523	10,734	10,949	11,167	11,391	11,619	11,851	12,088
14,268	14,553	14,844	15,141	15,444	15,753	16,068	16,389	16,717	17,051	17,392	17,740
17,118	17,461	17,810	18,166	18,530	18,900	19,278	19,664	20,057	20,458	20,867	21,285
19,394	19,782	20,177	20,581	20,993	21,412	21,841	22,278	22,723	23,178	23,641	24,114
19,421	19,809	20,205	20,609	21,021	21,442	21,871	22,308	22,754	23,209	23,674	24,147
19,598	19,990	20,390	20,798	21,214	21,638	22,071	22,512	22,962	23,422	23,890	24,368
471	480	490	500	510	520	530	541	552	563	574	586

2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
0	0	0	0	0	0	0	0	0	0
5,669	5,782	5,898	6,016	6,136	6,259	6,384	6,512	6,642	6,775
10,359	10,566	10,778	10,993	11,213	11,437	11,666	11,899	12,137	12,380
21,286	21,712	22,146	22,589	23,041	23,502	23,972	24,451	24,940	25,439
17,180	17,524	17,874	18,232	18,596	18,968	19,347	19,734	20,129	20,532
18,269	18,634	19,007	19,387	19,775	20,170	20,573	20,985	21,405	21,833
14,529	14,820	15,116	15,418	15,727	16,041	16,362	16,689	17,023	17,364
25,659	26,172	26,696	27,230	27,774	28,330	28,897	29,474	30,064	30,665
19,181	19,564	19,955	20,355	20,762	21,177	21,600	22,032	22,473	22,923
17,817	18,174	18,537	18,908	19,286	19,672	20,065	20,466	20,876	21,293
17,289	17,635	17,988	18,347	18,714	19,089	19,470	19,860	20,257	20,662
6,227	6,351	6,478	6,608	6,740	6,875	7,012	7,153	7,296	7,442
12,330	12,576	12,828	13,084	13,346	13,613	13,885	14,163	14,446	14,735
18,095	18,457	18,826	19,202	19,586	19,978	20,378	20,785	21,201	21,625
21,710	22,145	22,587	23,039	23,500	23,970	24,449	24,938	25,437	25,946
24,596	25,088	25,590	26,102	26,624	27,156	27,699	28,253	28,818	29,395
24,630	25,123	25,625	26,138	26,660	27,194	27,737	28,292	28,858	29,435
24,855	25,352	25,859	26,377	26,904	27,442	27,991	28,551	29,122	29,704
597	609	622	634	647	660	673	686	700	714

Escalation Rate: 2% Year \$: 2010
Fixed O&M
\$/yr

	Month	Year Equipment	2011	2012	2013	2014	2015	2016	2017
BR	BR1	2014 PJFF/PAC	0	0	0	598,882	610,860	623,077	635,538
BR	BR1	2014 SAM Mitigation	0	0	0	78,540	137,333	140,079	142,881
BR	BR2	2014 PJFF/PAC	0	0	0	714,168	728,451	743,020	757,880
BR	BR2	2014 SAM Mitigation	0	0	0	134,640	137,333	140,079	142,881
BR	BR3	2015 PJFF/PAC	0	0	0	0	1,067,560	1,088,911	1,110,689
GH	GH1	2014 PJFF/PAC	0	0	0	1,293,082	1,318,944	1,345,322	1,372,229
GH	GH1	2014 SCR Turn-Down	0	0	0	0	0	0	0
GH	GH1	2013 SAM Mitigation	0	0	0	4,899	0	0	0
GH	GH2	2014 PJFF/PAC	0	0	0	777,600	1,586,304	1,618,030	1,650,391
GH	GH2	2012 Sorbent Injection	0	8,064	98,700	100,674	102,687	104,741	106,836
GH	GH3	2015 PJFF/PAC	0	0	0	0	652,436	1,330,969	1,357,589
GH	GH3	2013 SCR Turn-Down	0	0	0	0	0	0	0
GH	GH3	2013 SAM Mitigation	0	0	0	0	0	0	0
GH	GH4	2015 PJFF/PAC	0	0	0	0	631,870	1,289,014	1,314,795
GH	GH4	2014 SCR Turn-Down	0	0	0	0	0	0	0
GH	GH4	2013 SAM Mitigation	0	0	0	0	0	0	0
MC	MC1	2015 Combined 1&2 FGD	0	0	0	0	-238,642	-219,636	-200,250
MC	MC1	2015 PJFF/PAC	0	0	0	0	1,446,222	1,475,147	1,504,650
MC	MC1	2015 SAM Mitigation	0	0	0	0	22,100	38,643	39,416
MC	MC2	2015 Combined 1&2 FGD	0	0	0	0	186,506	205,512	224,899
MC	MC2	2015 PJFF/PAC	0	0	0	0	1,418,867	1,447,245	1,476,189
MC	MC2	2015 SAM Mitigation	0	0	0	0	25,257	38,643	39,416
MC	MC3	2014 FGD	0	0	0	0	0	0	0
MC	MC3	2015 PJFF/PAC	0	0	0	0	646,753	1,319,377	1,345,764
MC	MC3	2013 SAM Mitigation	0	0	24,068	36,824	37,560	38,312	39,078
MC	MC3	2013 SCR Turn-Down	0	0	0	0	0	0	0
MC	MC4	2014 FGD	0	0	0	0	0	0	0
MC	MC4	2014 PJFF/PAC	0	0	0	743,376	1,516,487	1,546,817	1,577,754
MC	MC4	2014 SAM Mitigation	0	0	0	3,095	37,885	38,643	39,416
MC	MC4	2014 SCR Turn-Down	0	0	0	0	0	0	0
TC	TC1	2015 PJFF/PAC	0	0	0	0	493,761	1,007,273	1,027,418

CR	CR4	1	2016 SCR	1,871,000	0	0	0	0	0	0	2,107,050	2,149,191
CR	CR4	1	2016 WFGD		0	0	0	0	0	0	0	0
CR	CR4	1	2016 PJFF	1,191,000	0	0	0	0	0	0	1,341,259	1,368,085
CR	CR4	1	2016 SAM Mitigation	174,000	0	0	0	0	0	0	195,952	199,871
CR	CR4	1	2016 PAC Injection	169,000	0	0	0	0	0	0	190,321	194,128
CR	CR5	1	2016 SCR	1,993,000	0	0	0	0	0	0	2,244,442	2,289,331
CR	CR5	1	2016 WFGD		0	0	0	0	0	0	0	0
CR	CR5	1	2016 PJFF	1,251,000	0	0	0	0	0	0	1,408,829	1,437,006
CR	CR5	1	2016 SAM Mitigation	177,000	0	0	0	0	0	0	199,331	203,317
CR	CR5	1	2016 PAC Injection	172,000	0	0	0	0	0	0	193,700	197,574
CR	CR6	1	2016 SCR	2,392,000	0	0	0	0	0	0	2,693,781	2,747,656
CR	CR6	1	2016 WFGD		0	0	0	0	0	0	0	0
CR	CR6	1	2016 PJFF	1,632,000	0	0	0	0	0	0	1,837,897	1,874,655
CR	CR6	1	2016 SAM Mitigation	198,000	0	0	0	0	0	0	222,980	227,440
CR	CR6	1	2016 PAC Injection	191,000	0	0	0	0	0	0	215,097	219,399
GR	GR3	1	2016 SCR	943,000	0	0	0	0	0	0	1,061,971	1,083,211
GR	GR3	1	2016 CDS-FF	3,322,000	0	0	0	0	0	0	3,741,112	3,815,934
GR	GR3	1	2016 PAC Injection	141,000	0	0	0	0	0	0	158,789	161,965
GR	GR4	1	2016 SCR	1,284,000	0	0	0	0	0	0	1,445,993	1,474,912
GR	GR4	1	2016 CDS-FF	4,309,000	0	0	0	0	0	0	4,852,634	4,949,687
GR	GR4	1	2016 PAC Injection	150,000	0	0	0	0	0	0	168,924	172,303

<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>2028</u>	<u>2029</u>
648,249	661,214	674,439	687,927	701,686	715,720	730,034	744,635	759,527	774,718	790,212	806,016
145,739	148,653	151,627	154,659	157,752	160,907	164,125	167,408	170,756	174,171	177,655	181,208
773,038	788,499	804,269	820,354	836,761	853,496	870,566	887,978	905,737	923,852	942,329	961,175
145,739	148,653	151,627	154,659	157,752	160,907	164,125	167,408	170,756	174,171	177,655	181,208
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	1,381,002	1,408,622
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	1,706,194	1,740,318
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
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	2,052,054	2,093,095
108,973	111,152	113,375	115,643	117,956	120,315	122,721	125,175	127,679	130,232	132,837	135,494
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	1,687,991	1,721,751
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
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	1,634,782	1,667,477
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
-180,476	-160,306	-139,733	-118,749	-121,124	-123,546	-126,017	-128,537	-131,108	-133,730	-136,405	-139,133
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	1,870,843	1,908,260
40,204	41,008	41,828	42,665	43,518	44,388	45,276	46,182	47,105	48,047	49,008	49,989
244,673	264,842	285,415	306,400	312,528	318,778	325,154	331,657	338,290	345,056	351,957	358,996
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	1,835,456	1,872,165
40,204	41,008	41,828	42,665	43,518	44,388	45,276	46,182	47,105	48,047	49,008	49,989
0	0	0	0	0	0	0	0	0	0	0	0
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	1,673,288	1,706,754
39,859	40,657	41,470	42,299	43,145	44,008	44,888	45,786	46,702	47,636	48,588	49,560
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
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	1,961,738	2,000,973
40,204	41,008	41,828	42,665	43,518	44,388	45,276	46,182	47,105	48,047	49,008	49,989
0	0	0	0	0	0	0	0	0	0	0	0
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	1,277,465	1,303,015

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	2,672,249	2,725,694
0	0	0	0	0	0	0	0	0	0	0	0
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	1,701,041	1,735,062
203,869	207,946	212,105	216,347	220,674	225,088	229,589	234,181	238,865	243,642	248,515	253,485
198,010	201,971	206,010	210,130	214,333	218,620	222,992	227,452	232,001	236,641	241,374	246,201
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	2,846,495	2,903,425
0	0	0	0	0	0	0	0	0	0	0	0
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	1,786,736	1,822,471
207,384	211,531	215,762	220,077	224,479	228,968	233,548	238,219	242,983	247,843	252,800	257,856
201,525	205,556	209,667	213,860	218,138	222,500	226,950	231,489	236,119	240,842	245,658	250,572
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	3,416,365	3,484,692
0	0	0	0	0	0	0	0	0	0	0	0
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	2,330,898	2,377,516
231,989	236,628	241,361	246,188	251,112	256,134	261,257	266,482	271,812	277,248	282,793	288,449
223,787	228,263	232,828	237,484	242,234	247,079	252,020	257,061	262,202	267,446	272,795	278,251
1,104,875	1,126,972	1,149,512	1,172,502	1,195,952	1,219,871	1,244,268	1,269,154	1,294,537	1,320,428	1,346,836	1,373,773
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	4,744,634	4,839,527
165,204	168,508	171,878	175,316	178,822	182,399	186,047	189,767	193,563	197,434	201,383	205,410
1,504,411	1,534,499	1,565,189	1,596,493	1,628,422	1,660,991	1,694,211	1,728,095	1,762,657	1,797,910	1,833,868	1,870,546
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	6,154,313	6,277,399
175,749	179,264	182,849	186,506	190,236	194,041	197,922	201,880	205,918	210,036	214,237	218,522

<u>2030</u>	<u>2031</u>	<u>2032</u>	<u>2033</u>	<u>2034</u>	<u>2035</u>	<u>2036</u>	<u>2037</u>	<u>2038</u>	<u>2039</u>	<u>2040</u>
822,137	838,580	855,351	872,458	889,907	907,705	925,860	944,377	963,264	982,530	1,002,180
184,832	188,529	192,299	196,145	200,068	204,069	208,151	212,314	216,560	220,891	225,309
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
184,832	188,529	192,299	196,145	200,068	204,069	208,151	212,314	216,560	220,891	225,309
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
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
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
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
138,204	140,968	143,787	146,663	149,596	152,588	155,640	158,753	161,928	165,166	168,470
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
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
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
0	0	0	0	0	0	0	0	0	0	0
-141,916	-144,754	-147,649	-150,602	-153,614	-156,686	-159,820	-163,017	-166,277	-169,602	-172,994
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
50,988	52,008	53,048	54,109	55,191	56,295	57,421	58,570	59,741	60,936	62,155
366,176	373,499	380,969	388,589	396,361	404,288	412,374	420,621	429,033	437,614	446,366
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
50,988	52,008	53,048	54,109	55,191	56,295	57,421	58,570	59,741	60,936	62,155
0	0	0	0	0	0	0	0	0	0	0
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
50,551	51,562	52,594	53,645	54,718	55,813	56,929	58,068	59,229	60,414	61,622
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
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
50,988	52,008	53,048	54,109	55,191	56,295	57,421	58,570	59,741	60,936	62,155
0	0	0	0	0	0	0	0	0	0	0
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

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
0	0	0	0	0	0	0	0	0	0	0
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
258,555	263,726	269,000	274,380	279,868	285,465	291,175	296,998	302,938	308,997	315,177
251,125	256,148	261,271	266,496	271,826	277,262	282,808	288,464	294,233	300,118	306,120
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
0	0	0	0	0	0	0	0	0	0	0
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
263,013	268,273	273,638	279,111	284,693	290,387	296,195	302,119	308,161	314,325	320,611
255,583	260,695	265,909	271,227	276,651	282,184	287,828	293,584	299,456	305,445	311,554
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
0	0	0	0	0	0	0	0	0	0	0
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
294,218	300,102	306,104	312,226	318,471	324,840	331,337	337,964	344,723	351,617	358,650
283,816	289,492	295,282	301,188	307,212	313,356	319,623	326,015	332,536	339,186	345,970
1,401,248	1,429,273	1,457,859	1,487,016	1,516,756	1,547,091	1,578,033	1,609,594	1,641,786	1,674,622	1,708,114
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
209,519	213,709	217,983	222,343	226,790	231,325	235,952	240,671	245,484	250,394	255,402
1,907,956	1,946,116	1,985,038	2,024,739	2,065,233	2,106,538	2,148,669	2,191,642	2,235,475	2,280,185	2,325,788
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
222,892	227,350	231,897	236,535	241,266	246,091	251,013	256,033	261,154	266,377	271,704

2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
931	1,008	1,085	1,163	1,241	1,320	1,399	1,479	1,560	1,642	1,724	1,807	1,891
1,539	1,667	1,794	1,922	2,052	2,182	2,313	2,446	2,579	2,714	2,850	2,988	3,126
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
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
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
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
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
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
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
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
553	598	643	689	734	780	825	871	918	964	1,011	1,057	1,104
772	836	899	962	1,026	1,089	1,153	1,217	1,282	1,347	1,412	1,477	1,543
4,487	4,862	5,229	5,592	5,956	6,320	6,686	7,053	7,421	7,790	8,160	8,531	8,903
4,458	4,830	5,194	5,555	5,916	6,279	6,642	7,007	7,372	7,739	8,106	8,475	8,845
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
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
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
2,207	2,394	2,579	2,762	2,948	3,136	3,325	3,517	3,710	3,906	4,104	4,304	4,506
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
266	246	231	221	211	200	190	180	169	0	0	0	0
293	272	252	237	226	216	205	195	184	174	0	0	0
321	300	279	259	243	232	221	210	200	189	178	0	0
350	329	307	286	265	249	238	227	216	205	194	182	0
380	358	337	315	293	272	255	244	232	221	210	198	187
412	390	367	345	323	301	279	262	250	238	227	215	203
445	422	399	377	354	331	308	286	268	256	244	232	220
482	456	433	409	386	363	339	316	293	275	263	250	238
522	494	468	444	420	396	372	348	324	300	282	269	257

567	535	506	479	455	430	406	381	357	332	307	289	276
360	581	548	519	491	466	441	416	391	365	340	315	296
	369	595	562	532	504	478	452	426	400	375	349	323
		378	610	576	545	516	490	463	437	410	384	358
			387	625	591	559	529	502	475	448	421	394
				397	641	605	573	542	514	487	459	431
					407	657	621	587	556	527	499	470
						417	673	636	602	570	540	511
							428	690	652	617	584	554
								438	708	668	632	599
									449	725	685	648
										461	743	702
											472	762
												484

1,361	1,276	1,191	1,128	1,089	1,049	1,010	970	931	891	851	812	772
1,483	1,395	1,308	1,221	1,157	1,116	1,075	1,035	994	954	913	873	832
1,610	1,520	1,430	1,341	1,251	1,185	1,144	1,102	1,061	1,019	978	936	895
1,742	1,650	1,558	1,466	1,374	1,282	1,215	1,173	1,130	1,087	1,045	1,002	960
1,879	1,785	1,691	1,597	1,503	1,409	1,314	1,245	1,202	1,158	1,115	1,071	1,027
2,023	1,926	1,830	1,733	1,637	1,540	1,444	1,347	1,277	1,232	1,187	1,142	1,098
2,176	2,073	1,975	1,876	1,777	1,678	1,579	1,480	1,381	1,309	1,263	1,217	1,171
2,344	2,231	2,125	2,024	1,922	1,821	1,720	1,618	1,517	1,415	1,341	1,294	1,247
2,529	2,403	2,286	2,178	2,075	1,971	1,867	1,763	1,659	1,555	1,451	1,375	1,327
2,733	2,592	2,463	2,344	2,233	2,126	2,020	1,913	1,807	1,700	1,594	1,487	1,409
1,919	2,801	2,657	2,524	2,402	2,289	2,180	2,070	1,961	1,852	1,743	1,634	1,524
	1,967	2,871	2,723	2,588	2,462	2,346	2,234	2,122	2,010	1,898	1,786	1,674
		2,016	2,943	2,792	2,652	2,524	2,405	2,290	2,175	2,060	1,946	1,831

2,066	3,017	2,861	2,719	2,587	2,465	2,347	2,230	2,112	1,994
	2,118	3,092	2,933	2,787	2,651	2,526	2,406	2,285	2,165
		2,171	3,170	3,006	2,856	2,718	2,589	2,466	2,342
			2,225	3,249	3,081	2,928	2,786	2,654	2,528
				2,281	3,330	3,158	3,001	2,855	2,721
					2,338	3,413	3,237	3,076	2,927
						2,396	3,499	3,318	3,153
							2,456	3,586	3,401
								2,518	3,676
									2,580

238	225	211	203	198	193	189	184	179	175	170	165	161
257	244	230	217	208	203	198	193	189	184	179	174	170
278	264	250	236	222	213	208	203	198	193	188	184	179
299	285	270	256	242	228	218	213	208	203	198	193	188
321	306	292	277	263	248	233	224	218	213	208	203	198
344	329	314	299	284	269	254	239	229	224	219	213	208
369	353	337	322	307	291	276	261	245	235	230	224	219
396	378	361	346	330	314	298	283	267	251	241	235	230
426	406	387	370	354	338	322	306	290	274	258	247	241
460	437	416	397	380	363	347	330	314	297	281	264	253
360	471	447	426	407	389	372	355	338	321	305	288	271
	369	483	459	437	417	399	381	364	347	329	312	295
		378	495	470	448	427	409	391	373	355	338	320
			387	507	482	459	438	419	401	383	364	346
				397	520	494	470	449	429	411	392	373
					407	533	506	482	460	440	421	402
						417	546	519	494	472	451	432

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1,768	1,667	1,567	1,498	1,460	1,422	1,384	1,346	1,309	1,271	1,233	1,195	1,158
1,916	1,812	1,709	1,606	1,535	1,496	1,458	1,419	1,380	1,341	1,303	1,264	1,225
2,069	1,963	1,858	1,752	1,646	1,573	1,534	1,494	1,454	1,415	1,375	1,335	1,296
2,229	2,121	2,013	1,904	1,796	1,687	1,613	1,572	1,531	1,491	1,450	1,409	1,369
2,396	2,285	2,174	2,063	1,952	1,841	1,729	1,653	1,611	1,570	1,528	1,486	1,445
2,570	2,456	2,342	2,228	2,114	2,001	1,887	1,773	1,694	1,652	1,609	1,566	1,523
2,756	2,634	2,518	2,401	2,284	2,167	2,051	1,934	1,817	1,737	1,693	1,649	1,605
2,962	2,825	2,700	2,581	2,461	2,341	2,221	2,102	1,982	1,862	1,780	1,735	1,690
3,189	3,036	2,896	2,768	2,645	2,522	2,400	2,277	2,154	2,032	1,909	1,825	1,779
3,442	3,269	3,112	2,968	2,837	2,711	2,585	2,460	2,334	2,208	2,082	1,957	1,870
2,638	3,528	3,350	3,189	3,042	2,908	2,779	2,650	2,521	2,392	2,263	2,134	2,006
	2,704	3,616	3,434	3,269	3,119	2,981	2,848	2,716	2,584	2,452	2,320	2,188
		2,772	3,706	3,520	3,351	3,196	3,055	2,920	2,784	2,649	2,513	2,378
			2,841	3,799	3,608	3,435	3,276	3,131	2,993	2,854	2,715	2,576
				2,912	3,894	3,698	3,521	3,358	3,210	3,067	2,925	2,783
					2,985	3,991	3,791	3,609	3,442	3,290	3,144	2,998
						3,060	4,091	3,886	3,699	3,528	3,372	3,223
							3,136	4,193	3,983	3,791	3,617	3,456
								3,214	4,298	4,082	3,886	3,707
									3,295	4,406	4,184	3,983
										3,377	4,516	4,289

83 77 73 71 68 66 63 61 58 56 53 51 48
90 85 79 75 72 70 67 65 62 60 57 55 52
99 93 87 81 77 74 71 69 66 64 61 59 56
107 101 95 89 83 79 76 73 71 68 65 63 60
116 110 104 97 91 85 81 78 75 72 70 67 64
125 119 112 106 100 93 87 83 80 77 74 71 69
135 128 122 115 109 102 96 89 85 82 79 76 73
145 138 131 125 118 111 105 98 92 87 84 81 78
157 149 142 135 128 121 114 107 101 94 89 86 83
171 161 153 145 138 131 124 117 110 103 96 91 88
120 175 165 157 149 141 134 127 120 113 106 99 93
123 123 179 169 161 152 145 138 130 123 116 108 101
184 184 174 174 165 156 149 141 134 126 119 111 111
129 129 188 174 178 169 160 160 152 145 137 129 122
132 132 193 178 178 169 169 160 152 145 137 129 122
136 136 193 178 178 169 169 160 152 145 137 129 122
139 139 198 187 187 177 177 164 164 156 148 140 133
143 143 203 203 203 192 192 182 182 172 172 164 156
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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
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
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
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
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
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
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
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
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
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
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
	2,711	3,958	3,754	3,567	3,394	3,234	3,080	2,925	2,771	2,617	2,462	2,308
		2,779	4,057	3,848	3,656	3,479	3,315	3,157	2,998	2,840	2,682	2,524
			2,848	4,159	3,944	3,748	3,566	3,398	3,236	3,073	2,911	2,749
				2,920	4,263	4,043	3,841	3,655	3,483	3,316	3,150	2,984
					2,993	4,369	4,144	3,937	3,746	3,570	3,399	3,229
						3,067	4,478	4,248	4,036	3,840	3,659	3,484
156	152	147	142	138	133	128	124	119	114	110	105	101
165	160	155	151	146	141	136	132	127	122	117	113	108
174	169	164	159	154	149	145	140	135	130	125	120	115
183	178	173	168	163	158	153	148	143	138	133	128	123
193	188	183	178	172	167	162	157	152	147	142	137	131
203	198	192	187	182	177	171	166	161	156	150	145	140
213	208	203	197	192	187	181	176	170	165	160	154	149
224	219	213	208	202	197	191	186	180	175	169	164	158
235	230	224	219	213	207	202	196	190	185	179	173	168
247	241	236	230	224	218	212	207	201	195	189	183	178
259	253	247	241	236	230	224	218	212	206	200	194	188
277	266	260	254	248	241	235	229	223	217	211	205	199
302	284	272	266	260	254	247	241	235	229	223	216	210
328	310	292	279	273	266	260	254	247	241	234	228	222
355	336	317	299	286	280	273	267	260	253	247	240	234
383	364	345	325	306	293	287	280	273	266	260	253	246
412	392	373	353	334	314	301	294	287	280	273	266	259

442	422	402	382	362	342	322	308	301	294	287	280	273
474	453	433	412	392	371	350	330	316	309	301	294	287
508	486	465	444	423	401	380	359	338	324	316	309	302
546	521	498	476	455	433	411	390	368	347	332	324	317
587	559	534	511	488	466	444	422	400	377	355	340	332
633	602	573	547	523	501	478	455	432	410	387	364	349
496	649	617	588	561	536	513	490	466	443	420	396	373
	508	665	632	602	575	550	526	502	478	454	430	406
		521	682	648	617	589	564	539	515	490	466	441
			534	699	664	633	604	578	553	527	502	477
				547	717	681	648	619	592	566	541	515
					561	735	698	665	634	607	580	554
						575	753	715	681	650	622	595
1,120	1,082	1,044	1,007	969	931	893	856	818	780	742	704	667
1,187	1,148	1,109	1,070	1,032	993	954	916	877	838	800	761	722
1,256	1,216	1,177	1,137	1,097	1,058	1,018	978	939	899	859	819	780
1,328	1,287	1,247	1,206	1,165	1,125	1,084	1,043	1,003	962	921	881	840
1,403	1,361	1,320	1,278	1,236	1,194	1,153	1,111	1,069	1,028	986	944	903
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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

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
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
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
	3,728	4,984	4,734	4,507	4,299	4,109	3,927	3,744	3,562	3,380	3,198	3,016
		3,821	5,109	4,852	4,619	4,406	4,211	4,025	3,838	3,651	3,465	3,278
		3,917	5,237	4,974	4,735	4,517	4,317	4,125	3,934	3,743	3,551	3,351
			4,014	5,368	4,629	4,425	4,228	4,032	3,836	3,649	3,452	3,255
				4,115	4,974	4,745	4,535	4,334	4,133	3,932	3,731	3,530
253	244	235	226	218	209	200	191	182	173	165	156	147
268	259	250	241	232	223	214	205	196	187	178	169	160
284	275	266	256	247	238	229	219	210	201	191	182	173
301	291	282	272	263	253	244	234	225	215	206	196	187
318	308	299	289	279	269	260	250	240	230	221	211	201
336	326	316	306	296	286	276	266	256	246	236	226	216
355	344	334	324	314	303	293	283	273	263	252	242	232
374	364	353	343	332	322	311	301	290	280	269	259	248
394	383	373	362	351	340	330	319	308	297	287	276	265
415	404	393	382	371	360	349	338	327	316	305	294	283
437	425	414	403	391	380	369	358	346	335	324	312	301
459	448	436	424	413	401	390	378	367	355	343	332	320
493	471	459	447	435	423	411	399	388	376	364	352	340
539	505	482	470	458	446	434	422	409	397	385	373	361
587	552	518	495	482	470	457	445	432	420	407	395	382
637	602	566	531	507	494	481	469	456	443	430	417	405
689	653	617	580	544	520	506	493	480	467	454	441	428
743	706	669	632	595	558	533	519	506	492	479	465	452
800	762	724	686	648	610	572	546	532	518	505	491	477
860	820	781	742	703	664	625	586	559	545	531	517	503
926	881	841	801	761	721	681	641	601	573	559	545	530
1,000	949	903	862	821	780	739	698	657	616	588	573	558
1,083	1,025	973	926	883	841	799	757	715	673	631	603	587
827	1,110	1,050	997	949	905	862	819	776	733	690	647	618
	847	1,138	1,077	1,022	973	928	884	840	795	751	707	663

47	868		1,166	1,104	1,048	997	951	906	861	815	770	725
51		40	890	1,195	1,131	1,074	1,022	975	928	882	836	789
54		44		912	1,225	1,160	1,101	1,047	999	952	904	857
58		47			935	1,256	1,189	1,128	1,074	1,024	975	927
62		51				959	1,287	1,218	1,156	1,100	1,050	1,000
66		54		38	0	0	0	0	0	0	0	0
70		58		41	39	0	0	0	0	0	0	0
75		47		45	42	40	0	0	0	0	0	0
80		51		48	46	43	41	0	0	0	0	0
84		54		52	49	47	44	42	0	0	0	0
90		58		56	53	51	48	45	43	0	0	0
95		63		60	57	55	52	49	47	44	0	0
102		67		64	61	59	56	53	50	48	45	0
112		71		68	66	63	60	57	55	52	49	46
123		76		73	70	67	64	62	59	56	53	50
134		81		78	75	72	69	66	63	60	57	54
145		86		83	80	77	74	71	68	65	62	59
157		91		88	85	82	79	76	72	69	66	63
169		96		93	90	87	84	81	77	74	71	68
182		102		99	96	92	89	86	83	79	76	73
197		107		105	101	98	95	91	88	85	81	78
212		118		113	107	104	100	97	94	90	87	83
230		129		110	116	110	106	103	99	96	92	89
165		140		124	127	119	113	109	105	102	98	95
		152		135	127	122	113	109	105	102	98	95
		165		148	139	130	122	115	112	108	104	101
		178		160	151	142	133	125	118	115	111	107
		191		173	164	155	146	137	128	121	117	114
		206		187	177	168	159	150	140	131	124	120
		223		201	191	182	172	163	153	144	134	127
		242		217	206	196	186	177	167	157	147	138
		174		235	222	211	201	191	181	171	161	151
				254	240	228	217	206	196	186	175	165
				182	261	246	234	222	211	201	190	180
					187	267	253	239	228	217	206	195

46	43	41	0	0	192	274	259	245	233	222	211
49	47	44	42	0	0	0	0	0	0	0	0
53	51	48	46	43	0	0	0	0	0	0	0
57	55	52	49	47	44	0	0	0	0	0	0
61	59	56	53	51	48	0	0	0	0	0	0
66	63	60	57	55	52	46	0	0	0	0	0
70	67	65	62	59	56	50	47	0	0	0	0
75	72	69	66	63	60	54	52	49	0	0	0
80	77	74	71	68	65	59	56	53	50	0	0
85	82	79	76	73	70	63	60	57	54	51	0
90	87	84	81	78	74	68	65	62	59	55	52
96	93	89	86	83	80	73	70	67	63	60	57
104	98	95	92	88	85	78	75	72	68	65	62
114	106	101	97	94	90	84	80	77	73	70	67
125	117	109	103	100	96	89	86	82	79	75	72
136	128	120	112	106	102	95	91	88	84	81	77
148	139	131	123	114	108	101	97	94	90	86	83
160	151	143	134	126	117	107	104	100	96	92	89
172	164	155	146	138	129	114	110	106	102	98	95
186	177	168	159	150	141	123	117	113	109	105	101
201	190	181	172	163	154	135	126	120	116	112	107
217	206	195	186	176	167	148	139	129	123	118	114
235	222	211	200	190	181	161	152	142	133	126	121
165	241	228	216	205	195	175	165	156	146	136	129
	169	247	234	221	210	190	180	170	160	149	139
		174	253	239	227	205	195	184	174	164	153
			178	259	245	221	210	199	189	178	168
				182	266	238	226	215	204	194	183
					187	258	244	232	221	210	198
						279	264	250	238	226	215

266	259	252	245	238	231	224	217	209	202	195	188	181
280	273	265	258	251	244	236	229	222	215	207	200	193
294	287	279	272	265	257	250	242	235	227	220	213	205
309	302	294	286	279	271	264	256	248	241	233	226	218
325	317	309	301	293	286	278	270	262	255	247	239	231
341	333	325	317	309	301	293	285	277	269	261	253	245
357	349	341	333	325	317	308	300	292	284	276	267	259
382	366	358	350	341	333	324	316	308	299	291	283	274
417	392	376	367	358	350	341	333	324	315	307	298	290
452	427	402	385	376	367	358	350	341	332	323	314	306
489	463	438	412	395	385	376	367	358	349	340	331	322
528	501	475	449	422	404	395	386	377	367	358	349	340
568	541	514	487	460	433	414	405	396	386	377	367	358
629	0	0	0	0	0	0	0	0	0	0	0	0
683	645	0	0	0	0	0	0	0	0	0	0	0
740	700	661	0	0	0	0	0	0	0	0	0	0
799	759	718	677	0	0	0	0	0	0	0	0	0
861	819	778	736	694	0	0	0	0	0	0	0	0
925	882	840	797	754	712	0	0	0	0	0	0	0
992	948	905	861	817	773	729	0	0	0	0	0	0
1,062	1,017	972	927	882	837	792	748	0	0	0	0	0
1,134	1,088	1,042	996	950	904	858	812	766	0	0	0	0
1,210	1,163	1,116	1,068	1,021	974	927	880	833	785	0	0	0
1,289	1,240	1,192	1,143	1,095	1,047	998	950	902	853	805	0	0
1,370	1,321	1,271	1,222	1,172	1,123	1,073	1,023	974	924	875	825	0
1,455	1,405	1,354	1,303	1,252	1,201	1,151	1,100	1,049	998	947	897	846
1,544	1,492	1,440	1,388	1,336	1,283	1,231	1,179	1,127	1,075	1,023	971	919
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
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
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
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
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
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
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

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
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
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
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
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
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
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
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
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
0	0	0	0	0	0	0	0	0	0	0	0	0
151	0	0	0	0	0	0	0	0	0	0	0	0
164	154	0	0	0	0	0	0	0	0	0	0	0
177	168	158	0	0	0	0	0	0	0	0	0	0
191	182	172	162	0	0	0	0	0	0	0	0	0
206	196	186	176	166	0	0	0	0	0	0	0	0
222	211	201	191	181	170	0	0	0	0	0	0	0
238	227	217	206	196	185	175	0	0	0	0	0	0
254	244	233	222	211	201	190	179	0	0	0	0	0
272	261	250	239	228	217	206	195	183	0	0	0	0
290	278	267	256	245	233	222	211	199	188	0	0	0
309	297	285	274	262	251	239	228	216	204	193	0	0
328	316	304	293	281	269	257	245	233	221	209	198	0
349	336	324	312	300	288	276	263	251	239	227	215	203
370	357	345	332	320	307	295	282	270	257	245	233	220
392	379	366	353	341	328	315	302	290	277	264	251	238
415	402	388	375	362	349	336	323	310	297	284	271	257
438	425	412	398	385	371	358	344	331	318	304	291	277
463	449	436	422	408	394	381	367	353	339	326	312	298
489	475	461	447	432	418	404	390	376	362	348	334	320
516	501	487	472	458	443	429	414	400	385	371	356	342
543	529	514	499	484	469	454	440	425	410	395	380	365
572	557	542	527	511	496	481	466	451	435	420	405	390
602	586	571	555	540	524	509	493	477	462	446	431	415
633	617	601	585	569	553	537	521	505	489	473	457	441

680	649	632	616	600	583	567	551	534	518	502	485	469
743	697	665	648	632	615	598	581	564	548	531	514	497
809	762	714	682	664	647	630	613	596	579	561	544	527
878	829	781	732	699	681	663	646	628	611	593	575	558
950	900	850	800	750	716	698	680	662	644	626	608	590
0	0	0	0	0	0	0	0	0	0	0	0	0
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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
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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	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
47	0	0	0	0	0	0	0	0	0	0	0	0
51	48	0	0	0	0	0	0	0	0	0	0	0
56	53	50	0	0	0	0	0	0	0	0	0	0
60	57	54	51	0	0	0	0	0	0	0	0	0
65	62	59	55	52	0	0	0	0	0	0	0	0
70	66	63	60	57	54	0	0	0	0	0	0	0
75	71	68	65	61	58	55	0	0	0	0	0	0
80	77	73	70	66	63	60	56	0	0	0	0	0
86	82	79	75	72	68	65	61	58	0	0	0	0
91	88	84	81	77	73	70	66	63	59	0	0	0
97	93	90	86	83	79	75	72	68	64	61	0	0
103	100	96	92	88	85	81	77	73	70	66	62	0
110	106	102	98	94	91	87	83	79	75	71	67	64
116	113	109	105	101	97	93	89	85	81	77	73	69
123	119	115	111	107	103	99	95	91	87	83	79	75
131	126	122	118	114	110	106	102	98	93	89	85	81
141	134	130	125	121	117	113	108	104	100	96	91	87
155	145	137	133	129	124	120	115	111	107	102	98	94
169	159	148	141	136	132	127	123	118	114	109	105	101
184	173	163	152	144	140	135	130	126	121	117	112	108

\$'000

Station	Unit	Capacity	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
BR	BR1	101	0	0	0	0	0	441	454	590	616	785
BR	BR2	167	0	0	0	0	0	729	751	975	1,018	1,299
BR	BR3	416	0	0	0	0	0	1,816	1,870	2,430	2,536	3,235
CR	CR4	155	258	840	1,124	1,095	1,216	1,960	1,949	1,644	1,927	2,572
CR	CR5	168	279	910	1,219	1,187	1,318	2,124	2,112	1,782	2,089	2,788
CR	CR6	240	399	1,300	1,741	1,696	1,882	5,221	5,152	4,566	4,899	5,799
GH	GH1	475	0	0	0	0	0	5,620	5,988	6,566	7,371	8,085
GH	GH2	484	0	0	0	0	0	5,727	6,101	6,691	7,510	8,238
GH	GH3	480	0	0	0	0	0	5,680	6,051	6,635	7,448	8,170
GH	GH4	479	0	0	0	0	0	5,668	6,038	6,622	7,433	8,153
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
TC	TC2	549	0	0	0	0	0	2,817	2,961	3,114	3,176	3,240
TY	TY3	71										
	BR Landfill Phase 2 Savings		0	0	0	0	0	0	0	828	908	1,960
	BR Landfill Phase 3 Savings		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
	CR Landfill Capital Savings		936	3,049	4,083	3,979	4,416	4,938	4,772	3,579	4,464	6,617
	CR Landfill O&M Savings		0	0	0	0	0	2,181	2,307	2,393	2,537	2,726
	CR6 Stator Rewind Savings		0	0	0	0	0	2,187	2,135	2,020	1,914	1,816
	GH Landfill Capital Savings		0	0	0	0	0	61	188	1,083	2,805	4,044
	GH Landfill O&M Savings		0	0	0	0	0	22,633	23,991	25,431	26,957	28,601
	TC Landfill Capital Savings		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

2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
787	789	1,035	1,054	1,357	1,337	1,319	1,301	1,285	1,267	1,122	410	385
1,301	1,305	1,711	1,743	2,245	2,211	2,180	2,151	2,124	2,095	1,855	678	636
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
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
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
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
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
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
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
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
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
3,304	3,371	3,438	3,507	3,577	3,648	3,721	3,796	7,687	11,809	11,888	17,709	17,206
1,870	1,782	1,697	1,613	1,531	1,451	1,372	1,294	1,215	1,123	156	138	120
0	0	1,638	1,745	3,767	3,594	3,426	3,261	3,101	2,943	2,789	2,638	2,487
3,461	3,564	3,671	3,781	3,895	4,012	4,132	4,256	4,384	4,515	4,651	1,345	1,123
6,353	4,493	4,170	4,023	1,844	2,496	2,513	2,483	2,455	2,429	1,631	5,230	5,335
2,944	3,121	3,308	3,507	3,717	3,925	4,061	4,305	4,563	4,837	5,128	901	850
1,719	1,621	1,524	1,427	1,329	1,232	1,158	1,106	1,055	1,004	952	15,709	15,118
4,399	4,388	4,387	6,672	11,397	16,206	18,397	18,341	18,358	17,892	16,784	56,393	59,776
30,979	32,838	34,808	36,897	39,110	41,457	43,944	44,668	47,348	50,189	53,201	23,088	22,094
0	0	0	0	0	0	0	0	6,478	13,344	13,344	6,975	7,115
5,610	5,722	5,836	5,953	6,072	6,194	6,318	6,444	6,573	6,704	6,838	6,975	7,115

	2034	2035	2036	2037	2038	2039	2040
	360	331	54	46	38	30	23
	595	547	89	76	63	50	39
	1,482	1,363	222	189	157	124	97
	1,748	1,719	1,692	1,708	1,727	1,747	1,771
	1,895	1,864	1,834	1,851	1,872	1,894	1,919
	2,777	2,662	2,620	2,645	2,674	2,705	2,742
	19,372	20,254	21,186	21,692	2,492	1,854	1,700
	19,739	20,637	21,587	22,103	2,539	1,889	1,733
	19,576	20,467	21,409	21,921	2,518	1,874	1,718
	19,535	20,424	21,364	21,875	2,513	1,870	1,715
	11,666	11,343	11,031	10,731	10,442	10,162	9,886
	16,723	16,259	15,812	15,382	14,967	14,567	14,170
	101	83	64	46	28	9	0
	2,336	2,158	301	265	230	194	159
	908	695	485	430	384	338	303
	5,441	5,550	5,661	5,774	5,890	6,008	6,128
	70	0	0	0	0	0	0
	14,860	14,617	14,352	12,126	9,906	7,329	6,705
	63,363	67,165	71,194	75,466	155	158	161
	21,132	20,199	19,293	18,412	17,554	16,717	15,883
	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
BR	BR1	101	0	0	0	553	743	703	668	635	606	577
BR	BR2	167	0	0	0	915	1,228	1,163	1,104	1,050	1,002	954
BR	BR3	416	0	0	0	2,279	3,060	2,897	2,749	2,616	2,496	2,377
CR	CR4	155	0	0	0	980	1,582	1,494	1,413	1,339	1,269	1,201
CR	CR5	168	0	0	0	1,062	1,715	1,619	1,532	1,451	1,376	1,302
CR	CR6	240	0	0	0	1,518	2,449	2,313	2,188	2,073	1,966	1,860
GH	GH1	475	0	0	0	1,462	1,954	1,856	1,767	1,686	1,611	1,540
GH	GH2	484	0	0	0	1,489	1,991	1,891	1,800	1,718	1,642	1,569
GH	GH3	480	0	0	0	1,477	1,975	1,876	1,786	1,703	1,628	1,556
GH	GH4	479	0	0	0	1,474	1,971	1,872	1,782	1,700	1,625	1,553
GR	GR3	68	0	0	0	586	837	792	751	713	679	645
GR	GR4	95	0	0	0	819	1,169	1,106	1,049	996	948	901
MC	MC1	303	0	0	0	1,215	1,774	1,682	1,598	1,521	1,449	1,380
MC	MC2	301	0	0	0	1,207	1,762	1,671	1,588	1,511	1,440	1,371
MC	MC3	391	0	0	0	1,568	2,289	2,171	2,063	1,963	1,870	1,781
MC	MC4	477	0	0	0	1,913	2,792	2,648	2,516	2,394	2,281	2,172
TC	TC1	383	0	0	0	770	1,008	958	912	871	833	797
TC	TC2	549	0	0	0	1,104	1,445	1,373	1,307	1,248	1,194	1,142
TY	TY3	71	0	0	0	586	837	792	751	713	679	645
	BRWATER		0	0	0	3,747	5,032	4,763	4,521	4,302	4,104	3,908
	CRWATER		0	0	0	3,560	5,746	5,427	5,134	4,863	4,611	4,362
	MCWATER		0	0	0	5,902	8,617	8,173	7,765	7,389	7,040	6,704
	TCWATER		0	0	0	1,874	2,453	2,331	2,220	2,119	2,026	1,938
	GHWATER		0	0	0	5,902	7,892	7,495	7,135	6,806	6,505	6,217
	GRWATER		0	0	0	1,405	2,006	1,898	1,799	1,709	1,627	1,546

\$000

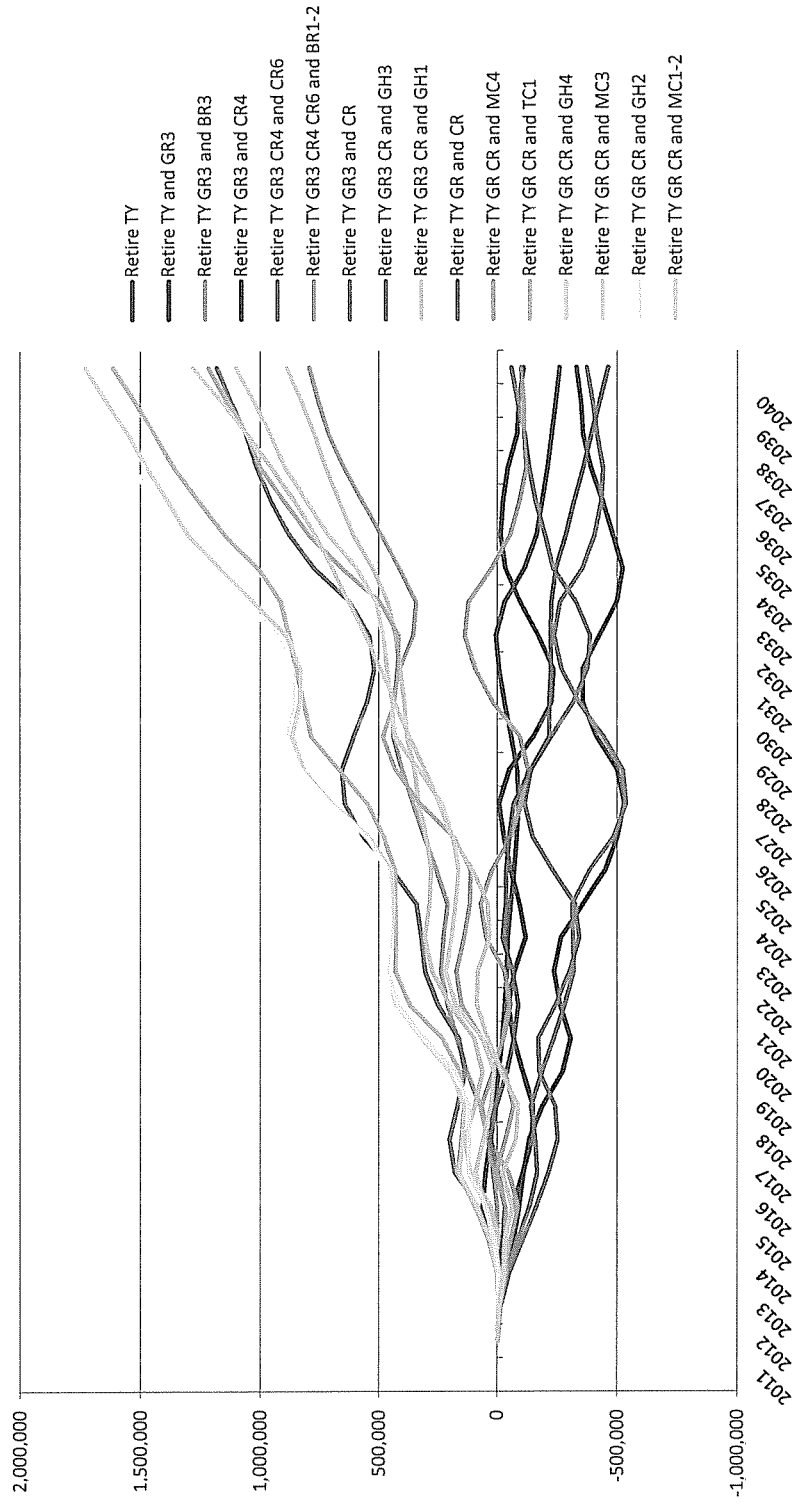
2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
548	519	491	462	433	413	403	393	382	372	361	351	340
907	859	811	764	716	684	666	649	632	615	597	580	563
2,258	2,140	2,021	1,902	1,784	1,703	1,660	1,617	1,574	1,531	1,488	1,445	1,402
1,132	1,064	996	927	859	806	770	735	699	663	627	591	0
1,227	1,153	1,079	1,005	931	874	835	796	757	718	679	640	0
1,754	1,647	1,541	1,435	1,329	1,249	1,193	1,137	1,082	1,026	970	915	0
1,468	1,397	1,325	1,254	1,183	1,111	1,062	1,035	1,008	982	955	928	901
1,496	1,423	1,350	1,278	1,205	1,132	1,082	1,055	1,028	1,000	973	946	918
1,484	1,411	1,339	1,267	1,195	1,123	1,073	1,046	1,019	992	965	938	911
1,481	1,409	1,337	1,265	1,193	1,121	1,071	1,044	1,017	990	963	936	909
611	577	544	510	476	452	438	423	409	395	380	366	352
854	807	759	712	665	631	611	591	571	551	531	511	491
1,311	1,242	1,173	1,103	1,034	965	915	882	850	818	786	754	722
1,302	1,234	1,165	1,096	1,027	959	908	877	845	813	781	749	717
1,692	1,602	1,513	1,424	1,335	1,245	1,180	1,139	1,097	1,056	1,015	973	932
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
760	724	688	652	616	579	555	542	529	517	504	491	479
1,090	1,038	986	934	882	830	795	777	759	741	723	704	686
611	577	544	510	476	452	438	423	409	395	380	366	352
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
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
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
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
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
1,465	1,384	1,303	1,222	1,141	1,083	1,049	1,015	980	946	912	877	843

2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
330	320	309	299	288	278	267	257	247	236	226	215	205
546	528	511	494	477	459	442	425	408	390	373	356	339
1,359	1,316	1,273	1,230	1,187	1,144	1,101	1,058	1,016	973	930	887	844
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	0	0	0	0	0	0	0	0	0	0	0
875	848	821	794	767	741	714	687	660	634	607	580	553
891	864	837	809	782	755	727	700	673	646	618	591	564
884	857	830	803	776	748	721	694	667	640	613	586	559
882	855	828	801	774	747	720	693	666	639	612	585	558
337	323	309	294	280	266	251	237	0	0	0	0	0
471	451	431	411	391	371	351	331	0	0	0	0	0
690	658	626	594	562	530	0	0	0	0	0	0	0
686	654	622	590	558	526	0	0	0	0	0	0	0
891	849	808	766	725	684	0	0	0	0	0	0	0
1,086	1,036	986	935	885	834	0	0	0	0	0	0	0
466	453	441	428	415	403	390	377	364	352	339	326	314
668	650	632	613	595	577	559	541	522	504	486	468	450
337	323	309	294	280	266	251	237	0	0	0	0	0
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
0	0	0	0	0	0	0	0	0	0	0	0	0
3,353	3,197	3,041	2,886	2,730	2,574	0	0	0	0	0	0	0
1,134	1,103	1,072	1,041	1,010	979	949	918	887	856	825	794	763
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
809	774	740	706	671	637	603	568	0	0	0	0	0

	Delta NPVRR \$M
	Install Controls / (Retire)
Tyrone 3	(60)
Brown 3	(76)
Cane Run 6	270
Brown 1-2	(245)
Cane Run 4-5	(159)
Green River 3-4	(27)
Ghent 1-4	(243)
Trimble County 1	427
Mill Creek 3-4	300
Mill Creek 1-2	(132)

Cumulative Difference in Revenue Requirements

Install Controls vs. Retire/Replace Capacity



Retirement Savings (Deltas)	Capital	O&M	Total
Retire TY	-22	-3	-26
Retire TY and GR3	-13	-50	-62
Retire TY GR3 and BR3	-98	-174	-272
Retire TY GR3 and CR4	-46	-140	-186
Retire TY GR3 CR4 and CR6	-84	-118	-202
Retire TY GR3 CR4 CR6 and BR1-2	-63	-129	-192
Retire TY GR3 and CR	-50	-149	-199
Retire TY GR3 CR and GH3	-203	-145	-348
Retire TY GR3 CR and GH1	-201	-210	-411
Retire TY GR and CR	-18	-100	-118
Retire TY GR CR and MC4	-105	-201	-306
Retire TY GR CR and TC1	-68	-203	-271
Retire TY GR CR and GH4	-203	-141	-343
Retire TY GR CR and MC3	-86	-201	-287
Retire TY GR CR and GH2	-205	-156	-361
Retire TY GR CR and MC1-2	-133	-325	-457

Revenue Requirement Deltas	Prod Cost	Capital	Total	Check
Retire TY	9	-69	-60	0
Retire TY and GR3	-17	-59	-76	0
Retire TY GR3 and BR3	478	-208	270	0
Retire TY GR3 and CR4	106	-350	-245	0
Retire TY GR3 CR4 and CR6	337	-496	-159	0
Retire TY GR3 CR4 CR6 and BR1-2	268	-296	-27	0
Retire TY GR3 and CR	127	-370	-243	0
Retire TY GR3 CR and GH3	814	-387	427	0
Retire TY GR3 CR and GH1	674	-373	300	0
Retire TY GR and CR	-46	-85	-132	0
Retire TY GR CR and MC4	843	-522	321	0
Retire TY GR CR and TC1	734	-185	549	0
Retire TY GR CR and GH4	971	-376	595	0
Retire TY GR CR and MC3	639	-316	324	0
Retire TY GR CR and GH2	967	-365	602	0
Retire TY GR CR and MC1-2	1,114	-799	315	0

1 2 3 4 5 6 7 8 9

Retire:

<u>No</u>	<u>TY</u>	<u>TY GR3</u>	<u>TY GR3 BR3</u>	<u>TY GR3 CR4</u>	<u>TY GR3 CR4</u>	<u>TY GR3 CR4</u>	<u>TY GR3 CR4</u>	<u>TY GR3 CR</u>	<u>TY GR3 CR</u>	<u>TY GR3 CR</u>
<u>Retirements</u>	<u>TY</u>	<u>TY GR3</u>	<u>TY GR3 BR3</u>	<u>TY GR3 CR4</u>	<u>CR6</u>	<u>CR6</u>	<u>CR6 BR1-2</u>	<u>GH3</u>	<u>GH1</u>	<u>GH1</u>
2010										
2011										
2012										
2013										
2014										
2015										
2016	3x1C(1)	2x1C(1)	3x1C(1)	3x1C(1)	3x1C(1)	3x1C(1)	3x1C(1)	3x1C(1) 2x1C(1)	3x1C(2)	
2017	3x1C(1)									
2018							3x1C(1)			
2019								3x1C(1)		
2020		2x1C(1)	3x1C(1)	3x1C(1)	3x1C(1)			3x1C(1)		
2021										
2022				2x1C(1)						3x1C(1)
2023										
2024	3x1C(1)	3x1C(1)					3x1C(1)			
2025		3x1C(1)						3x1C(1)		
2026			3x1C(1)	3x1C(1)	3x1C(1)			3x1C(1)		
2027										3x1C(1)
2028										
2029										
2030	2x1C(1)	3x1C(1)								
2031		SCCT(1)					3x1C(1)	2x1C(1)		
2032				SCCT(1)						
2033		3x1C(1)	3x1C(1)		3x1C(1)			3x1C(1)		
2034				3x1C(1)						
2035	2x1C(1)									2x1C(1)
2036	2x1C(1)							2x1C(1)		
2037					SCCT(1)					

2038										
2039	SCCT(1)					SCCT(1)				
2040		SCCT(1)	SCCT(1)	SCCT(1)	SCCT(1)		SCCT(1)	SCCT(1)		
30 Yr PVRR (\$B)	23.6	23.7	23.8	24.7	24.2	24.8	25.5	25.3	26.6	26.6

10 11 12 13 14 15 16

TY GR CR TY GR CR TY GR CR TY GR CR TY GR CR TY GR CR
MC4 IC1 GH4 MC3 GH2 MC1-2

3x1C(1) 3x1C(2) 3x1C(2) 3x1C(2) 3x1C(2) 3x1C(2)

3x1C(1)

3x1C(1) 3x1C(1) 3x1C(1) 3x1C(1) 3x1C(1) 3x1C(1)

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SCCT(1)

SCCT(1)

SCCT(1)	SCCT(1)	SCCT(1)	SCCT(1)
25.4	26.9	26.7	26.9
			26.6
			27.0
			27.5

Breakeven RR by Year (\$M)

	Year \$										
	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	
TY	-67	-72	-77	-82	-87	-93	-100	-106	-113	-121	
GR3	-133	-142	-151	-161	-172	-184	-196	-209	-223	-238	
BR3	-217	-232	-247	-264	-282	-301	-321	-342	-365	-390	
CR4	-444	-474	-506	-540	-576	-615	-656	-700	-747	-797	
CR6	-499	-532	-568	-606	-647	-690	-736	-786	-839	-895	
BR1-2	-267	-285	-305	-325	-347	-370	-395	-421	-450	-480	
CR5	-469	-501	-535	-570	-609	-650	-693	-740	-789	-842	
GH3	-89	-95	-101	-108	-116	-123	-132	-140	-150	-160	
GH1	-170	-182	-194	-207	-221	-236	-251	-268	-286	-306	
GR4	-191	-204	-218	-232	-248	-264	-282	-301	-321	-343	
MC4	-245	-262	-279	-298	-318	-339	-362	-386	-412	-440	
TC1	98	105	112	120	128	136	145	155	166	177	
GH4	-145	-155	-166	-177	-189	-201	-215	-229	-245	-261	
MC3	-97	-103	-110	-117	-125	-134	-142	-152	-162	-173	
GH2	0	0	0	0	0	0	0	0	0	0	
MC1-2	-424	-453	-483	-516	-550	-587	-627	-669	-714	-762	

Breakeven Year

	<u>Must Op Thru</u>
BR3	2019
BR1-2	2021
GH3	2020
GH1	2021
MC4	2023
TC1	2018
GH4	2018
MC3	2021
GH2	2018
MC1-2	2024

Station	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
BR	BR1FFP 0	0	238	3,127	7,278	12,105	12,775	12,123	11,534	10,999	10,472
BR	BR1SAM 0	0	0	0	231	521	550	522	497	474	452
BR	BR2FFP 0	0	252	3,379	7,865	13,414	13,865	13,156	12,514	11,931	11,357
BR	BR2SAM 0	0	0	0	231	534	553	525	499	476	453
BR	BR3FFP 0	0	0	204	2,854	7,595	13,437	14,120	13,404	12,757	12,171
GH	GH1FFP 0	0	64	4,332	10,157	17,736	19,154	18,156	17,246	16,412	15,591
GH	GH1SAM 0	0	122	562	1,006	1,964	2,121	2,010	1,909	1,817	1,726
GH	GH2FFP 0	0	0	2,787	7,280	15,016	18,298	17,569	16,777	16,056	15,369
GH	GH2SAM 0	0	11	724	984	935	891	851	814	779	744
GH	GH3FFP 0	0	0	0	3,571	8,804	18,270	21,813	20,853	19,901	19,030
GH	GH3SAM 0	0	115	565	1,578	1,935	1,853	1,769	1,691	1,618	1,544
GH	GH4FFP 0	0	0	0	2,843	7,668	14,952	21,319	20,238	19,257	18,361
GH	GH4SAM 0	0	122	527	974	1,948	1,967	1,872	1,786	1,707	1,631
MC	MC1FGD 0	0	0	2,360	7,268	12,372	21,934	23,856	22,601	21,453	20,399
MC	MC1FFP 0	0	0	1,271	5,238	9,364	17,796	19,361	18,343	17,414	16,559
MC	MC1SAM 0	0	0	0	42	560	1,131	1,232	1,168	1,109	1,055
MC	MC2FGD 0	0	0	2,361	7,270	12,377	23,214	24,770	23,450	22,238	21,119
MC	MC2FFP 0	0	0	1,215	5,051	9,134	18,426	19,666	18,620	17,659	16,772
MC	MC2SAM 0	0	0	0	42	560	1,197	1,279	1,211	1,149	1,092
MC	MC3FGDU 0	0	0	646	3,668	6,975	9,472	9,135	8,699	8,295	7,908
MC	MC3FGDR 0	0	0	0	0	39	175	207	197	187	179
MC	MC3FFP 0	0	0	0	3,730	8,326	13,896	18,276	17,601	16,757	15,977
MC	MC3SAM 0	0	0	734	1,992	2,100	1,997	1,901	1,813	1,728	1,642
MC	MC4FGD 0	0	379	6,987	15,193	21,072	28,573	27,555	26,231	25,008	23,834
MC	MC4SCR 0	0	105	667	724	688	655	625	596	566	537
MC	MC4FFP 0	0	377	5,055	10,178	14,629	19,836	19,129	18,210	17,361	16,546
MC	MC4SAM 0	0	0	0	578	1,620	2,201	2,123	2,022	1,929	1,839
TC	TC1FFP 0	0	0	0	2,200	5,745	11,967	15,834	15,223	14,502	13,838
CR	CR4FGD 0	0	394	3,222	13,574	27,295	25,773	24,370	23,071	21,861	20,666
CR	CR4SCR 0	64	390	2,395	6,163	10,786	10,183	9,627	9,112	8,633	8,160
CR	CR4FF 0	0	280	1,715	3,329	5,526	5,216	4,930	4,666	4,421	4,178
CR	CR4PAC 0	0	0	0	235	386	365	345	327	310	293
CR	CR4LIME 0	0	0	0	259	427	403	381	361	342	323

CR	CR5	CR5FGD 0	0	359	3,311	14,658	29,304	27,663	26,148	24,742	23,429	22,132
CR	CR5	CR5SCR 0	63	388	2,719	6,475	11,557	10,908	10,308	9,752	9,234	8,721
CR	CR5	CR5FF 0	0	300	1,823	3,531	5,992	5,654	5,343	5,054	4,785	4,519
CR	CR5	CR5PAC 0	0	0	0	251	423	399	378	357	338	320
CR	CR5	CR5LIME 0	0	0	0	278	468	441	417	395	374	353
CR	CR6	CR6FGD 0	0	346	3,887	18,407	35,115	33,170	31,385	29,739	28,213	26,706
CR	CR6	CR6SCR 0	79	1,294	4,201	8,457	14,206	13,414	12,689	12,019	11,399	10,787
CR	CR6	CR6FF 0	0	394	2,364	4,540	7,252	6,848	6,477	6,136	5,819	5,507
CR	CR6	CR6PAC 0	0	0	0	352	558	527	499	473	448	424
CR	CR6	CR6LIME 0	0	0	0	391	619	585	553	525	498	471
GR	GR3	GR3SFF 0	0	0	1,323	4,035	5,553	5,254	4,983	4,739	4,516	4,297
GR	GR3	GR3PAC 0	0	0	0	112	154	145	138	131	125	119
GR	GR4	GR4SFF 0	0	0	1,885	5,750	8,517	8,050	7,626	7,237	6,881	6,529
GR	GR4	GR4PAC 0	0	0	0	160	235	223	211	200	190	181

9,946	9,420	8,894	8,368	7,842	7,483	7,291	7,099	6,908	6,716	6,525	6,333	6,141
429	407	384	362	339	324	315	307	299	291	282	274	266
10,783	10,210	9,636	9,062	8,488	8,095	7,881	7,668	7,455	7,242	7,028	6,815	6,602
431	408	385	362	340	324	315	307	298	290	281	273	264
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
14,769	13,948	13,127	12,305	11,484	10,897	10,545	10,193	9,841	9,489	9,137	8,785	8,433
1,635	1,544	1,453	1,362	1,271	1,206	1,167	1,128	1,089	1,050	1,011	972	933
14,684	13,998	13,313	12,627	11,942	11,257	10,791	10,556	10,330	10,104	9,878	9,652	9,425
709	674	639	605	570	546	535	523	511	500	488	476	464
18,199	17,369	16,538	15,708	14,877	14,047	13,216	12,647	12,344	12,047	11,750	11,452	11,155
1,471	1,397	1,324	1,250	1,177	1,126	1,099	1,073	1,047	1,020	994	967	941
17,541	16,757	15,973	15,188	14,404	13,619	12,835	12,050	11,513	11,223	10,932	10,642	10,352
1,555	1,479	1,403	1,328	1,252	1,176	1,124	1,096	1,068	1,039	1,011	983	955
19,360	18,320	17,281	16,242	15,203	14,164	13,412	12,949	12,485	12,022	11,558	11,095	10,631
15,717	14,875	14,032	13,190	12,348	11,506	10,896	10,520	10,143	9,767	9,390	9,013	8,637
1,001	948	895	841	788	735	696	672	648	624	600	576	552
20,015	18,911	17,806	16,702	15,598	14,494	13,677	13,148	12,618	12,088	11,558	11,028	10,499
15,896	15,021	14,145	13,270	12,395	11,519	10,871	10,450	10,029	9,608	9,187	8,766	8,344
1,035	978	922	865	808	752	710	682	655	627	600	572	545
7,522	7,135	6,748	6,362	5,975	5,589	5,303	5,124	4,950	4,777	4,603	4,429	4,256
170	162	154	145	137	128	121	115	111	107	104	100	96
15,228	14,480	13,732	12,985	12,237	11,489	10,742	10,190	9,844	9,510	9,175	8,841	8,506
1,557	1,472	1,387	1,302	1,217	1,155	1,116	1,077	1,039	1,000	961	923	884
22,662	21,491	20,319	19,147	17,976	16,804	15,940	15,402	14,880	14,358	13,836	13,314	12,792
508	479	449	420	399	386	372	359	346	332	319	306	292
15,733	14,919	14,106	13,293	12,479	11,666	11,066	10,692	10,330	9,968	9,605	9,243	8,881
1,749	1,660	1,570	1,480	1,391	1,301	1,235	1,193	1,153	1,112	1,072	1,031	991
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
19,471	18,276	17,081	15,886	14,691	13,773	13,130	12,488	11,845	11,203	10,560	0	0
7,687	7,214	6,740	6,267	5,794	5,431	5,177	4,924	4,671	4,417	4,164	0	0
3,935	3,692	3,450	3,207	2,964	2,778	2,648	2,519	2,389	2,260	2,130	0	0
276	259	242	225	208	195	186	177	168	159	150	0	0
305	286	267	249	230	216	206	195	185	175	165	0	0

20,835	19,538	18,241	16,944	15,647	14,641	13,924	13,207	12,490	11,774	0	0	0
8,208	7,696	7,183	6,670	6,158	5,760	5,478	5,196	4,914	4,632	0	0	0
4,253	3,987	3,721	3,455	3,189	2,983	2,837	2,691	2,545	2,399	0	0	0
301	282	263	245	226	212	201	191	180	170	0	0	0
333	312	291	271	250	234	222	211	199	188	0	0	0
25,199	23,692	22,185	20,678	19,171	18,033	17,265	16,496	15,727	14,959	14,190	13,421	12,653
10,175	9,563	8,951	8,339	7,727	7,266	6,956	6,646	6,337	6,027	5,717	5,408	5,098
5,194	4,882	4,569	4,257	3,944	3,709	3,551	3,393	3,235	3,077	2,919	2,761	2,602
401	377	353	329	305	287	275	262	250	238	226	213	201
445	418	391	365	338	318	305	291	278	264	250	237	223
4,078	3,859	3,640	3,421	3,202	3,050	2,967	2,884	2,800	2,717	2,634	2,550	2,467
113	107	101	95	89	85	82	80	78	75	73	71	68
6,177	5,825	5,473	5,122	4,770	4,515	4,356	4,198	4,040	3,881	3,723	3,565	3,407
171	161	152	142	132	125	121	116	112	108	103	99	94

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
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	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	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	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	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
66	64	62	59	57	55	52	50	48	45	43	41	38
3,248	3,090	2,932	2,773	2,615	0	0	0	0	0	0	0	0
90	86	81	77	73	0	0	0	0	0	0	0	0

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Retirement Cost		2010	2011	2012	2013	2014	2015	2016	2017	2018
All Units		0	0	0	0	0	0	2100	0	0

2% Escalation Rate

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

2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
0	0	0	0	0	0	0	0	0	0	0	0
4,470	4,559	4,651	4,744	4,838	4,935	5,034	5,135	5,237	5,342	5,449	5,558
8,168	8,331	8,498	8,668	8,841	9,018	9,199	9,383	9,570	9,762	9,957	10,156
16,784	17,120	17,462	17,811	18,167	18,531	18,901	19,279	19,665	20,058	20,460	20,869
13,546	13,817	14,094	14,375	14,663	14,956	15,255	15,560	15,872	16,189	16,513	16,843
14,405	14,693	14,987	15,286	15,592	15,904	16,222	16,546	16,877	17,215	17,559	17,910
11,456	11,685	11,919	12,157	12,400	12,648	12,901	13,159	13,423	13,691	13,965	14,244
20,232	20,637	21,050	21,471	21,900	22,338	22,785	23,240	23,705	24,179	24,663	25,156
15,124	15,426	15,735	16,049	16,370	16,698	17,032	17,372	17,720	18,074	18,436	18,804
14,049	14,330	14,616	14,909	15,207	15,511	15,821	16,138	16,460	16,790	17,125	17,468
13,632	13,905	14,183	14,467	14,756	15,051	15,352	15,659	15,973	16,292	16,618	16,950
4,910	5,008	5,108	5,210	5,314	5,421	5,529	5,640	5,753	5,868	5,985	6,105
9,722	9,916	10,115	10,317	10,523	10,734	10,949	11,167	11,391	11,619	11,851	12,088
14,268	14,553	14,844	15,141	15,444	15,753	16,068	16,389	16,717	17,051	17,392	17,740
17,118	17,461	17,810	18,166	18,530	18,900	19,278	19,664	20,057	20,458	20,867	21,285
19,394	19,782	20,177	20,581	20,993	21,412	21,841	22,278	22,723	23,178	23,641	24,114
19,421	19,809	20,205	20,609	21,021	21,442	21,871	22,308	22,754	23,209	23,674	24,147
19,598	19,990	20,390	20,798	21,214	21,638	22,071	22,512	22,962	23,422	23,890	24,368
471	480	490	500	510	520	530	541	552	563	574	586

2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
0	0	0	0	0	0	0	0	0	0
5,669	5,782	5,898	6,016	6,136	6,259	6,384	6,512	6,642	6,775
10,359	10,566	10,778	10,993	11,213	11,437	11,666	11,899	12,137	12,380
21,286	21,712	22,146	22,589	23,041	23,502	23,972	24,451	24,940	25,439
17,180	17,524	17,874	18,232	18,596	18,968	19,347	19,734	20,129	20,532
18,269	18,634	19,007	19,387	19,775	20,170	20,573	20,985	21,405	21,833
14,529	14,820	15,116	15,418	15,727	16,041	16,362	16,689	17,023	17,364
25,659	26,172	26,696	27,230	27,774	28,330	28,897	29,474	30,064	30,665
19,181	19,564	19,955	20,355	20,762	21,177	21,600	22,032	22,473	22,923
17,817	18,174	18,537	18,908	19,286	19,672	20,065	20,466	20,876	21,293
17,289	17,635	17,988	18,347	18,714	19,089	19,470	19,860	20,257	20,662
6,227	6,351	6,478	6,608	6,740	6,875	7,012	7,153	7,296	7,442
12,330	12,576	12,828	13,084	13,346	13,613	13,885	14,163	14,446	14,735
18,095	18,457	18,826	19,202	19,586	19,978	20,378	20,785	21,201	21,625
21,710	22,145	22,587	23,039	23,500	23,970	24,449	24,938	25,437	25,946
24,596	25,088	25,590	26,102	26,624	27,156	27,699	28,253	28,818	29,395
24,630	25,123	25,625	26,138	26,660	27,194	27,737	28,292	28,858	29,435
24,855	25,352	25,859	26,377	26,904	27,442	27,991	28,551	29,122	29,704
597	609	622	634	647	660	673	686	700	714

Escalation Rate:		2%	Year \$:	2010	Fixed O&M									
		Year Equipment	\$/Yr											
	Month	Year Equipment	\$/Yr	2011	2012	2013	2014	2015	2016	2017				
BR	BR1	2014 PJFF/PAC	5	0	0	0	598,882	610,860	623,077	635,538				
BR	BR1	2014 SAM Mitigation	5	0	0	0	78,540	137,333	140,079	142,881				
BR	BR2	2014 PJFF/PAC	4	0	0	0	714,168	728,451	743,020	757,880				
BR	BR2	2014 SAM Mitigation	4	0	0	0	134,640	137,333	140,079	142,881				
BR	BR3	2015 PJFF/PAC	5	0	0	0	0	1,067,560	1,088,911	1,110,689				
GH	GH1	2014 PJFF/PAC	5	0	0	0	1,293,082	1,318,944	1,345,322	1,372,229				
GH	GH1	2014 SCR Turn-Down	5	0	0	0	0	0	0	0				
GH	GH1	2013 SAM Mitigation	2	0	0	0	4,899	0	0	0				
GH	GH2	2014 PJFF/PAC	11	0	0	0	777,600	1,586,304	1,618,030	1,650,391				
GH	GH2	2012 Sorbent Injection	12	0	8,064	98,700	100,674	102,687	104,741	106,836				
GH	GH3	2015 PJFF/PAC	10	0	0	0	0	652,436	1,330,969	1,357,589				
GH	GH3	2013 SCR Turn-Down	11	0	0	0	0	0	0	0				
GH	GH3	2013 SAM Mitigation	2	0	0	0	0	0	0	0				
GH	GH4	2015 PJFF/PAC	12	0	0	0	0	631,870	1,289,014	1,314,795				
GH	GH4	2014 SCR Turn-Down	3	0	0	0	0	0	0	0				
GH	GH4	2013 SAM Mitigation	2	0	0	0	0	0	0	0				
MC	MC1	2015 Combined 1&2 FGD	5	0	0	0	0	-238,642	-219,636	-200,250				
MC	MC1	2015 PJFF/PAC	5	0	0	0	0	1,446,222	1,475,147	1,504,650				
MC	MC1	2015 SAM Mitigation	5	0	0	0	0	22,100	38,643	39,416				
MC	MC2	2015 Combined 1&2 FGD	4	0	0	0	0	186,506	205,512	224,899				
MC	MC2	2015 PJFF/PAC	4	0	0	0	0	1,418,867	1,447,245	1,476,189				
MC	MC2	2015 SAM Mitigation	4	0	0	0	0	25,257	38,643	39,416				
MC	MC3	2014 FGD	11	0	0	0	0	0	0	0				
MC	MC3	2015 PJFF/PAC	10	0	0	0	0	646,753	1,319,377	1,345,764				
MC	MC3	2013 SAM Mitigation	4	0	24,068	36,824	37,560	38,312	39,078	39,078				
MC	MC3	2013 SCR Turn-Down	4	0	0	0	0	0	0	0				
MC	MC4	2014 FGD	11	0	0	0	0	0	0	0				
MC	MC4	2014 PJFF/PAC	11	0	0	0	743,376	1,516,487	1,546,817	1,577,754				
MC	MC4	2014 SAM Mitigation	11	0	0	0	3,095	37,885	38,643	39,416				
MC	MC4	2014 SCR Turn-Down	11	0	0	0	0	0	0	0				
TC	TC1	2015 PJFF/PAC	11	0	0	0	0	493,761	1,007,273	1,027,418				

CR	CR4	1	2016 SCR	1,871,000	0	0	0	0	0	0	0	2,107,050	2,149,191
CR	CR4	1	2016 WFGD		0	0	0	0	0	0	0	0	0
CR	CR4	1	2016 PJFF	1,191,000	0	0	0	0	0	0	0	1,341,259	1,368,085
CR	CR4	1	2016 SAM Mitigation	174,000	0	0	0	0	0	0	0	195,952	199,871
CR	CR4	1	2016 PAC Injection	169,000	0	0	0	0	0	0	0	190,321	194,128
CR	CR5	1	2016 SCR	1,993,000	0	0	0	0	0	0	0	2,244,442	2,289,331
CR	CR5	1	2016 WFGD		0	0	0	0	0	0	0	0	0
CR	CR5	1	2016 PJFF	1,251,000	0	0	0	0	0	0	0	1,408,829	1,437,006
CR	CR5	1	2016 SAM Mitigation	177,000	0	0	0	0	0	0	0	199,331	203,317
CR	CR5	1	2016 PAC Injection	172,000	0	0	0	0	0	0	0	193,700	197,574
CR	CR6	1	2016 SCR	2,392,000	0	0	0	0	0	0	0	2,693,781	2,747,656
CR	CR6	1	2016 WFGD		0	0	0	0	0	0	0	0	0
CR	CR6	1	2016 PJFF	1,632,000	0	0	0	0	0	0	0	1,837,897	1,874,655
CR	CR6	1	2016 SAM Mitigation	198,000	0	0	0	0	0	0	0	222,980	227,440
CR	CR6	1	2016 PAC Injection	191,000	0	0	0	0	0	0	0	215,097	219,399
GR	GR3	1	2016 SCR	943,000	0	0	0	0	0	0	0	1,061,971	1,083,211
GR	GR3	1	2016 CDS-FF	3,322,000	0	0	0	0	0	0	0	3,741,112	3,815,934
GR	GR3	1	2016 PAC Injection	141,000	0	0	0	0	0	0	0	158,789	161,965
GR	GR4	1	2016 SCR	1,284,000	0	0	0	0	0	0	0	1,445,993	1,474,912
GR	GR4	1	2016 CDS-FF	4,309,000	0	0	0	0	0	0	0	4,852,634	4,949,687
GR	GR4	1	2016 PAC Injection	150,000	0	0	0	0	0	0	0	168,924	172,303

<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>2028</u>	<u>2029</u>
648,249	661,214	674,439	687,927	701,686	715,720	730,034	744,635	759,527	774,718	790,212	806,016
145,739	148,653	151,627	154,659	157,752	160,907	164,125	167,408	170,756	174,171	177,655	181,208
773,038	788,499	804,269	820,354	836,761	853,496	870,566	887,978	905,737	923,852	942,329	961,175
145,739	148,653	151,627	154,659	157,752	160,907	164,125	167,408	170,756	174,171	177,655	181,208
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	1,381,002	1,408,622
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	1,706,194	1,740,318
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
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	2,052,054	2,093,095
108,973	111,152	113,375	115,643	117,956	120,315	122,721	125,175	127,679	130,232	132,837	135,494
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	1,687,991	1,721,751
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
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	1,634,782	1,667,477
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
-180,476	-160,306	-139,733	-118,749	-121,124	-123,546	-126,017	-128,537	-131,108	-133,730	-136,405	-139,133
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	1,870,843	1,908,260
40,204	41,008	41,828	42,665	43,518	44,388	45,276	46,182	47,105	48,047	49,008	49,989
244,673	264,842	285,415	306,400	312,528	318,778	325,154	331,657	338,290	345,056	351,957	358,996
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	1,835,456	1,872,165
40,204	41,008	41,828	42,665	43,518	44,388	45,276	46,182	47,105	48,047	49,008	49,989
0	0	0	0	0	0	0	0	0	0	0	0
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	1,673,288	1,706,754
39,859	40,657	41,470	42,299	43,145	44,008	44,888	45,786	46,702	47,636	48,588	49,560
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
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	1,961,738	2,000,973
40,204	41,008	41,828	42,665	43,518	44,388	45,276	46,182	47,105	48,047	49,008	49,989
0	0	0	0	0	0	0	0	0	0	0	0
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	1,277,465	1,303,015

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	2,672,249	2,725,694
0	0	0	0	0	0	0	0	0	0	0	0
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	1,701,041	1,735,062
203,869	207,946	212,105	216,347	220,674	225,088	229,589	234,181	238,865	243,642	248,515	253,485
198,010	201,971	206,010	210,130	214,333	218,620	222,992	227,452	232,001	236,641	241,374	246,201
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	2,846,495	2,903,425
0	0	0	0	0	0	0	0	0	0	0	0
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	1,786,736	1,822,471
207,384	211,531	215,762	220,077	224,479	228,968	233,548	238,219	242,983	247,843	252,800	257,856
201,525	205,556	209,667	213,860	218,138	222,500	226,950	231,489	236,119	240,842	245,658	250,572
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	3,416,365	3,484,692
0	0	0	0	0	0	0	0	0	0	0	0
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	2,330,898	2,377,516
231,989	236,628	241,361	246,188	251,112	256,134	261,257	266,482	271,812	277,248	282,793	288,449
223,787	228,263	232,828	237,484	242,234	247,079	252,020	257,061	262,202	267,446	272,795	278,251
1,104,875	1,126,972	1,149,512	1,172,502	1,195,952	1,219,871	1,244,268	1,269,154	1,294,537	1,320,428	1,346,836	1,373,773
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	4,744,634	4,839,527
165,204	168,508	171,878	175,316	178,822	182,399	186,047	189,767	193,563	197,434	201,383	205,410
1,504,411	1,534,499	1,565,189	1,596,493	1,628,422	1,660,991	1,694,211	1,728,095	1,762,657	1,797,910	1,833,868	1,870,546
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	6,154,313	6,277,399
175,749	179,264	182,849	186,506	190,236	194,041	197,922	201,880	205,918	210,036	214,237	218,522

<u>2030</u>	<u>2031</u>	<u>2032</u>	<u>2033</u>	<u>2034</u>	<u>2035</u>	<u>2036</u>	<u>2037</u>	<u>2038</u>	<u>2039</u>	<u>2040</u>
822,137	838,580	855,351	872,458	889,907	907,705	925,860	944,377	963,264	982,530	1,002,180
184,832	188,529	192,299	196,145	200,068	204,069	208,151	212,314	216,560	220,891	225,309
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
184,832	188,529	192,299	196,145	200,068	204,069	208,151	212,314	216,560	220,891	225,309
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
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
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
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
138,204	140,968	143,787	146,663	149,596	152,588	155,640	158,753	161,928	165,166	168,470
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
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
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
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
-141,916	-144,754	-147,649	-150,602	-153,614	-156,686	-159,820	-163,017	-166,277	-169,602	-172,994
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
50,988	52,008	53,048	54,109	55,191	56,295	57,421	58,570	59,741	60,936	62,155
366,176	373,499	380,969	388,589	396,361	404,288	412,374	420,621	429,033	437,614	446,366
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
50,988	52,008	53,048	54,109	55,191	56,295	57,421	58,570	59,741	60,936	62,155
0	0	0	0	0	0	0	0	0	0	0
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
50,551	51,562	52,594	53,645	54,718	55,813	56,929	58,068	59,229	60,414	61,622
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
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
50,988	52,008	53,048	54,109	55,191	56,295	57,421	58,570	59,741	60,936	62,155
0	0	0	0	0	0	0	0	0	0	0
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

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
0	0	0	0	0	0	0	0	0	0	0
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
258,555	263,726	269,000	274,380	279,868	285,465	291,175	296,998	302,938	308,997	315,177
251,125	256,148	261,271	266,496	271,826	277,262	282,808	288,464	294,233	300,118	306,120
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
0	0	0	0	0	0	0	0	0	0	0
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
263,013	268,273	273,638	279,111	284,693	290,387	296,195	302,119	308,161	314,325	320,611
255,583	260,695	265,909	271,227	276,651	282,184	287,828	293,584	299,456	305,445	311,554
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
0	0	0	0	0	0	0	0	0	0	0
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
294,218	300,102	306,104	312,226	318,471	324,840	331,337	337,964	344,723	351,617	358,650
283,816	289,492	295,282	301,188	307,212	313,356	319,623	326,015	332,536	339,186	345,970
1,401,248	1,429,273	1,457,859	1,487,016	1,516,756	1,547,091	1,578,033	1,609,594	1,641,786	1,674,622	1,708,114
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
209,519	213,709	217,983	222,343	226,790	231,325	235,952	240,671	245,484	250,394	255,402
1,907,956	1,946,116	1,985,038	2,024,739	2,065,233	2,106,538	2,148,669	2,191,642	2,235,475	2,280,185	2,325,788
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
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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2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
931	1,008	1,085	1,163	1,241	1,320	1,399	1,479	1,560	1,642	1,724	1,807	1,891
1,539	1,667	1,794	1,922	2,052	2,182	2,313	2,446	2,579	2,714	2,850	2,988	3,126
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
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
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
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
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
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
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
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
553	598	643	689	734	780	825	871	918	964	1,011	1,057	1,104
772	836	899	962	1,026	1,089	1,153	1,217	1,282	1,347	1,412	1,477	1,543
4,487	4,862	5,229	5,592	5,956	6,320	6,686	7,053	7,421	7,790	8,160	8,531	8,903
4,458	4,830	5,194	5,555	5,916	6,279	6,642	7,007	7,372	7,739	8,106	8,475	8,845
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
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
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
2,207	2,394	2,579	2,762	2,948	3,136	3,325	3,517	3,710	3,906	4,104	4,304	4,506
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
266	246	231	221	211	200	190	180	169	0	0	0	0
293	272	252	237	226	216	205	195	184	174	0	0	0
321	300	279	259	243	232	221	210	200	189	178	0	0
350	329	307	286	265	249	238	227	216	205	194	182	0
380	358	337	315	293	272	255	244	232	221	210	198	187
412	390	367	345	323	301	279	262	250	238	227	215	203
445	422	399	377	354	331	308	286	268	256	244	232	220
482	456	433	409	386	363	339	316	293	275	263	250	238
522	494	468	444	420	396	372	348	324	300	282	269	257

567	535	506	479	455	430	406	381	357	332	307	289	276
360	581	548	519	491	466	441	416	391	365	340	315	296
	369	595	562	532	504	478	452	426	400	375	349	323
		378	610	576	545	516	490	463	437	410	384	358
			387	625	591	559	529	502	475	448	421	394
				397	641	605	573	542	514	487	459	431
					407	657	621	587	556	527	499	470
						417	673	636	602	570	540	511
							428	690	652	617	584	554
								438	708	668	632	599
									449	725	685	648
										461	743	702
											472	762
												484

1,361	1,276	1,191	1,128	1,089	1,049	1,010	970	931	891	851	812	772
1,483	1,395	1,308	1,221	1,157	1,116	1,075	1,035	994	954	913	873	832
1,610	1,520	1,430	1,341	1,251	1,185	1,144	1,102	1,061	1,019	978	936	895
1,742	1,650	1,558	1,466	1,374	1,282	1,215	1,173	1,130	1,087	1,045	1,002	960
1,879	1,785	1,691	1,597	1,503	1,409	1,314	1,245	1,202	1,158	1,115	1,071	1,027
2,023	1,926	1,830	1,733	1,637	1,540	1,444	1,347	1,277	1,232	1,187	1,142	1,098
2,176	2,073	1,975	1,876	1,777	1,678	1,579	1,480	1,381	1,309	1,263	1,217	1,171
2,344	2,231	2,125	2,024	1,922	1,821	1,720	1,618	1,517	1,415	1,341	1,294	1,247
2,529	2,403	2,286	2,178	2,075	1,971	1,867	1,763	1,659	1,555	1,451	1,375	1,327
2,733	2,592	2,463	2,344	2,233	2,126	2,020	1,913	1,807	1,700	1,594	1,487	1,409
1,919	2,801	2,657	2,524	2,402	2,289	2,180	2,070	1,961	1,852	1,743	1,634	1,524
	1,967	2,871	2,723	2,588	2,462	2,346	2,234	2,122	2,010	1,898	1,786	1,674
		2,016	2,943	2,792	2,652	2,524	2,405	2,290	2,175	2,060	1,946	1,831

2,066	3,017	2,861	2,719	2,587	2,465	2,347	2,230	2,112	1,994
	2,118	3,092	2,933	2,787	2,651	2,526	2,406	2,285	2,165
		2,171	3,170	3,006	2,856	2,718	2,589	2,466	2,342
			2,225	3,249	3,081	2,928	2,786	2,654	2,528
				2,281	3,330	3,158	3,001	2,855	2,721
					2,338	3,413	3,237	3,076	2,927
						2,396	3,499	3,318	3,153
							2,456	3,586	3,401
								2,518	3,676
									2,580

238	225	211	203	198	193	189	184	179	175	170	165	161
257	244	230	217	208	203	198	193	189	184	179	174	170
278	264	250	236	222	213	208	203	198	193	188	184	179
299	285	270	256	242	228	218	213	208	203	198	193	188
321	306	292	277	263	248	233	224	218	213	208	203	198
344	329	314	299	284	269	254	239	229	224	219	213	208
369	353	337	322	307	291	276	261	245	235	230	224	219
396	378	361	346	330	314	298	283	267	251	241	235	230
426	406	387	370	354	338	322	306	290	274	258	247	241
460	437	416	397	380	363	347	330	314	297	281	264	253
360	471	447	426	407	389	372	355	338	321	305	288	271
	369	483	459	437	417	399	381	364	347	329	312	295
		378	495	470	448	427	409	391	373	355	338	320
			387	507	482	459	438	419	401	383	364	346
				397	520	494	470	449	429	411	392	373
					407	533	506	482	460	440	421	402
						417	546	519	494	472	451	432

1,768	1,667	1,567	1,498	1,460	1,422	1,384	1,346	1,309	1,271	1,233	1,195	1,158
1,916	1,812	1,709	1,606	1,535	1,496	1,458	1,419	1,380	1,341	1,303	1,264	1,225
2,069	1,963	1,858	1,752	1,646	1,573	1,534	1,494	1,454	1,415	1,375	1,335	1,296
2,229	2,121	2,013	1,904	1,796	1,687	1,613	1,572	1,531	1,491	1,450	1,409	1,369
2,396	2,285	2,174	2,063	1,952	1,841	1,729	1,653	1,611	1,570	1,528	1,486	1,445
2,570	2,456	2,342	2,228	2,114	2,001	1,887	1,773	1,694	1,652	1,609	1,566	1,523
2,756	2,634	2,518	2,401	2,284	2,167	2,051	1,934	1,817	1,737	1,693	1,649	1,605
2,962	2,825	2,700	2,581	2,461	2,341	2,221	2,102	1,982	1,862	1,780	1,735	1,690
3,189	3,036	2,896	2,768	2,645	2,522	2,400	2,277	2,154	2,032	1,909	1,825	1,779
3,442	3,269	3,112	2,968	2,837	2,711	2,585	2,460	2,334	2,208	2,082	1,957	1,870
2,638	3,528	3,350	3,189	3,042	2,908	2,779	2,650	2,521	2,392	2,263	2,134	2,006
	2,704	3,616	3,434	3,269	3,119	2,981	2,848	2,716	2,584	2,452	2,320	2,188
		2,772	3,706	3,520	3,351	3,196	3,055	2,920	2,784	2,649	2,513	2,378
			2,841	3,799	3,608	3,435	3,276	3,131	2,993	2,854	2,715	2,576
				2,912	3,894	3,698	3,521	3,358	3,210	3,067	2,925	2,783
					2,985	3,991	3,791	3,609	3,442	3,290	3,144	2,998
						3,060	4,091	3,886	3,699	3,528	3,372	3,223
							3,136	4,193	3,983	3,791	3,617	3,456
								3,214	4,298	4,082	3,886	3,707
									3,295	4,406	4,184	3,983
										3,377	4,516	4,289

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99 93 87 81 77 74 71 69 66 64 61 59 56
107 101 95 89 83 79 76 73 71 68 65 63 60
116 110 104 97 91 85 81 78 75 72 70 67 64
125 119 112 106 100 93 87 83 80 77 74 71 69
135 128 122 115 109 102 96 89 85 82 79 76 73
145 138 131 125 118 111 105 98 92 87 84 81 78
157 149 142 135 128 121 114 107 101 94 89 86 83
171 161 153 145 138 131 124 117 110 103 96 91 88
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263	250	237	224	212	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
283	270	256	243	230	217	0	0	0	0	0	0	0	0	0	0	0	0	0	0
303	290	276	263	249	236	222	0	0	0	0	0	0	0	0	0	0	0	0	0
331	311	297	283	269	256	242	228	248	0	0	0	0	0	0	0	0	0	0	0
366	339	319	305	290	276	262	248	234	234	0	0	0	0	0	0	0	0	0	0
403	376	348	327	312	298	283	268	254	254	239	0	0	0	0	0	0	0	0	0
442	413	385	357	335	320	305	290	275	275	260	245	0	0	0	0	0	0	0	0
482	453	424	395	365	343	328	313	297	297	282	267	252	0	0	0	0	0	0	0
524	494	464	434	404	375	352	336	320	320	305	289	273	258	0	0	0	0	0	0
568	537	506	476	445	415	384	361	345	345	329	312	296	280	280	0	0	0	0	0
614	582	551	519	488	456	425	394	370	370	353	337	320	304	304	0	0	0	0	0
664	629	596	564	532	500	468	436	403	403	379	362	345	328	328	0	0	0	0	0
720	681	645	611	578	545	512	479	446	446	414	388	371	354	354	0	0	0	0	0
781	738	698	661	627	593	559	525	491	491	458	424	398	380	380	0	0	0	0	0
496	800	756	715	677	642	608	573	538	538	504	469	434	408	408	0	0	0	0	0
	508	820	775	733	694	658	623	587	587	552	516	481	445	445	0	0	0	0	0
		521	841	794	751	712	675	638	638	602	566	529	493	493	0	0	0	0	0
			534	862	814	770	730	692	692	654	617	580	542	542	0	0	0	0	0
				547	884	835	789	748	748	709	671	633	594	594	0	0	0	0	0
					561	906	855	809	809	766	727	688	648	648	0	0	0	0	0
						575	928	877	877	829	786	745	705	705	0	0	0	0	0
733	693	654	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
792	751	711	670	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
853	811	770	728	687	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
917	874	832	789	747	704	0	0	0	0	0	0	0	0	0	0	0	0	0	0
984	940	896	853	809	765	722	0	0	0	0	0	0	0	0	0	0	0	0	0
1,053	1,008	963	919	874	829	784	740	0	0	0	0	0	0	0	0	0	0	0	0
1,125	1,079	1,033	987	942	896	850	804	758	758	0	0	0	0	0	0	0	0	0	0
1,200	1,153	1,106	1,059	1,012	965	918	871	824	824	777	0	0	0	0	0	0	0	0	0
1,278	1,230	1,182	1,134	1,086	1,037	989	941	893	893	845	797	0	0	0	0	0	0	0	0
1,360	1,310	1,261	1,212	1,162	1,113	1,063	1,014	965	965	915	866	816	0	0	0	0	0	0	0
1,444	1,394	1,343	1,292	1,242	1,191	1,141	1,090	1,039	1,039	989	938	887	837	837	0	0	0	0	0
1,562	1,480	1,429	1,377	1,325	1,273	1,221	1,169	1,117	1,117	1,065	1,013	962	910	910	0	0	0	0	0
1,716	1,601	1,518	1,464	1,411	1,358	1,305	1,252	1,198	1,198	1,145	1,092	1,039	986	986	0	0	0	0	0

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
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
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
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
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
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
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
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
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
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
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
	2,711	3,958	3,754	3,567	3,394	3,234	3,080	2,925	2,771	2,617	2,462	2,308
		2,779	4,057	3,848	3,656	3,479	3,315	3,157	2,998	2,840	2,682	2,524
			2,848	4,159	3,944	3,748	3,566	3,398	3,236	3,073	2,911	2,749
				2,920	4,263	4,043	3,841	3,655	3,483	3,316	3,150	2,984
					2,993	4,369	4,144	3,937	3,746	3,570	3,399	3,229
						3,067	4,478	4,248	4,036	3,840	3,659	3,484
156	152	147	142	138	133	128	124	119	114	110	105	101
165	160	155	151	146	141	136	132	127	122	117	113	108
174	169	164	159	154	149	145	140	135	130	125	120	115
183	178	173	168	163	158	153	148	143	138	133	128	123
193	188	183	178	172	167	162	157	152	147	142	137	131
203	198	192	187	182	177	171	166	161	156	150	145	140
213	208	203	197	192	187	181	176	170	165	160	154	149
224	219	213	208	202	197	191	186	180	175	169	164	158
235	230	224	219	213	207	202	196	190	185	179	173	168
247	241	236	230	224	218	212	207	201	195	189	183	178
259	253	247	241	236	230	224	218	212	206	200	194	188
277	266	260	254	248	241	235	229	223	217	211	205	199
302	284	272	266	260	254	247	241	235	229	223	216	210
328	310	292	279	273	266	260	254	247	241	234	228	222
355	336	317	299	286	280	273	267	260	253	247	240	234
383	364	345	325	306	293	287	280	273	266	260	253	246
412	392	373	353	334	314	301	294	287	280	273	266	259

442	422	402	382	362	342	322	308	301	294	287	280	273
474	453	433	412	392	371	350	330	316	309	301	294	287
508	486	465	444	423	401	380	359	338	324	316	309	302
546	521	498	476	455	433	411	390	368	347	332	324	317
587	559	534	511	488	466	444	422	400	377	355	340	332
633	602	573	547	523	501	478	455	432	410	387	364	349
496	649	617	588	561	536	513	490	466	443	420	396	373
	508	665	632	602	575	550	526	502	478	454	430	406
		521	682	648	617	589	564	539	515	490	466	441
			534	699	664	633	604	578	553	527	502	477
				547	717	681	648	619	592	566	541	515
					561	735	698	665	634	607	580	554
						575	753	715	681	650	622	595
1,120	1,082	1,044	1,007	969	931	893	856	818	780	742	704	667
1,187	1,148	1,109	1,070	1,032	993	954	916	877	838	800	761	722
1,256	1,216	1,177	1,137	1,097	1,058	1,018	978	939	899	859	819	780
1,328	1,287	1,247	1,206	1,165	1,125	1,084	1,043	1,003	962	921	881	840
1,403	1,361	1,320	1,278	1,236	1,194	1,153	1,111	1,069	1,028	986	944	903
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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

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
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
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
	3,728	4,984	4,734	4,507	4,299	4,109	3,927	3,744	3,562	3,380	3,198	3,016
		3,821	5,109	4,852	4,619	4,406	4,211	4,025	3,838	3,651	3,465	3,278
		3,917	5,237	4,974	4,735	4,517	4,317	4,125	3,934	3,743	3,551	3,351
			4,014	5,368	4,974	4,629	4,425	4,228	4,032	3,836	3,645	3,452
			4,115	5,502	4,974	4,745	4,535	4,334	4,133	3,934	3,743	3,551
			4,218	5,639	5,099	4,864	4,649	4,443	4,242	4,032	3,836	3,645
253	244	235	226	218	209	200	191	182	173	165	156	147
268	259	250	241	232	223	214	205	196	187	178	169	160
284	275	266	256	247	238	229	219	210	201	191	182	173
301	291	282	272	263	253	244	234	225	215	206	196	187
318	308	299	289	279	269	260	250	240	230	221	211	201
336	326	316	306	296	286	276	266	256	246	236	226	216
355	344	334	324	314	303	293	283	273	263	252	242	232
374	364	353	343	332	322	311	301	290	280	269	259	248
394	383	373	362	351	340	330	319	308	297	287	276	265
415	404	393	382	371	360	349	338	327	316	305	294	283
437	425	414	403	391	380	369	358	346	335	324	312	301
459	448	436	424	413	401	390	378	367	355	343	332	320
493	471	459	447	435	423	411	399	388	376	364	352	340
539	505	482	470	458	446	434	422	409	397	385	373	361
587	552	518	495	482	470	457	445	432	420	407	395	382
637	602	566	531	507	494	481	469	456	443	430	417	405
689	653	617	580	544	520	506	493	480	467	454	441	428
743	706	669	632	595	558	533	519	506	492	479	465	452
800	762	724	686	648	610	572	546	532	518	505	491	477
860	820	781	742	703	664	625	586	559	545	531	517	503
926	881	841	801	761	721	681	641	601	573	559	545	530
1,000	949	903	862	821	780	739	698	657	616	588	573	558
1,083	1,025	973	926	883	841	799	757	715	673	631	603	587
827	1,110	1,050	997	949	905	862	819	776	733	690	647	618
	847	1,138	1,077	1,022	973	928	884	840	795	751	707	663

266	259	252	245	238	231	224	217	209	202	195	188	181
280	273	265	258	251	244	236	229	222	215	207	200	193
294	287	279	272	265	257	250	242	235	227	220	213	205
309	302	294	286	279	271	264	256	248	241	233	226	218
325	317	309	301	293	286	278	270	262	255	247	239	231
341	333	325	317	309	301	293	285	277	269	261	253	245
357	349	341	333	325	317	308	300	292	284	276	267	259
382	366	358	350	341	333	324	316	308	299	291	283	274
417	392	376	367	358	350	341	333	324	315	307	298	290
452	427	402	385	376	367	358	350	341	332	323	314	306
489	463	438	412	395	385	376	367	358	349	340	331	322
528	501	475	449	422	404	395	386	377	367	358	349	340
568	541	514	487	460	433	414	405	396	386	377	367	358
629	0	0	0	0	0	0	0	0	0	0	0	0
683	645	0	0	0	0	0	0	0	0	0	0	0
740	700	661	0	0	0	0	0	0	0	0	0	0
799	759	718	677	0	0	0	0	0	0	0	0	0
861	819	778	736	694	0	0	0	0	0	0	0	0
925	882	840	797	754	712	0	0	0	0	0	0	0
992	948	905	861	817	773	729	0	0	0	0	0	0
1,062	1,017	972	927	882	837	792	748	0	0	0	0	0
1,134	1,088	1,042	996	950	904	858	812	766	0	0	0	0
1,210	1,163	1,116	1,068	1,021	974	927	880	833	785	0	0	0
1,289	1,240	1,192	1,143	1,095	1,047	998	950	902	853	805	0	0
1,370	1,321	1,271	1,222	1,172	1,123	1,073	1,023	974	924	875	825	0
1,455	1,405	1,354	1,303	1,252	1,201	1,151	1,100	1,049	998	947	897	846
1,544	1,492	1,440	1,388	1,336	1,283	1,231	1,179	1,127	1,075	1,023	971	919
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
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
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
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
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
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
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

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
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
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
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
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
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
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
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
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
0	0	0	0	0	0	0	0	0	0	0	0	0
151	0	0	0	0	0	0	0	0	0	0	0	0
164	154	0	0	0	0	0	0	0	0	0	0	0
177	168	158	0	0	0	0	0	0	0	0	0	0
191	182	172	162	0	0	0	0	0	0	0	0	0
206	196	186	176	166	0	0	0	0	0	0	0	0
222	211	201	191	181	170	0	0	0	0	0	0	0
238	227	217	206	196	185	175	0	0	0	0	0	0
254	244	233	222	211	201	190	179	0	0	0	0	0
272	261	250	239	228	217	206	195	183	0	0	0	0
290	278	267	256	245	233	222	211	199	188	0	0	0
309	297	285	274	262	251	239	228	216	204	193	0	0
328	316	304	293	281	269	257	245	233	221	209	198	0
349	336	324	312	300	288	276	263	251	239	227	215	203
370	357	345	332	320	307	295	282	270	257	245	233	220
392	379	366	353	341	328	315	302	290	277	264	251	238
415	402	388	375	362	349	336	323	310	297	284	271	257
438	425	412	398	385	371	358	344	331	318	304	291	277
463	449	436	422	408	394	381	367	353	339	326	312	298
489	475	461	447	432	418	404	390	376	362	348	334	320
516	501	487	472	458	443	429	414	400	385	371	356	342
543	529	514	499	484	469	454	440	425	410	395	380	365
572	557	542	527	511	496	481	466	451	435	420	405	390
602	586	571	555	540	524	509	493	477	462	446	431	415
633	617	601	585	569	553	537	521	505	489	473	457	441

680	649	632	616	600	583	567	551	534	518	502	485	469
743	697	665	648	632	615	598	581	564	548	531	514	497
809	762	714	682	664	647	630	613	596	579	561	544	527
878	829	781	732	699	681	663	646	628	611	593	575	558
950	900	850	800	750	716	698	680	662	644	626	608	590
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
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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
47	0	0	0	0	0	0	0	0	0	0	0	0
51	48	0	0	0	0	0	0	0	0	0	0	0
56	53	50	0	0	0	0	0	0	0	0	0	0
60	57	54	51	52	54	55	56	58	59	60	61	62
65	62	59	55	57	58	60	61	63	64	65	66	67
70	66	63	60	61	63	65	66	68	69	70	71	72
75	71	68	65	66	68	70	71	73	74	75	76	77
80	77	73	70	72	73	75	76	78	79	80	81	82
86	82	79	75	77	79	81	82	84	85	86	87	88
91	88	84	81	83	85	87	88	90	91	92	93	94
97	93	90	86	88	89	91	92	94	95	96	97	98
103	100	96	92	94	96	98	99	101	102	103	104	105
110	106	102	98	100	101	103	104	106	107	108	109	110
116	113	109	105	107	109	111	112	114	115	116	117	118
123	119	115	111	113	115	117	118	120	121	122	123	124
131	126	122	118	121	123	125	126	128	129	130	131	132
141	134	130	125	127	129	131	132	134	135	136	137	138
155	145	137	133	136	138	140	141	143	144	145	146	147
169	159	148	141	144	146	148	149	151	152	153	154	155
184	173	163	152	155	157	159	160	162	163	164	165	166

200	189	178	167	156	148	143	138	134	129	124	120	115
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	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
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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
54	0	0	0	0	0	0	0	0	0	0	0	0
58	55	0	0	0	0	0	0	0	0	0	0	0
63	60	56	0	0	0	0	0	0	0	0	0	0
68	65	61	58	0	0	0	0	0	0	0	0	0
73	70	66	63	59	0	0	0	0	0	0	0	0
79	75	72	68	64	61	0	0	0	0	0	0	0
85	81	77	73	70	66	62	0	0	0	0	0	0
91	87	83	79	75	71	68	64	0	0	0	0	0
97	93	89	85	81	77	73	69	65	0	0	0	0
103	99	95	91	87	83	79	75	71	67	0	0	0
110	106	102	98	94	89	85	81	77	73	69	0	0
117	113	109	104	100	96	92	87	83	79	75	70	0
124	120	116	111	107	103	98	94	90	85	81	76	72
132	128	123	119	114	110	105	101	96	92	87	83	78
143	135	131	126	122	117	112	108	103	99	94	89	85
157	146	139	134	129	125	120	115	111	106	101	96	92
172	161	150	142	137	133	128	123	118	113	108	104	99
187	176	165	154	146	141	136	131	126	121	116	111	106
203	192	180	169	158	149	144	139	134	129	124	119	114

Station	Unit	Capacity	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
BR	BR1	101	0	0	0	0	0	441	454	590	616	785
BR	BR2	167	0	0	0	0	0	729	751	975	1,018	1,299
BR	BR3	416	0	0	0	0	0	1,816	1,870	2,430	2,536	3,235
CR	CR4	155	258	840	1,124	1,095	1,216	1,960	1,949	1,644	1,927	2,572
CR	CR5	168	279	910	1,219	1,187	1,318	2,124	2,112	1,782	2,089	2,788
CR	CR6	240	399	1,300	1,741	1,696	1,882	5,221	5,152	4,566	4,899	5,799
GH	GH1	475	0	0	0	0	0	5,620	5,988	6,566	7,371	8,085
GH	GH2	484	0	0	0	0	0	5,727	6,101	6,691	7,510	8,238
GH	GH3	480	0	0	0	0	0	5,680	6,051	6,635	7,448	8,170
GH	GH4	479	0	0	0	0	0	5,668	6,038	6,622	7,433	8,153
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
TC	TC2	549	0	0	0	0	0	2,817	2,961	3,114	3,176	3,240
TY	TY3	71										
	BR Landfill Phase 2 Savings		0	0	0	0	0	0	0	828	908	1,960
	BR Landfill Phase 3 Savings		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
	CR Landfill Capital Savings		936	3,049	4,083	3,979	4,416	4,938	4,772	3,579	4,464	6,617
	CR Landfill O&M Savings		0	0	0	0	0	2,181	2,307	2,393	2,537	2,726
	CR6 Stator Rewind Savings		0	0	0	0	0	2,187	2,135	2,020	1,914	1,816
	GH Landfill Capital Savings		0	0	0	0	0	61	188	1,083	2,805	4,044
	GH Landfill O&M Savings		0	0	0	0	0	22,633	23,991	25,431	26,957	28,601
	TC Landfill Capital Savings		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

\$000

2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
787	789	1,035	1,054	1,357	1,337	1,319	1,301	1,285	1,267	1,122	410	385
1,301	1,305	1,711	1,743	2,245	2,211	2,180	2,151	2,124	2,095	1,855	678	636
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
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
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
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
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
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
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
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
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
3,304	3,371	3,438	3,507	3,577	3,648	3,721	3,796	7,687	11,809	11,888	17,709	17,206
1,870	1,782	1,697	1,613	1,531	1,451	1,372	1,294	1,215	1,123	156	138	120
0	0	1,638	1,745	3,767	3,594	3,426	3,261	3,101	2,943	2,789	2,638	2,487
3,461	3,564	3,671	3,781	3,895	4,012	4,132	4,256	4,384	4,515	4,651		
6,353	4,493	4,170	4,023	1,844	2,496	2,513	2,483	2,455	2,429	1,631	1,345	1,123
2,944	3,121	3,308	3,507	3,717	3,925	4,061	4,305	4,563	4,837	5,128	5,230	5,335
1,719	1,621	1,524	1,427	1,329	1,232	1,158	1,106	1,055	1,004	952	901	850
4,399	4,388	4,387	6,672	11,397	16,206	18,397	18,341	18,358	17,892	16,784	15,709	15,118
30,979	32,838	34,808	36,897	39,110	41,457	43,944	44,668	47,348	50,189	53,201	56,393	59,776
0	0	0	0	0	0	0	0	6,478	13,344	13,344	23,088	22,094
5,610	5,722	5,836	5,953	6,072	6,194	6,318	6,444	6,573	6,704	6,838	6,975	7,115

	2034	2035	2036	2037	2038	2039	2040
	360	331	54	46	38	30	23
	595	547	89	76	63	50	39
	1,482	1,363	222	189	157	124	97
	1,748	1,719	1,692	1,708	1,727	1,747	1,771
	1,895	1,864	1,834	1,851	1,872	1,894	1,919
	2,777	2,662	2,620	2,645	2,674	2,705	2,742
	19,372	20,254	21,186	21,692	2,492	1,854	1,700
	19,739	20,637	21,587	22,103	2,539	1,889	1,733
	19,576	20,467	21,409	21,921	2,518	1,874	1,718
	19,535	20,424	21,364	21,875	2,513	1,870	1,715
	11,666	11,343	11,031	10,731	10,442	10,162	9,886
	16,723	16,259	15,812	15,382	14,967	14,567	14,170
	101	83	64	46	28	9	0
	2,336	2,158	301	265	230	194	159
	908	695	485	430	384	338	303
	5,441	5,550	5,661	5,774	5,890	6,008	6,128
	70	0	0	0	0	0	0
	14,860	14,617	14,352	12,126	9,906	7,329	6,705
	63,363	67,165	71,194	75,466	155	158	161
	21,132	20,199	19,293	18,412	17,554	16,717	15,883
	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
BR	BR1	101	0	0	0	553	743	703	668	635	606	577
BR	BR2	167	0	0	0	915	1,228	1,163	1,104	1,050	1,002	954
BR	BR3	416	0	0	0	2,279	3,060	2,897	2,749	2,616	2,496	2,377
CR	CR4	155	0	0	0	980	1,582	1,494	1,413	1,339	1,269	1,201
CR	CR5	168	0	0	0	1,062	1,715	1,619	1,532	1,451	1,376	1,302
CR	CR6	240	0	0	0	1,518	2,449	2,313	2,188	2,073	1,966	1,860
GH	GH1	475	0	0	0	1,462	1,954	1,856	1,767	1,686	1,611	1,540
GH	GH2	484	0	0	0	1,489	1,991	1,891	1,800	1,718	1,642	1,569
GH	GH3	480	0	0	0	1,477	1,975	1,876	1,786	1,703	1,628	1,556
GH	GH4	479	0	0	0	1,474	1,971	1,872	1,782	1,700	1,625	1,553
GR	GR3	68	0	0	0	586	837	792	751	713	679	645
GR	GR4	95	0	0	0	819	1,169	1,106	1,049	996	948	901
MC	MC1	303	0	0	0	1,215	1,774	1,682	1,598	1,521	1,449	1,380
MC	MC2	301	0	0	0	1,207	1,762	1,671	1,588	1,511	1,440	1,371
MC	MC3	391	0	0	0	1,568	2,289	2,171	2,063	1,963	1,870	1,781
MC	MC4	477	0	0	0	1,913	2,792	2,648	2,516	2,394	2,281	2,172
TC	TC1	383	0	0	0	770	1,008	958	912	871	833	797
TC	TC2	549	0	0	0	1,104	1,445	1,373	1,307	1,248	1,194	1,142
TY	TY3	71	0	0	0	586	837	792	751	713	679	645
	BRWATER		0	0	0	3,747	5,032	4,763	4,521	4,302	4,104	3,908
	CRWATER		0	0	0	3,560	5,746	5,427	5,134	4,863	4,611	4,362
	MCWATER		0	0	0	5,902	8,617	8,173	7,765	7,389	7,040	6,704
	TCWATER		0	0	0	1,874	2,453	2,331	2,220	2,119	2,026	1,938
	GHWATER		0	0	0	5,902	7,892	7,495	7,135	6,806	6,505	6,217
	GRWATER		0	0	0	1,405	2,006	1,898	1,799	1,709	1,627	1,546

\$000

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
548	519	491	462	433	413	403	393	382	372	361	351	340	
907	859	811	764	716	684	666	649	632	615	597	580	563	
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	
1,132	1,064	996	927	859	806	770	735	699	663	627	591	0	
1,227	1,153	1,079	1,005	931	874	835	796	757	718	679	640	0	
1,754	1,647	1,541	1,435	1,329	1,249	1,193	1,137	1,082	1,026	970	915	0	
1,468	1,397	1,325	1,254	1,183	1,111	1,062	1,035	1,008	982	955	928	901	
1,496	1,423	1,350	1,278	1,205	1,132	1,082	1,055	1,028	1,000	973	946	918	
1,484	1,411	1,339	1,267	1,195	1,123	1,073	1,046	1,019	992	965	938	911	
1,481	1,409	1,337	1,265	1,193	1,121	1,071	1,044	1,017	990	963	936	909	
611	577	544	510	476	452	438	423	409	395	380	366	352	
854	807	759	712	665	631	611	591	571	551	531	511	491	
1,311	1,242	1,173	1,103	1,034	965	915	882	850	818	786	754	722	
1,302	1,234	1,165	1,096	1,027	959	908	877	845	813	781	749	717	
1,692	1,602	1,513	1,424	1,335	1,245	1,180	1,139	1,097	1,056	1,015	973	932	
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	
760	724	688	652	616	579	555	542	529	517	504	491	479	
1,090	1,038	986	934	882	830	795	777	759	741	723	704	686	
611	577	544	510	476	452	438	423	409	395	380	366	352	
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	
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	
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	
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	
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	
1,465	1,384	1,303	1,222	1,141	1,083	1,049	1,015	980	946	912	877	843	

2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
330	320	309	299	288	278	267	257	247	236	226	215	205
546	528	511	494	477	459	442	425	408	390	373	356	339
1,359	1,316	1,273	1,230	1,187	1,144	1,101	1,058	1,016	973	930	887	844
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	0	0	0	0	0	0	0	0	0	0	0
875	848	821	794	767	741	714	687	660	634	607	580	553
891	864	837	809	782	755	727	700	673	646	618	591	564
884	857	830	803	776	748	721	694	667	640	613	586	559
882	855	828	801	774	747	720	693	666	639	612	585	558
337	323	309	294	280	266	251	237	0	0	0	0	0
471	451	431	411	391	371	351	331	0	0	0	0	0
690	658	626	594	562	530	0	0	0	0	0	0	0
686	654	622	590	558	526	0	0	0	0	0	0	0
891	849	808	766	725	684	0	0	0	0	0	0	0
1,086	1,036	986	935	885	834	0	0	0	0	0	0	0
466	453	441	428	415	403	390	377	364	352	339	326	314
668	650	632	613	595	577	559	541	522	504	486	468	450
337	323	309	294	280	266	251	237	0	0	0	0	0
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
0	0	0	0	0	0	0	0	0	0	0	0	0
3,353	3,197	3,041	2,886	2,730	2,574	0	0	0	0	0	0	0
1,134	1,103	1,072	1,041	1,010	979	949	918	887	856	825	794	763
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
809	774	740	706	671	637	603	568	0	0	0	0	0

	Delta NPVRR \$M Install Controls / (Retire)
Tyrone 3	(67)
Brown 3	(133)
Cane Run 6	(217)
Brown 1-2	(444)
Cane Run 4-5	(499)
Green River 3-4	(267)
Ghent 1-4	(469)
Trimble County 1	(89)
Mill Creek 3-4	(170)
Mill Creek 1-2	(191)

Cumulative Difference in Revenue Requirements

Install Controls vs. Retire/Replace Capacity



Retirement Savings (Deltas)	Capital	O&M	Total
Retire TY	-22	-3	-26
Retire TY and GR3	-13	-50	-62
Retire TY GR3 and BR3	-98	-174	-272
Retire TY GR3 and CR4	-46	-140	-186
Retire TY GR3 CR4 and CR6	-84	-118	-202
Retire TY GR3 CR4 CR6 and BR1-2	-63	-129	-192
Retire TY GR3 and CR	-50	-149	-199
Retire TY GR3 CR and GH3	-203	-145	-348
Retire TY GR3 CR and GH1	-201	-210	-411
Retire TY GR and CR	-18	-100	-118
Retire TY GR CR and MC4	-105	-201	-306
Retire TY GR CR and TC1	-68	-203	-271
Retire TY GR CR and GH4	-203	-141	-343
Retire TY GR CR and MC3	-86	-201	-287
Retire TY GR CR and GH2	-205	-156	-361
Retire TY GR CR and MC1-2	-133	-325	-457

Revenue Requirement Deltas	Prod Cost	Capital	Total	Check
Retire TY	1	-69	-67	0
Retire TY and GR3	-74	-59	-133	0
Retire TY GR3 and BR3	-9	-208	-217	0
Retire TY GR3 and CR4	-94	-350	-444	0
Retire TY GR3 CR4 and CR6	-3	-496	-499	0
Retire TY GR3 CR4 CR6 and BR1-2	28	-296	-267	0
Retire TY GR3 and CR	-99	-370	-469	0
Retire TY GR3 CR and GH3	298	-387	-89	0
Retire TY GR3 CR and GH1	203	-373	-170	0
Retire TY GR and CR	-106	-85	-191	0
Retire TY GR CR and MC4	277	-522	-245	0
Retire TY GR CR and TC1	284	-185	98	0
Retire TY GR CR and GH4	231	-376	-145	0
Retire TY GR CR and MC3	219	-316	-97	0
Retire TY GR CR and GH2	365	-365	0	0
Retire TY GR CR and MC1-2	374	-799	-424	0

2038										
2039	SCCT(1)						SCCT(1)			
2040		SCCT(1)	SCCT(1)					SCCT(1)		
30 Yr PVRR (\$B)	23.6	23.7	23.8	24.7	24.2	24.8	25.5	25.3	26.6	26.6

10 11 12 13 14 15 16

TY GR CR MC4 TY GR CR IC1 TY GR CR GH4 TY GR CR MC3 TY GR CR GH2 TY GR CR MC1-2

3x1C(1) 3x1C(2) 3x1C(2) 3x1C(2) 3x1C(2) 3x1C(2) 3x1C(2)

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SCCT(1)

SCCT(1)

SCCT(1)	SCCT(1)	SCCT(1)	SCCT(1)
25.4	26.9	26.7	26.6
	26.9	27.0	27.0
			27.5

Breakeven RR by Year (\$M)

Year \$	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>
TY	-67	-72	-77	-82	-87	-93	-100	-106	-113	-121
GR3	-133	-142	-151	-161	-172	-184	-196	-209	-223	-238
BR3	-217	-232	-247	-264	-282	-301	-321	-342	-365	-390
CR4	-444	-474	-506	-540	-576	-615	-656	-700	-747	-797
CR6	-499	-532	-568	-606	-647	-690	-736	-786	-839	-895
BR1-2	-267	-285	-305	-325	-347	-370	-395	-421	-450	-480
CR5	-469	-501	-535	-570	-609	-650	-693	-740	-789	-842
GH3	-89	-95	-101	-108	-116	-123	-132	-140	-150	-160
GH1	-170	-182	-194	-207	-221	-236	-251	-268	-286	-306
GR4	-191	-204	-218	-232	-248	-264	-282	-301	-321	-343
MC4	-245	-262	-279	-298	-318	-339	-362	-386	-412	-440
TC1	98	105	112	120	128	136	145	155	166	177
GH4	-145	-155	-166	-177	-189	-201	-215	-229	-245	-261
MC3	-97	-103	-110	-117	-125	-134	-142	-152	-162	-173
GH2	0	0	0	0	0	0	0	0	0	0
MC1-2	-424	-453	-483	-516	-550	-587	-627	-669	-714	-762

Breakeven Year

	<u>Must Op Thru</u>
BR3	2019
BR1-2	2021
GH3	2020
GH1	2021
MC4	2023
TC1	2018
GH4	2018
MC3	2021
GH2	2018
MC1-2	2024

Station	Unit	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
BR	BR1FFP 0	0	238	3,127	7,278	12,105	12,775	12,123	11,534	10,999	10,472
BR	BR1SAM 0	0	0	0	231	521	550	522	497	474	452
BR	BR2FFP 0	0	252	3,379	7,865	13,414	13,865	13,156	12,514	11,931	11,357
BR	BR2SAM 0	0	0	0	231	534	553	525	499	476	453
BR	BR3FFP 0	0	0	204	2,854	7,595	13,437	14,120	13,404	12,757	12,171
GH	GH1FFP 0	0	64	4,332	10,157	17,736	19,154	18,156	17,246	16,412	15,591
GH	GH1SAM 0	0	122	562	1,006	1,964	2,121	2,010	1,909	1,817	1,726
GH	GH2FFP 0	0	0	2,787	7,280	15,016	18,298	17,569	16,777	16,056	15,369
GH	GH2SAM 0	0	11	724	984	935	891	851	814	779	744
GH	GH3FFP 0	0	0	0	3,571	8,804	18,270	21,813	20,853	19,901	19,030
GH	GH3SAM 0	0	115	565	1,578	1,935	1,853	1,769	1,691	1,618	1,544
GH	GH4FFP 0	0	0	0	2,843	7,668	14,952	21,319	20,238	19,257	18,361
GH	GH4SAM 0	0	122	527	974	1,948	1,967	1,872	1,786	1,707	1,631
MC	MC1FGD 0	0	0	2,360	7,268	12,372	21,934	23,856	22,601	21,453	20,399
MC	MC1FFP 0	0	0	1,271	5,238	9,364	17,796	19,361	18,343	17,414	16,559
MC	MC1SAM 0	0	0	0	42	560	1,131	1,232	1,168	1,109	1,055
MC	MC2FGD 0	0	0	2,361	7,270	12,377	23,214	24,770	23,450	22,238	21,119
MC	MC2FFP 0	0	0	1,215	5,051	9,134	18,426	19,666	18,620	17,659	16,772
MC	MC2SAM 0	0	0	0	42	560	1,197	1,279	1,211	1,149	1,092
MC	MC3FGDU 0	0	0	646	3,668	6,975	9,472	9,135	8,699	8,295	7,908
MC	MC3FGDR 0	0	0	0	0	39	175	207	197	187	179
MC	MC3FFP 0	0	0	0	3,730	8,326	13,896	18,276	17,601	16,757	15,977
MC	MC3SAM 0	0	0	734	1,992	2,100	1,997	1,901	1,813	1,728	1,642
MC	MC4FGD 0	0	379	6,987	15,193	21,072	28,573	27,555	26,231	25,008	23,834
MC	MC4SCR 0	0	105	667	724	688	655	625	596	566	537
MC	MC4FFP 0	0	377	5,055	10,178	14,629	19,836	19,129	18,210	17,361	16,546
MC	MC4SAM 0	0	0	0	578	1,620	2,201	2,123	2,022	1,929	1,839
TC	TC1FFP 0	0	0	0	2,200	5,745	11,967	15,834	15,223	14,502	13,838
CR	CR4FGD 0	0	394	3,222	13,574	27,295	25,773	24,370	23,071	21,861	20,666
CR	CR4SCR 0	64	390	2,395	6,163	10,786	10,183	9,627	9,112	8,633	8,160
CR	CR4FF 0	0	280	1,715	3,329	5,526	5,216	4,930	4,666	4,421	4,178
CR	CR4PAC 0	0	0	0	235	386	365	345	327	310	293
CR	CR4LIME 0	0	0	0	259	427	403	381	361	342	323

CR	CR5	CR5FGD	0	359	3,311	14,658	29,304	27,663	26,148	24,742	23,429	22,132
CR	CR5	CR5SCR	63	388	2,719	6,475	11,557	10,908	10,308	9,752	9,234	8,721
CR	CR5	CR5FF	0	300	1,823	3,531	5,992	5,654	5,343	5,054	4,785	4,519
CR	CR5	CR5PAC	0	0	0	251	423	399	378	357	338	320
CR	CR5	CR5LIME	0	0	0	278	468	441	417	395	374	353
CR	CR6	CR6FGD	0	346	3,887	18,407	35,115	33,170	31,385	29,739	28,213	26,706
CR	CR6	CR6SCR	79	1,294	4,201	8,457	14,206	13,414	12,689	12,019	11,399	10,787
CR	CR6	CR6FF	0	394	2,364	4,540	7,252	6,848	6,477	6,136	5,819	5,507
CR	CR6	CR6PAC	0	0	0	352	558	527	499	473	448	424
CR	CR6	CR6LIME	0	0	0	391	619	585	553	525	498	471
GR	GR3	GR3FF	0	0	1,323	4,035	5,553	5,254	4,983	4,739	4,516	4,297
GR	GR3	GR3PAC	0	0	0	112	154	145	138	131	125	119
GR	GR4	GR4SFF	0	0	1,885	5,750	8,517	8,050	7,626	7,237	6,881	6,529
GR	GR4	GR4PAC	0	0	0	160	235	223	211	200	190	181

2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
9,946	9,420	8,894	8,368	7,842	7,483	7,291	7,099	6,908	6,716	6,525	6,333	6,141
429	407	384	362	339	324	315	307	299	291	282	274	266
10,783	10,210	9,636	9,062	8,488	8,095	7,881	7,668	7,455	7,242	7,028	6,815	6,602
431	408	385	362	340	324	315	307	298	290	281	273	264
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
14,769	13,948	13,127	12,305	11,484	10,897	10,545	10,193	9,841	9,489	9,137	8,785	8,433
1,635	1,544	1,453	1,362	1,271	1,206	1,167	1,128	1,089	1,050	1,011	972	933
14,684	13,998	13,313	12,627	11,942	11,257	10,791	10,556	10,330	10,104	9,878	9,652	9,425
709	674	639	605	570	546	535	523	511	500	488	476	464
18,199	17,369	16,538	15,708	14,877	14,047	13,216	12,647	12,344	12,047	11,750	11,452	11,155
1,471	1,397	1,324	1,250	1,177	1,126	1,099	1,073	1,047	1,020	994	967	941
17,541	16,757	15,973	15,188	14,404	13,619	12,835	12,050	11,513	11,223	10,932	10,642	10,352
1,555	1,479	1,403	1,328	1,252	1,176	1,124	1,096	1,068	1,039	1,011	983	955
19,360	18,320	17,281	16,242	15,203	14,164	13,412	12,949	12,485	12,022	11,558	11,095	10,631
15,717	14,875	14,032	13,190	12,348	11,506	10,896	10,520	10,143	9,767	9,390	9,013	8,637
1,001	948	895	841	788	735	696	672	648	624	600	576	552
20,015	18,911	17,806	16,702	15,598	14,494	13,677	13,148	12,618	12,088	11,558	11,028	10,499
15,896	15,021	14,145	13,270	12,395	11,519	10,871	10,450	10,029	9,608	9,187	8,766	8,344
1,035	978	922	865	808	752	710	682	655	627	600	572	545
7,522	7,135	6,748	6,362	5,975	5,589	5,303	5,124	4,950	4,777	4,603	4,429	4,256
170	162	154	145	137	128	121	115	111	107	104	100	96
15,228	14,480	13,732	12,985	12,237	11,489	10,742	10,190	9,844	9,510	9,175	8,841	8,506
1,557	1,472	1,387	1,302	1,217	1,155	1,116	1,077	1,039	1,000	961	923	884
22,662	21,491	20,319	19,147	17,976	16,804	15,940	15,402	14,880	14,358	13,836	13,314	12,792
508	479	449	420	399	386	372	359	346	332	319	306	292
15,733	14,919	14,106	13,293	12,479	11,666	11,066	10,692	10,330	9,968	9,605	9,243	8,881
1,749	1,660	1,570	1,480	1,391	1,301	1,235	1,193	1,153	1,112	1,072	1,031	991
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
19,471	18,276	17,081	15,886	14,691	13,773	13,130	12,488	11,845	11,203	10,560	0	0
7,687	7,214	6,740	6,267	5,794	5,431	5,177	4,924	4,671	4,417	4,164	0	0
3,935	3,692	3,450	3,207	2,964	2,778	2,648	2,519	2,389	2,260	2,130	0	0
276	259	242	225	208	195	186	177	168	159	150	0	0
305	286	267	249	230	216	206	195	185	175	165	0	0

20,835	19,538	18,241	16,944	15,647	14,641	13,924	13,207	12,490	11,774	0	0	0
8,208	7,696	7,183	6,670	6,158	5,760	5,478	5,196	4,914	4,632	0	0	0
4,253	3,987	3,721	3,455	3,189	2,983	2,837	2,691	2,545	2,399	0	0	0
301	282	263	245	226	212	201	191	180	170	0	0	0
333	312	291	271	250	234	222	211	199	188	0	0	0
25,199	23,692	22,185	20,678	19,171	18,033	17,265	16,496	15,727	14,959	14,190	13,421	12,653
10,175	9,563	8,951	8,339	7,727	7,266	6,956	6,646	6,337	6,027	5,717	5,408	5,098
5,194	4,882	4,569	4,257	3,944	3,709	3,551	3,393	3,235	3,077	2,919	2,761	2,602
401	377	353	329	305	287	275	262	250	238	226	213	201
445	418	391	365	338	318	305	291	278	264	250	237	223
4,078	3,859	3,640	3,421	3,202	3,050	2,967	2,884	2,800	2,717	2,634	2,550	2,467
113	107	101	95	89	85	82	80	78	75	73	71	68
6,177	5,825	5,473	5,122	4,770	4,515	4,356	4,198	4,040	3,881	3,723	3,565	3,407
171	161	152	142	132	125	121	116	112	108	103	99	94

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2010 2011 2012 2013 2014 2015 2016 2017 2018

Retirement Cost

All Units

0 0 0 0 0 0 2100 0 0

2% Escalation Rate

Unit Costs (\$000)

BR	3,816	4,811	3,969	4,049	4,130	4,212	4,296	4,382
BR	6,633	7,160	7,253	7,398	7,546	7,697	7,851	8,008
BR	15,885	20,876	14,904	15,202	15,506	15,816	16,132	16,455
CR	14,372	9,218	12,029	12,269	12,515	12,765	13,020	13,281
CR	11,842	9,889	12,791	13,047	13,308	13,574	13,845	14,122
CR	10,666	11,619	10,173	10,376	10,584	10,795	11,011	11,231
GH	17,829	19,141	17,966	18,325	18,691	19,065	19,447	19,835
GH	12,225	18,498	13,429	13,698	13,972	14,251	14,536	14,827
GH	17,961	13,501	12,475	12,724	12,979	13,238	13,503	13,773
GH	11,533	13,496	12,105	12,347	12,594	12,846	13,103	13,365
GR	4,270	5,792	4,360	4,447	4,536	4,627	4,719	4,813
GR	7,338	6,924	8,633	8,805	8,982	9,161	9,344	9,531
MC	11,892	17,333	12,669	12,923	13,181	13,445	13,714	13,988
MC	16,179	11,941	15,201	15,505	15,815	16,131	16,454	16,783
MC	18,313	14,238	17,221	17,566	17,917	18,275	18,641	19,014
MC	16,531	18,981	17,245	17,590	17,942	18,300	18,666	19,040
TC	17,205	15,170	17,403	17,751	18,106	18,468	18,837	19,214
TY	410	416	418	427	435	444	453	462

2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
0	0	0	0	0	0	0	0	0	0	0	0
4,470	4,559	4,651	4,744	4,838	4,935	5,034	5,135	5,237	5,342	5,449	5,558
8,168	8,331	8,498	8,668	8,841	9,018	9,199	9,383	9,570	9,762	9,957	10,156
16,784	17,120	17,462	17,811	18,167	18,531	18,901	19,279	19,665	20,058	20,460	20,869
13,546	13,817	14,094	14,375	14,663	14,956	15,255	15,560	15,872	16,189	16,513	16,843
14,405	14,693	14,987	15,286	15,592	15,904	16,222	16,546	16,877	17,215	17,559	17,910
11,456	11,685	11,919	12,157	12,400	12,648	12,901	13,159	13,423	13,691	13,965	14,244
20,232	20,637	21,050	21,471	21,900	22,338	22,785	23,240	23,705	24,179	24,663	25,156
15,124	15,426	15,735	16,049	16,370	16,698	17,032	17,372	17,720	18,074	18,436	18,804
14,049	14,330	14,616	14,909	15,207	15,511	15,821	16,138	16,460	16,790	17,125	17,468
13,632	13,905	14,183	14,467	14,756	15,051	15,352	15,659	15,973	16,292	16,618	16,950
4,910	5,008	5,108	5,210	5,314	5,421	5,529	5,640	5,753	5,868	5,985	6,105
9,722	9,916	10,115	10,317	10,523	10,734	10,949	11,167	11,391	11,619	11,851	12,088
14,268	14,553	14,844	15,141	15,444	15,753	16,068	16,389	16,717	17,051	17,392	17,740
17,118	17,461	17,810	18,166	18,530	18,900	19,278	19,664	20,057	20,458	20,867	21,285
19,394	19,782	20,177	20,581	20,993	21,412	21,841	22,278	22,723	23,178	23,641	24,114
19,421	19,809	20,205	20,609	21,021	21,442	21,871	22,308	22,754	23,209	23,674	24,147
19,598	19,990	20,390	20,798	21,214	21,638	22,071	22,512	22,962	23,422	23,890	24,368
471	480	490	500	510	520	530	541	552	563	574	586

2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
0	0	0	0	0	0	0	0	0	0
5,669	5,782	5,898	6,016	6,136	6,259	6,384	6,512	6,642	6,775
10,359	10,566	10,778	10,993	11,213	11,437	11,666	11,899	12,137	12,380
21,286	21,712	22,146	22,589	23,041	23,502	23,972	24,451	24,940	25,439
17,180	17,524	17,874	18,232	18,596	18,968	19,347	19,734	20,129	20,532
18,269	18,634	19,007	19,387	19,775	20,170	20,573	20,985	21,405	21,833
14,529	14,820	15,116	15,418	15,727	16,041	16,362	16,689	17,023	17,364
25,659	26,172	26,696	27,230	27,774	28,330	28,897	29,474	30,064	30,665
19,181	19,564	19,955	20,355	20,762	21,177	21,600	22,032	22,473	22,923
17,817	18,174	18,537	18,908	19,286	19,672	20,065	20,466	20,876	21,293
17,289	17,635	17,988	18,347	18,714	19,089	19,470	19,860	20,257	20,662
6,227	6,351	6,478	6,608	6,740	6,875	7,012	7,153	7,296	7,442
12,330	12,576	12,828	13,084	13,346	13,613	13,885	14,163	14,446	14,735
18,095	18,457	18,826	19,202	19,586	19,978	20,378	20,785	21,201	21,625
21,710	22,145	22,587	23,039	23,500	23,970	24,449	24,938	25,437	25,946
24,596	25,088	25,590	26,102	26,624	27,156	27,699	28,253	28,818	29,395
24,630	25,123	25,625	26,138	26,660	27,194	27,737	28,292	28,858	29,435
24,855	25,352	25,859	26,377	26,904	27,442	27,991	28,551	29,122	29,704
597	609	622	634	647	660	673	686	700	714

Escalation Rate: 2% Year \$: 2010 Fixed O&M \$/Yr

	Month	Year Equipment	2011	2012	2013	2014	2015	2016	2017
BR	BR1	2014 PJFF/PAC	0	0	0	598,882	610,860	623,077	635,538
BR	BR1	2014 SAM Mitigation	0	0	0	78,540	137,333	140,079	142,881
BR	BR2	2014 PJFF/PAC	0	0	0	714,168	728,451	743,020	757,880
BR	BR2	2014 SAM Mitigation	0	0	0	134,640	137,333	140,079	142,881
BR	BR3	2015 PJFF/PAC	0	0	0	0	1,067,560	1,088,911	1,110,689
GH	GH1	2014 PJFF/PAC	0	0	0	1,293,082	1,318,944	1,345,322	1,372,229
GH	GH1	2014 SCR Turn-Down	0	0	0	0	0	0	0
GH	GH1	2013 SAM Mitigation	0	0	0	4,899	0	0	0
GH	GH2	2014 PJFF/PAC	0	0	0	777,600	1,586,304	1,618,030	1,650,391
GH	GH2	2012 Sorbent Injection	0	8,064	98,700	100,574	102,687	104,741	106,836
GH	GH3	2015 PJFF/PAC	0	0	0	0	652,436	1,330,969	1,357,589
GH	GH3	2013 SCR Turn-Down	0	0	0	0	0	0	0
GH	GH3	2013 SAM Mitigation	0	0	0	0	0	0	0
GH	GH4	2015 PJFF/PAC	0	0	0	0	631,870	1,289,014	1,314,795
GH	GH4	2014 SCR Turn-Down	0	0	0	0	0	0	0
GH	GH4	2013 SAM Mitigation	0	0	0	0	0	0	0
MC	MC1	2015 Combined 1&2 FGD	0	0	0	0	-238,642	-219,636	-200,250
MC	MC1	2015 PJFF/PAC	0	0	0	0	1,446,222	1,475,147	1,504,650
MC	MC1	2015 SAM Mitigation	0	0	0	0	22,100	38,643	39,416
MC	MC2	2015 Combined 1&2 FGD	0	0	0	0	186,506	205,512	224,899
MC	MC2	2015 PJFF/PAC	0	0	0	0	1,418,867	1,447,245	1,476,189
MC	MC2	2015 SAM Mitigation	0	0	0	0	25,257	38,643	39,416
MC	MC3	2014 FGD	0	0	0	0	0	0	0
MC	MC3	2015 PJFF/PAC	0	0	0	0	646,753	1,319,377	1,345,764
MC	MC3	2013 SAM Mitigation	0	0	24,068	36,824	37,560	38,312	39,078
MC	MC3	2013 SCR Turn-Down	0	0	0	0	0	0	0
MC	MC4	2014 FGD	0	0	0	0	0	0	0
MC	MC4	2014 PJFF/PAC	0	0	0	743,376	1,516,487	1,546,817	1,577,754
MC	MC4	2014 SAM Mitigation	0	0	0	3,095	37,885	38,643	39,416
MC	MC4	2014 SCR Turn-Down	0	0	0	0	0	0	0
TC	TC1	2015 PJFF/PAC	0	0	0	0	493,761	1,007,273	1,027,418

CR	CR4	1	2016 SCR	1,871,000	0	0	0	0	0	0	2,107,050	2,149,191
CR	CR4	1	2016 WFGD		0	0	0	0	0	0	0	0
CR	CR4	1	2016 PJFF	1,191,000	0	0	0	0	0	0	1,341,259	1,368,085
CR	CR4	1	2016 SAM Mitigation	174,000	0	0	0	0	0	0	195,952	199,871
CR	CR4	1	2016 PAC Injection	169,000	0	0	0	0	0	0	190,321	194,128
CR	CR5	1	2016 SCR	1,993,000	0	0	0	0	0	0	2,244,442	2,289,331
CR	CR5	1	2016 WFGD		0	0	0	0	0	0	0	0
CR	CR5	1	2016 PJFF	1,251,000	0	0	0	0	0	0	1,408,829	1,437,006
CR	CR5	1	2016 SAM Mitigation	177,000	0	0	0	0	0	0	199,331	203,317
CR	CR5	1	2016 PAC Injection	172,000	0	0	0	0	0	0	193,700	197,574
CR	CR6	1	2016 SCR	2,392,000	0	0	0	0	0	0	2,693,781	2,747,656
CR	CR6	1	2016 WFGD		0	0	0	0	0	0	0	0
CR	CR6	1	2016 PJFF	1,632,000	0	0	0	0	0	0	1,837,897	1,874,655
CR	CR6	1	2016 SAM Mitigation	198,000	0	0	0	0	0	0	222,980	227,440
CR	CR6	1	2016 PAC Injection	191,000	0	0	0	0	0	0	215,097	219,399
GR	GR3	1	2016 SCR	943,000	0	0	0	0	0	0	1,061,971	1,083,211
GR	GR3	1	2016 CDS-FF	3,322,000	0	0	0	0	0	0	3,741,112	3,815,934
GR	GR3	1	2016 PAC Injection	141,000	0	0	0	0	0	0	158,789	161,965
GR	GR4	1	2016 SCR	1,284,000	0	0	0	0	0	0	1,445,993	1,474,912
GR	GR4	1	2016 CDS-FF	4,309,000	0	0	0	0	0	0	4,852,634	4,949,687
GR	GR4	1	2016 PAC Injection	150,000	0	0	0	0	0	0	168,924	172,303

<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>2028</u>	<u>2029</u>
648,249	661,214	674,439	687,927	701,686	715,720	730,034	744,635	759,527	774,718	790,212	806,016
145,739	148,653	151,627	154,659	157,752	160,907	164,125	167,408	170,756	174,171	177,655	181,208
773,038	788,499	804,269	820,354	836,761	853,496	870,566	887,978	905,737	923,852	942,329	961,175
145,739	148,653	151,627	154,659	157,752	160,907	164,125	167,408	170,756	174,171	177,655	181,208
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	1,381,002	1,408,622
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	1,706,194	1,740,318
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
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	2,052,054	2,093,095
108,973	111,152	113,375	115,643	117,956	120,315	122,721	125,175	127,679	130,232	132,837	135,494
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	1,687,991	1,721,751
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
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	1,634,782	1,667,477
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
-180,476	-160,306	-139,733	-118,749	-121,124	-123,546	-126,017	-128,537	-131,108	-133,730	-136,405	-139,133
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	1,870,843	1,908,260
40,204	41,008	41,828	42,665	43,518	44,388	45,276	46,182	47,105	48,047	49,008	49,989
244,673	264,842	285,415	306,400	312,528	318,778	325,154	331,657	338,290	345,056	351,957	358,996
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	1,835,456	1,872,165
40,204	41,008	41,828	42,665	43,518	44,388	45,276	46,182	47,105	48,047	49,008	49,989
0	0	0	0	0	0	0	0	0	0	0	0
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	1,673,288	1,706,754
39,859	40,657	41,470	42,299	43,145	44,008	44,888	45,786	46,702	47,636	48,588	49,560
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
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	1,961,738	2,000,973
40,204	41,008	41,828	42,665	43,518	44,388	45,276	46,182	47,105	48,047	49,008	49,989
0	0	0	0	0	0	0	0	0	0	0	0
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	1,277,465	1,303,015

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	2,672,249	2,725,694
0	0	0	0	0	0	0	0	0	0	0	0
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	1,701,041	1,735,062
203,869	207,946	212,105	216,347	220,674	225,088	229,589	234,181	238,865	243,642	248,515	253,485
198,010	201,971	206,010	210,130	214,333	218,620	222,992	227,452	232,001	236,641	241,374	246,201
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	2,846,495	2,903,425
0	0	0	0	0	0	0	0	0	0	0	0
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	1,786,736	1,822,471
207,384	211,531	215,762	220,077	224,479	228,968	233,548	238,219	242,983	247,843	252,800	257,856
201,525	205,556	209,667	213,860	218,138	222,500	226,950	231,489	236,119	240,842	245,658	250,572
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	3,416,365	3,484,692
0	0	0	0	0	0	0	0	0	0	0	0
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	2,330,898	2,377,516
231,989	236,628	241,361	246,188	251,112	256,134	261,257	266,482	271,812	277,248	282,793	288,449
223,787	228,263	232,828	237,484	242,234	247,079	252,020	257,061	262,202	267,446	272,795	278,251
1,104,875	1,126,972	1,149,512	1,172,502	1,195,952	1,219,871	1,244,268	1,269,154	1,294,537	1,320,428	1,346,836	1,373,773
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	4,744,634	4,839,527
165,204	168,508	171,878	175,316	178,822	182,399	186,047	189,767	193,563	197,434	201,383	205,410
1,504,411	1,534,499	1,565,189	1,596,493	1,628,422	1,660,991	1,694,211	1,728,095	1,762,657	1,797,910	1,833,868	1,870,546
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	6,154,313	6,277,399
175,749	179,264	182,849	186,506	190,236	194,041	197,922	201,880	205,918	210,036	214,237	218,522

<u>2030</u>	<u>2031</u>	<u>2032</u>	<u>2033</u>	<u>2034</u>	<u>2035</u>	<u>2036</u>	<u>2037</u>	<u>2038</u>	<u>2039</u>	<u>2040</u>
822,137	838,580	855,351	872,458	889,907	907,705	925,860	944,377	963,264	982,530	1,002,180
184,832	188,529	192,299	196,145	200,068	204,069	208,151	212,314	216,560	220,891	225,309
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
184,832	188,529	192,299	196,145	200,068	204,069	208,151	212,314	216,560	220,891	225,309
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
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
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
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
138,204	140,968	143,787	146,663	149,596	152,588	155,640	158,753	161,928	165,166	168,470
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
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
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
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
-141,916	-144,754	-147,649	-150,602	-153,614	-156,686	-159,820	-163,017	-166,277	-169,602	-172,994
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
50,988	52,008	53,048	54,109	55,191	56,295	57,421	58,570	59,741	60,936	62,155
366,176	373,499	380,969	388,589	396,361	404,288	412,374	420,621	429,033	437,614	446,366
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
50,988	52,008	53,048	54,109	55,191	56,295	57,421	58,570	59,741	60,936	62,155
0	0	0	0	0	0	0	0	0	0	0
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
50,551	51,562	52,594	53,645	54,718	55,813	56,929	58,068	59,229	60,414	61,622
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
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
50,988	52,008	53,048	54,109	55,191	56,295	57,421	58,570	59,741	60,936	62,155
0	0	0	0	0	0	0	0	0	0	0
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

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
0	0	0	0	0	0	0	0	0	0	0
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
258,555	263,726	269,000	274,380	279,868	285,465	291,175	296,998	302,938	308,997	315,177
251,125	256,148	261,271	266,496	271,826	277,262	282,808	288,464	294,233	300,118	306,120
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
0	0	0	0	0	0	0	0	0	0	0
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
263,013	268,273	273,638	279,111	284,693	290,387	296,195	302,119	308,161	314,325	320,611
255,583	260,695	265,909	271,227	276,651	282,184	287,828	293,584	299,456	305,445	311,554
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
0	0	0	0	0	0	0	0	0	0	0
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
294,218	300,102	306,104	312,226	318,471	324,840	331,337	337,964	344,723	351,617	358,650
283,816	289,492	295,282	301,188	307,212	313,356	319,623	326,015	332,536	339,186	345,970
1,401,248	1,429,273	1,457,859	1,487,016	1,516,756	1,547,091	1,578,033	1,609,594	1,641,786	1,674,622	1,708,114
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
209,519	213,709	217,983	222,343	226,790	231,325	235,952	240,671	245,484	250,394	255,402
1,907,956	1,946,116	1,985,038	2,024,739	2,065,233	2,106,538	2,148,669	2,191,642	2,235,475	2,280,185	2,325,788
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
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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2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
931	1,008	1,085	1,163	1,241	1,320	1,399	1,479	1,560	1,642	1,724	1,807	1,891
1,539	1,667	1,794	1,922	2,052	2,182	2,313	2,446	2,579	2,714	2,850	2,988	3,126
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
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
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
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
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
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
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
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
553	598	643	689	734	780	825	871	918	964	1,011	1,057	1,104
772	836	899	962	1,026	1,089	1,153	1,217	1,282	1,347	1,412	1,477	1,543
4,487	4,862	5,229	5,592	5,956	6,320	6,686	7,053	7,421	7,790	8,160	8,531	8,903
4,458	4,830	5,194	5,555	5,916	6,279	6,642	7,007	7,372	7,739	8,106	8,475	8,845
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
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
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
2,207	2,394	2,579	2,762	2,948	3,136	3,325	3,517	3,710	3,906	4,104	4,304	4,506
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
266	246	231	221	211	200	190	180	169	0	0	0	0
293	272	252	237	226	216	205	195	184	174	0	0	0
321	300	279	259	243	232	221	210	200	189	178	0	0
350	329	307	286	265	249	238	227	216	205	194	182	0
380	358	337	315	293	272	255	244	232	221	210	198	187
412	390	367	345	323	301	279	262	250	238	227	215	203
445	422	399	377	354	331	308	286	268	256	244	232	220
482	456	433	409	386	363	339	316	293	275	263	250	238
522	494	468	444	420	396	372	348	324	300	282	269	257

567	535	506	479	455	430	406	381	357	332	307	289	276
360	581	548	519	491	466	441	416	391	365	340	315	296
	369	595	562	532	504	478	452	426	400	375	349	323
		378	610	576	545	516	490	463	437	410	384	358
			387	625	591	559	529	502	475	448	421	394
				397	641	605	573	542	514	487	459	431
					407	657	621	587	556	527	499	470
						417	673	636	602	570	540	511
							428	690	652	617	584	554
								438	708	668	632	599
									449	725	685	648
										461	743	702
											472	762
												484

1,361	1,276	1,191	1,128	1,089	1,049	1,010	970	931	891	851	812	772
1,483	1,395	1,308	1,221	1,157	1,116	1,075	1,035	994	954	913	873	832
1,610	1,520	1,430	1,341	1,251	1,185	1,144	1,102	1,061	1,019	978	936	895
1,742	1,650	1,558	1,466	1,374	1,282	1,215	1,173	1,130	1,087	1,045	1,002	960
1,879	1,785	1,691	1,597	1,503	1,409	1,314	1,245	1,202	1,158	1,115	1,071	1,027
2,023	1,926	1,830	1,733	1,637	1,540	1,444	1,347	1,277	1,232	1,187	1,142	1,098
2,176	2,073	1,975	1,876	1,777	1,678	1,579	1,480	1,381	1,309	1,263	1,217	1,171
2,344	2,231	2,125	2,024	1,922	1,821	1,720	1,618	1,517	1,415	1,341	1,294	1,247
2,529	2,403	2,286	2,178	2,075	1,971	1,867	1,763	1,659	1,555	1,451	1,375	1,327
2,733	2,592	2,463	2,344	2,233	2,126	2,020	1,913	1,807	1,700	1,594	1,487	1,409
1,919	2,801	2,657	2,524	2,402	2,289	2,180	2,070	1,961	1,852	1,743	1,634	1,524
	1,967	2,871	2,723	2,588	2,462	2,346	2,234	2,122	2,010	1,898	1,786	1,674
		2,016	2,943	2,792	2,652	2,524	2,405	2,290	2,175	2,060	1,946	1,831

2,066	3,017	2,861	2,719	2,587	2,465	2,347	2,230	2,112	1,994
	2,118	3,092	2,933	2,787	2,651	2,526	2,406	2,285	2,165
		2,171	3,170	3,006	2,856	2,718	2,589	2,466	2,342
			2,225	3,249	3,081	2,928	2,786	2,654	2,528
				2,281	3,330	3,158	3,001	2,855	2,721
					2,338	3,413	3,237	3,076	2,927
						2,396	3,499	3,318	3,153
							2,456	3,586	3,401
								2,518	3,676
									2,580

238	225	211	203	198	193	189	184	179	175	170	165	161
257	244	230	217	208	203	198	193	189	184	179	174	170
278	264	250	236	222	213	208	203	198	193	188	184	179
299	285	270	256	242	228	218	213	208	203	198	193	188
321	306	292	277	263	248	233	224	218	213	208	203	198
344	329	314	299	284	269	254	239	229	224	219	213	208
369	353	337	322	307	291	276	261	245	235	230	224	219
396	378	361	346	330	314	298	283	267	251	241	235	230
426	406	387	370	354	338	322	306	290	274	258	247	241
460	437	416	397	380	363	347	330	314	297	281	264	253
360	471	447	426	407	389	372	355	338	321	305	288	271
	369	483	459	437	417	399	381	364	347	329	312	295
		378	495	470	448	427	409	391	373	355	338	320
			387	507	482	459	438	419	401	383	364	346
				397	520	494	470	449	429	411	392	373
					407	494	506	482	460	440	421	402
						533	546	519	494	472	451	432
						417						

1,768	1,667	1,567	1,498	1,460	1,422	1,384	1,346	1,309	1,271	1,233	1,195	1,158
1,916	1,812	1,709	1,606	1,535	1,496	1,458	1,419	1,380	1,341	1,303	1,264	1,225
2,069	1,963	1,858	1,752	1,646	1,573	1,534	1,494	1,454	1,415	1,375	1,335	1,296
2,229	2,121	2,013	1,904	1,796	1,687	1,613	1,572	1,531	1,491	1,450	1,409	1,369
2,396	2,285	2,174	2,063	1,952	1,841	1,729	1,653	1,611	1,570	1,528	1,486	1,445
2,570	2,456	2,342	2,228	2,114	2,001	1,887	1,773	1,694	1,652	1,609	1,566	1,523
2,756	2,634	2,518	2,401	2,284	2,167	2,051	1,934	1,817	1,737	1,693	1,649	1,605
2,962	2,825	2,700	2,581	2,461	2,341	2,221	2,102	1,982	1,862	1,780	1,735	1,690
3,189	3,036	2,896	2,768	2,645	2,522	2,400	2,277	2,154	2,032	1,909	1,825	1,779
3,442	3,269	3,112	2,968	2,837	2,711	2,585	2,460	2,334	2,208	2,082	1,957	1,870
2,638	3,528	3,350	3,189	3,042	2,908	2,779	2,650	2,521	2,392	2,263	2,134	2,006
	2,704	3,616	3,434	3,269	3,119	2,981	2,848	2,716	2,584	2,452	2,320	2,188
		2,772	3,706	3,520	3,351	3,196	3,055	2,920	2,784	2,649	2,513	2,378
			2,841	3,799	3,608	3,435	3,276	3,131	2,993	2,854	2,715	2,576
				2,912	3,894	3,698	3,521	3,358	3,210	3,067	2,925	2,783
					2,985	3,991	3,791	3,609	3,442	3,290	3,144	2,998
						3,060	4,091	3,886	3,699	3,528	3,372	3,223
							3,136	4,193	3,983	3,791	3,617	3,456
								3,214	4,298	4,082	3,886	3,707
									3,295	4,406	4,184	3,983
										3,377	4,516	4,289

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263	250	237	224	212	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
283	270	256	243	230	217	0	0	0	0	0	0	0	0	0	0	0	0	0	0
303	290	276	263	249	236	222	0	0	0	0	0	0	0	0	0	0	0	0	0
331	311	297	283	269	256	242	228	228	0	0	0	0	0	0	0	0	0	0	0
366	339	319	305	290	276	262	248	248	234	0	0	0	0	0	0	0	0	0	0
403	376	348	327	312	298	283	268	268	254	239	0	0	0	0	0	0	0	0	0
442	413	385	357	335	320	305	290	290	275	260	245	0	0	0	0	0	0	0	0
482	453	424	395	365	343	328	313	313	297	282	267	252	0	0	0	0	0	0	0
524	494	464	434	404	375	352	336	336	320	305	289	273	258	0	0	0	0	0	0
568	537	506	476	445	415	384	361	361	345	329	312	296	280	0	0	0	0	0	0
614	582	551	519	488	456	425	394	394	370	353	337	320	304	0	0	0	0	0	0
664	629	596	564	532	500	468	436	436	403	379	362	345	328	0	0	0	0	0	0
720	681	645	611	578	545	512	479	479	446	414	388	371	354	0	0	0	0	0	0
781	738	698	661	627	593	559	525	525	491	458	424	398	380	0	0	0	0	0	0
496	800	756	715	677	642	608	573	573	538	504	469	434	408	0	0	0	0	0	0
	508	820	775	733	694	658	623	623	587	552	516	481	445	0	0	0	0	0	0
		521	841	794	751	712	675	675	638	602	566	529	493	0	0	0	0	0	0
			534	862	814	770	730	730	692	654	617	580	542	0	0	0	0	0	0
				547	884	835	789	789	748	709	671	633	594	0	0	0	0	0	0
					561	906	855	855	809	766	727	688	648	0	0	0	0	0	0
						575	928	928	877	829	786	745	705	0	0	0	0	0	0
733	693	654	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
792	751	711	670	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
853	811	770	728	687	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
917	874	832	789	747	704	0	0	0	0	0	0	0	0	0	0	0	0	0	0
984	940	896	853	809	765	722	0	0	0	0	0	0	0	0	0	0	0	0	0
1,053	1,008	963	919	874	829	784	740	740	0	0	0	0	0	0	0	0	0	0	0
1,125	1,079	1,033	987	942	896	850	804	804	758	0	0	0	0	0	0	0	0	0	0
1,200	1,153	1,106	1,059	1,012	965	918	871	871	824	777	0	0	0	0	0	0	0	0	0
1,278	1,230	1,182	1,134	1,086	1,037	989	941	941	893	845	797	0	0	0	0	0	0	0	0
1,360	1,310	1,261	1,212	1,162	1,113	1,063	1,014	1,014	965	915	866	816	0	0	0	0	0	0	0
1,444	1,394	1,343	1,292	1,242	1,191	1,141	1,090	1,090	1,039	989	938	887	837	0	0	0	0	0	0
1,562	1,480	1,429	1,377	1,325	1,273	1,221	1,169	1,169	1,117	1,065	1,013	962	910	0	0	0	0	0	0
1,716	1,601	1,518	1,464	1,411	1,358	1,305	1,252	1,252	1,198	1,145	1,092	1,039	986	0	0	0	0	0	0

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
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
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
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
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
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
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
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
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
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
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
	2,711	3,958	3,754	3,567	3,394	3,234	3,080	2,925	2,771	2,617	2,462	2,308
		2,779	4,057	3,848	3,656	3,479	3,315	3,157	2,998	2,840	2,682	2,524
			2,848	4,159	3,944	3,748	3,566	3,398	3,236	3,073	2,911	2,749
				2,920	4,263	4,043	3,841	3,655	3,483	3,316	3,150	2,984
					2,993	4,369	4,144	3,937	3,746	3,570	3,399	3,229
						3,067	4,478	4,248	4,036	3,840	3,659	3,484
156	152	147	142	138	133	128	124	119	114	110	105	101
165	160	155	151	146	141	136	132	127	122	117	113	108
174	169	164	159	154	149	145	140	135	130	125	120	115
183	178	173	168	163	158	153	148	143	138	133	128	123
193	188	183	178	172	167	162	157	152	147	142	137	131
203	198	192	187	182	177	171	166	161	156	150	145	140
213	208	203	197	192	187	181	176	170	165	160	154	149
224	219	213	208	202	197	191	186	180	175	169	164	158
235	230	224	219	213	207	202	196	190	185	179	173	168
247	241	236	230	224	218	212	207	201	195	189	183	178
259	253	247	241	236	230	224	218	212	206	200	194	188
277	266	260	254	248	241	235	229	223	217	211	205	199
302	284	272	266	260	254	247	241	235	229	223	216	210
328	310	292	279	273	266	260	254	247	241	234	228	222
355	336	317	299	286	280	273	267	260	253	247	240	234
383	364	345	325	306	293	287	280	273	266	260	253	246
412	392	373	353	334	314	301	294	287	280	273	266	259

442	422	402	382	362	342	322	308	301	294	287	280	273
474	453	433	412	392	371	350	330	316	309	301	294	287
508	486	465	444	423	401	380	359	338	324	316	309	302
546	521	498	476	455	433	411	390	368	347	332	324	317
587	559	534	511	488	466	444	422	400	377	355	340	332
633	602	573	547	523	501	478	455	432	410	387	364	349
496	649	617	588	561	536	513	490	466	443	420	396	373
	508	665	632	602	575	550	526	502	478	454	430	406
		521	682	648	617	589	564	539	515	490	466	441
			534	699	664	633	604	578	553	527	502	477
				547	717	681	648	619	592	566	541	515
					561	735	698	665	634	607	580	554
						575	753	715	681	650	622	595
1,120	1,082	1,044	1,007	969	931	893	856	818	780	742	704	667
1,187	1,148	1,109	1,070	1,032	993	954	916	877	838	800	761	722
1,256	1,216	1,177	1,137	1,097	1,058	1,018	978	939	899	859	819	780
1,328	1,287	1,247	1,206	1,165	1,125	1,084	1,043	1,003	962	921	881	840
1,403	1,361	1,320	1,278	1,236	1,194	1,153	1,111	1,069	1,028	986	944	903
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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

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
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
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
	3,728	4,984	4,734	4,507	4,299	4,109	3,927	3,744	3,562	3,380	3,198	3,016
		3,821	5,109	4,852	4,619	4,406	4,211	4,025	3,838	3,651	3,465	3,278
		3,917	3,917	5,237	4,974	4,735	4,517	4,317	4,125	3,934	3,743	3,551
				4,014	5,368	5,098	4,853	4,629	4,425	4,228	4,032	3,836
					4,115	5,502	5,226	4,974	4,745	4,535	4,334	4,133
						4,218	5,639	5,356	5,099	4,864	4,649	4,443
253	244	235	226	218	209	200	191	182	173	165	156	147
268	259	250	241	232	223	214	205	196	187	178	169	160
284	275	266	256	247	238	229	219	210	201	191	182	173
301	291	282	272	263	253	244	234	225	215	206	196	187
318	308	299	289	279	269	260	250	240	230	221	211	201
336	326	316	306	296	286	276	266	256	246	236	226	216
355	344	334	324	314	303	293	283	273	263	252	242	232
374	364	353	343	332	322	311	301	290	280	269	259	248
394	383	373	362	351	340	330	319	308	297	287	276	265
415	404	393	382	371	360	349	338	327	316	305	294	283
437	425	414	403	391	380	369	358	346	335	324	312	301
459	448	436	424	413	401	390	378	367	355	343	332	320
493	471	459	447	435	423	411	399	388	376	364	352	340
539	505	482	470	458	446	434	422	409	397	385	373	361
587	552	518	495	482	470	457	445	432	420	407	395	382
637	602	566	531	507	494	481	469	456	443	430	417	405
689	653	617	580	544	520	506	493	480	467	454	441	428
743	706	669	632	595	558	533	519	506	492	479	465	452
800	762	724	686	648	610	572	546	532	518	505	491	477
860	820	781	742	703	664	625	586	559	545	531	517	503
926	881	841	801	761	721	681	641	601	573	559	545	530
1,000	949	903	862	821	780	739	698	657	616	588	573	558
1,083	1,025	973	926	883	841	799	757	715	673	631	603	587
827	1,110	1,050	997	949	905	862	819	776	733	690	647	618
	847	1,138	1,077	1,022	973	928	884	840	795	751	707	663

46	41	0	0	0	274	259	245	233	222	211
49	44	42	0	0	0	0	0	0	0	0
53	48	46	43	0	0	0	0	0	0	0
57	52	49	47	44	0	0	0	0	0	0
61	56	53	51	48	45	0	0	0	0	0
66	60	57	55	52	49	0	0	0	0	0
70	65	62	59	56	53	47	0	0	0	0
75	69	66	63	60	57	52	49	0	0	0
80	74	71	68	65	62	59	56	53	0	0
85	79	76	73	70	66	63	60	57	54	0
90	84	81	78	74	71	68	65	62	59	52
96	89	86	83	80	76	73	70	67	63	57
104	95	92	88	85	82	78	75	72	68	62
114	101	97	94	90	87	84	80	77	73	67
125	109	103	100	96	93	89	86	82	79	72
136	120	112	106	102	99	95	91	88	84	77
148	131	123	114	108	105	101	97	94	90	83
160	143	134	126	117	111	107	104	100	96	89
172	155	146	138	129	120	114	110	106	102	95
186	168	159	150	141	132	123	117	113	109	101
201	181	172	163	154	145	135	126	120	116	107
217	195	186	176	167	158	148	139	129	123	114
235	211	200	190	181	171	161	152	142	133	121
165	228	216	205	195	185	175	165	156	146	129
	247	234	221	210	200	190	180	170	160	139
	174	253	239	227	215	205	195	184	174	153
		178	259	245	233	221	210	199	189	168
			182	266	252	238	226	215	204	183
			187	187	273	258	244	232	221	198
					192	279	264	250	238	215

1,010	956	901	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1,091	1,035	980	924	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1,176	1,119	1,061	1,004	947	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1,264	1,205	1,147	1,088	1,029	970	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1,356	1,296	1,235	1,175	1,115	1,055	995	0	0	0	0	0	0	0	0	0	0	0	0	0
1,451	1,390	1,328	1,266	1,205	1,143	1,081	1,020	0	0	0	0	0	0	0	0	0	0	0	0
1,551	1,488	1,424	1,361	1,298	1,235	1,172	1,108	1,045	0	0	0	0	0	0	0	0	0	0	0
1,655	1,590	1,525	1,460	1,395	1,330	1,266	1,201	1,136	1,071	0	0	0	0	0	0	0	0	0	0
1,762	1,696	1,629	1,563	1,497	1,430	1,364	1,297	1,231	1,164	1,098	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0
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	1,185	1,115	1,045	0	0	0	0
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	1,285	1,215	1,145	0	0	0	0
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	1,393	1,318	1,243	0	0	0	0
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	1,504	1,427	1,350	0	0	0	0
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	1,621	1,542	1,463	0	0	0	0
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	1,742	1,661	1,580	0	0	0	0
96	91	87	82	77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
103	98	94	89	84	79	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111	106	101	96	91	86	81	0	0	0	0	0	0	0	0	0	0	0	0	0
118	113	108	103	98	93	88	83	0	0	0	0	0	0	0	0	0	0	0	0
126	121	116	111	106	101	96	91	85	0	0	0	0	0	0	0	0	0	0	0
135	130	124	119	114	109	103	98	93	88	0	0	0	0	0	0	0	0	0	0
144	138	133	127	122	117	111	106	101	95	90	0	0	0	0	0	0	0	0	0
153	147	142	136	131	125	120	114	109	103	98	92	0	0	0	0	0	0	0	0
162	156	151	145	139	134	128	123	117	111	106	100	94	0	0	0	0	0	0	0
172	166	160	155	149	143	137	131	126	120	114	108	102	0	0	0	0	0	0	0
182	176	170	164	158	152	147	141	135	129	123	117	111	0	0	0	0	0	0	0
193	187	181	175	168	162	156	150	144	138	132	126	120	0	0	0	0	0	0	0
204	198	191	185	179	173	166	160	154	148	141	135	129	0	0	0	0	0	0	0
215	209	203	196	190	183	177	171	164	158	151	145	139	0	0	0	0	0	0	0
227	221	214	208	201	194	188	181	175	168	162	155	149	0	0	0	0	0	0	0
240	233	226	219	213	206	199	193	186	179	173	166	159	0	0	0	0	0	0	0
253	246	239	232	225	218	211	204	197	191	184	177	170	0	0	0	0	0	0	0

266	259	252	245	238	231	224	217	209	202	195	188	181
280	273	265	258	251	244	236	229	222	215	207	200	193
294	287	279	272	265	257	250	242	235	227	220	213	205
309	302	294	286	279	271	264	256	248	241	233	226	218
325	317	309	301	293	286	278	270	262	255	247	239	231
341	333	325	317	309	301	293	285	277	269	261	253	245
357	349	341	333	325	317	308	300	292	284	276	267	259
382	366	358	350	341	333	324	316	308	299	291	283	274
417	392	376	367	358	350	341	333	324	315	307	298	290
452	427	402	385	376	367	358	350	341	332	323	314	306
489	463	438	412	395	385	376	367	358	349	340	331	322
528	501	475	449	422	404	395	386	377	367	358	349	340
568	541	514	487	460	433	414	405	396	386	377	367	358
629	0	0	0	0	0	0	0	0	0	0	0	0
683	645	0	0	0	0	0	0	0	0	0	0	0
740	700	661	0	0	0	0	0	0	0	0	0	0
799	759	718	677	0	0	0	0	0	0	0	0	0
861	819	778	736	694	0	0	0	0	0	0	0	0
925	882	840	797	754	712	0	0	0	0	0	0	0
992	948	905	861	817	773	729	0	0	0	0	0	0
1,062	1,017	972	927	882	837	792	748	0	0	0	0	0
1,134	1,088	1,042	996	950	904	858	812	766	0	0	0	0
1,210	1,163	1,116	1,068	1,021	974	927	880	833	785	0	0	0
1,289	1,240	1,192	1,143	1,095	1,047	998	950	902	853	805	0	0
1,370	1,321	1,271	1,222	1,172	1,123	1,073	1,023	974	924	875	825	0
1,455	1,405	1,354	1,303	1,252	1,201	1,151	1,100	1,049	998	947	897	846
1,544	1,492	1,440	1,388	1,336	1,283	1,231	1,179	1,127	1,075	1,023	971	919
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
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
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
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
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
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
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

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
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
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
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
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
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
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
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
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
0	0	0	0	0	0	0	0	0	0	0	0	0
151	0	0	0	0	0	0	0	0	0	0	0	0
164	154	0	0	0	0	0	0	0	0	0	0	0
177	168	158	0	0	0	0	0	0	0	0	0	0
191	182	172	162	0	0	0	0	0	0	0	0	0
206	196	186	176	166	0	0	0	0	0	0	0	0
222	211	201	191	181	170	0	0	0	0	0	0	0
238	227	217	206	196	185	175	0	0	0	0	0	0
254	244	233	222	211	201	190	179	0	0	0	0	0
272	261	250	239	228	217	206	195	183	0	0	0	0
290	278	267	256	245	233	222	211	199	188	0	0	0
309	297	285	274	262	251	239	228	216	204	193	0	0
328	316	304	293	281	269	257	245	233	221	209	198	0
349	336	324	312	300	288	276	263	251	239	227	215	203
370	357	345	332	320	307	295	282	270	257	245	233	220
392	379	366	353	341	328	315	302	290	277	264	251	238
415	402	388	375	362	349	336	323	310	297	284	271	257
438	425	412	398	385	371	358	344	331	318	304	291	277
463	449	436	422	408	394	381	367	353	339	326	312	298
489	475	461	447	432	418	404	390	376	362	348	334	320
516	501	487	472	458	443	429	414	400	385	371	356	342
543	529	514	499	484	469	454	440	425	410	395	380	365
572	557	542	527	511	496	481	466	451	435	420	405	390
602	586	571	555	540	524	509	493	477	462	446	431	415
633	617	601	585	569	553	537	521	505	489	473	457	441

680	649	632	616	600	583	567	551	534	518	502	485	469
743	697	665	648	632	615	598	581	564	548	531	514	497
809	762	714	682	664	647	630	613	596	579	561	544	527
878	829	781	732	699	681	663	646	628	611	593	575	558
950	900	850	800	750	716	698	680	662	644	626	608	590
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	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
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0	0	0	0	0	0	0	0	0	0	0	0	0
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0	0	0	0	0	0	0	0	0	0	0	0	0
47	0	0	0	0	0	0	0	0	0	0	0	0
51	48	0	0	0	0	0	0	0	0	0	0	0
56	53	50	0	0	0	0	0	0	0	0	0	0
60	57	54	51	0	0	0	0	0	0	0	0	0
65	62	59	55	52	0	0	0	0	0	0	0	0
70	66	63	60	57	54	0	0	0	0	0	0	0
75	71	68	65	61	58	55	0	0	0	0	0	0
80	77	73	70	66	63	60	56	0	0	0	0	0
86	82	79	75	72	68	65	61	58	0	0	0	0
91	88	84	81	77	73	70	66	63	59	0	0	0
97	93	90	86	83	79	75	72	68	64	61	0	0
103	100	96	92	88	85	81	77	73	70	66	62	0
110	106	102	98	94	91	87	83	79	75	71	67	64
116	113	109	105	101	97	93	89	85	81	77	73	69
123	119	115	111	107	103	99	95	91	87	83	79	75
131	126	122	118	114	110	106	102	98	93	89	85	81
141	134	130	125	121	117	113	108	104	100	96	91	87
155	145	137	133	129	124	120	115	111	107	102	98	94
169	159	148	141	136	132	127	123	118	114	109	105	101
184	173	163	152	144	140	135	130	126	121	117	112	108

200	0	189	178	167	156	148	143	138	134	129	124	120	115
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
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
0	0	0	0	0	0	0	0	0	0	0	0	0	0
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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
54	0	0	0	0	0	0	0	0	0	0	0	0	0
58	55	0	0	0	0	0	0	0	0	0	0	0	0
63	60	56	56	0	0	0	0	0	0	0	0	0	0
68	65	61	61	58	0	0	0	0	0	0	0	0	0
73	70	66	66	63	59	0	0	0	0	0	0	0	0
79	75	72	72	68	64	61	0	0	0	0	0	0	0
85	81	77	77	73	70	66	62	0	0	0	0	0	0
91	87	83	83	79	75	71	68	64	0	0	0	0	0
97	93	89	89	85	81	77	73	69	65	0	0	0	0
103	99	95	95	91	87	83	79	75	71	67	0	0	0
110	106	102	102	98	94	89	85	81	77	73	69	0	0
117	113	109	109	104	100	96	92	87	83	79	75	70	0
124	120	116	116	111	107	103	98	94	90	85	81	76	72
132	128	123	123	119	114	110	105	101	96	92	87	83	78
143	135	131	131	126	122	117	112	108	103	99	94	89	85
157	146	139	139	134	129	125	120	115	111	106	101	96	92
172	161	150	150	142	137	133	128	123	118	113	108	104	99
187	176	165	165	154	146	141	136	131	126	121	116	111	106
203	192	180	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
BR	BR1	101	0	0	0	0	0	441	454	590	616	785
BR	BR2	167	0	0	0	0	0	729	751	975	1,018	1,299
BR	BR3	416	0	0	0	0	0	1,816	1,870	2,430	2,536	3,235
CR	CR4	155	258	840	1,124	1,095	1,216	1,960	1,949	1,644	1,927	2,572
CR	CR5	168	279	910	1,219	1,187	1,318	2,124	2,112	1,782	2,089	2,788
CR	CR6	240	399	1,300	1,741	1,696	1,882	5,221	5,152	4,566	4,899	5,799
GH	GH1	475	0	0	0	0	0	5,620	5,988	6,566	7,371	8,085
GH	GH2	484	0	0	0	0	0	5,727	6,101	6,691	7,510	8,238
GH	GH3	480	0	0	0	0	0	5,680	6,051	6,635	7,448	8,170
GH	GH4	479	0	0	0	0	0	5,668	6,038	6,622	7,433	8,153
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
TC	TC2	549	0	0	0	0	0	2,817	2,961	3,114	3,176	3,240
TY	TY3	71										
	BR Landfill Phase 2 Savings		0	0	0	0	0	0	0	828	908	1,960
	BR Landfill Phase 3 Savings		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
	CR Landfill Capital Savings		936	3,049	4,083	3,979	4,416	4,938	4,772	3,579	4,464	6,617
	CR Landfill O&M Savings		0	0	0	0	0	2,181	2,307	2,393	2,537	2,726
	CR6 Stator Rewind Savings		0	0	0	0	0	2,187	2,135	2,020	1,914	1,816
	GH Landfill Capital Savings		0	0	0	0	0	61	188	1,083	2,805	4,044
	GH Landfill O&M Savings		0	0	0	0	0	22,633	23,991	25,431	26,957	28,601
	TC Landfill Capital Savings		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

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
	787	789	1,035	1,054	1,357	1,337	1,319	1,301	1,285	1,267	1,122	410	385
	1,301	1,305	1,711	1,743	2,245	2,211	2,180	2,151	2,124	2,095	1,855	678	636
	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
	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
	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
	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
	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
	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
	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
	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
	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
	3,304	3,371	3,438	3,507	3,577	3,648	3,721	3,796	7,687	11,809	11,888	17,709	17,206
	1,870	1,782	1,697	1,613	1,531	1,451	1,372	1,294	1,215	1,123	156	138	120
	0	0	1,638	1,745	3,767	3,594	3,426	3,261	3,101	2,943	2,789	2,638	2,487
	3,461	3,564	3,671	3,781	3,895	4,012	4,132	4,256	4,384	4,515	4,651		
	6,353	4,493	4,170	4,023	1,844	2,496	2,513	2,483	2,455	2,429	1,631	1,345	1,123
	2,944	3,121	3,308	3,507	3,717	3,925	4,061	4,305	4,563	4,837	5,128	5,230	5,335
	1,719	1,621	1,524	1,427	1,329	1,232	1,158	1,106	1,055	1,004	952	901	850
	4,399	4,388	4,387	6,672	11,397	16,206	18,397	18,341	18,358	17,892	16,784	15,709	15,118
	30,979	32,838	34,808	36,897	39,110	41,457	43,944	44,668	47,348	50,189	53,201	56,393	59,776
	0	0	0	0	0	0	0	0	6,478	13,344	13,344	23,088	22,094
	5,610	5,722	5,836	5,953	6,072	6,194	6,318	6,444	6,573	6,704	6,838	6,975	7,115

	2034	2035	2036	2037	2038	2039	2040
	2034	2035	2036	2037	2038	2039	2040
	360	331	54	46	38	30	23
	595	547	89	76	63	50	39
	1,482	1,363	222	189	157	124	97
	1,748	1,719	1,692	1,708	1,727	1,747	1,771
	1,895	1,864	1,834	1,851	1,872	1,894	1,919
	2,777	2,662	2,620	2,645	2,674	2,705	2,742
	19,372	20,254	21,186	21,692	2,492	1,854	1,700
	19,739	20,637	21,587	22,103	2,539	1,889	1,733
	19,576	20,467	21,409	21,921	2,518	1,874	1,718
	19,535	20,424	21,364	21,875	2,513	1,870	1,715
	11,666	11,343	11,031	10,731	10,442	10,162	9,886
	16,723	16,259	15,812	15,382	14,967	14,567	14,170
	101	83	64	46	28	9	0
	2,336	2,158	301	265	230	194	159
	908	695	485	430	384	338	303
	5,441	5,550	5,661	5,774	5,890	6,008	6,128
	70	0	0	0	0	0	0
	14,860	14,617	14,352	12,126	9,906	7,329	6,705
	63,363	67,165	71,194	75,466	155	158	161
	21,132	20,199	19,293	18,412	17,554	16,717	15,883
	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
BR	BR1	101	0	0	0	553	743	703	668	635	606	577
BR	BR2	167	0	0	0	915	1,228	1,163	1,104	1,050	1,002	954
BR	BR3	416	0	0	0	2,279	3,060	2,897	2,749	2,616	2,496	2,377
CR	CR4	155	0	0	0	980	1,582	1,494	1,413	1,339	1,269	1,201
CR	CR5	168	0	0	0	1,062	1,715	1,619	1,532	1,451	1,376	1,302
CR	CR6	240	0	0	0	1,518	2,449	2,313	2,188	2,073	1,966	1,860
GH	GH1	475	0	0	0	1,462	1,954	1,856	1,767	1,686	1,611	1,540
GH	GH2	484	0	0	0	1,489	1,991	1,891	1,800	1,718	1,642	1,569
GH	GH3	480	0	0	0	1,477	1,975	1,876	1,786	1,703	1,628	1,556
GH	GH4	479	0	0	0	1,474	1,971	1,872	1,782	1,700	1,625	1,553
GR	GR3	68	0	0	0	586	837	792	751	713	679	645
GR	GR4	95	0	0	0	819	1,169	1,106	1,049	996	948	901
MC	MC1	303	0	0	0	1,215	1,774	1,682	1,598	1,521	1,449	1,380
MC	MC2	301	0	0	0	1,207	1,762	1,671	1,588	1,511	1,440	1,371
MC	MC3	391	0	0	0	1,568	2,289	2,171	2,063	1,963	1,870	1,781
MC	MC4	477	0	0	0	1,913	2,792	2,648	2,516	2,394	2,281	2,172
TC	TC1	383	0	0	0	770	1,008	958	912	871	833	797
TC	TC2	549	0	0	0	1,104	1,445	1,373	1,307	1,248	1,194	1,142
TY	TY3	71	0	0	0	586	837	792	751	713	679	645
	BRWATER		0	0	0	3,747	5,032	4,763	4,521	4,302	4,104	3,908
	CRWATER		0	0	0	3,560	5,746	5,427	5,134	4,863	4,611	4,362
	MCWATER		0	0	0	5,902	8,617	8,173	7,765	7,389	7,040	6,704
	TCWATER		0	0	0	1,874	2,453	2,331	2,220	2,119	2,026	1,938
	GHWATER		0	0	0	5,902	7,892	7,495	7,135	6,806	6,505	6,217
	GRWATER		0	0	0	1,405	2,006	1,898	1,799	1,709	1,627	1,546

2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
548	519	491	462	433	413	403	393	382	372	361	351	340
907	859	811	764	716	684	666	649	632	615	597	580	563
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
1,132	1,064	996	927	859	806	770	735	699	663	627	591	0
1,227	1,153	1,079	1,005	931	874	835	796	757	718	679	640	0
1,754	1,647	1,541	1,435	1,329	1,249	1,193	1,137	1,082	1,026	970	915	0
1,468	1,397	1,325	1,254	1,183	1,111	1,062	1,035	1,008	982	955	928	901
1,496	1,423	1,350	1,278	1,205	1,132	1,082	1,055	1,028	1,000	973	946	918
1,484	1,411	1,339	1,267	1,195	1,123	1,073	1,046	1,019	992	965	938	911
1,481	1,409	1,337	1,265	1,193	1,121	1,071	1,044	1,017	990	963	936	909
611	577	544	510	476	452	438	423	409	395	380	366	352
854	807	759	712	665	631	611	591	571	551	531	511	491
1,311	1,242	1,173	1,103	1,034	965	915	882	850	818	786	754	722
1,302	1,234	1,165	1,096	1,027	959	908	877	845	813	781	749	717
1,692	1,602	1,513	1,424	1,335	1,245	1,180	1,139	1,097	1,056	1,015	973	932
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
760	724	688	652	616	579	555	542	529	517	504	491	479
1,090	1,038	986	934	882	830	795	777	759	741	723	704	686
611	577	544	510	476	452	438	423	409	395	380	366	352
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
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
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
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
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
1,465	1,384	1,303	1,222	1,141	1,083	1,049	1,015	980	946	912	877	843

2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046
330	320	309	299	288	278	267	257	247	236	226	215	205
546	528	511	494	477	459	442	425	408	390	373	356	339
1,359	1,316	1,273	1,230	1,187	1,144	1,101	1,058	1,016	973	930	887	844
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	0	0	0	0	0	0	0	0	0	0	0
875	848	821	794	767	741	714	687	660	634	607	580	553
891	864	837	809	782	755	727	700	673	646	618	591	564
884	857	830	803	776	748	721	694	667	640	613	586	559
882	855	828	801	774	747	720	693	666	639	612	585	558
337	323	309	294	280	266	251	237	0	0	0	0	0
471	451	431	411	391	371	351	331	0	0	0	0	0
690	658	626	594	562	530	0	0	0	0	0	0	0
686	654	622	590	558	526	0	0	0	0	0	0	0
891	849	808	766	725	684	0	0	0	0	0	0	0
1,086	1,036	986	935	885	834	0	0	0	0	0	0	0
466	453	441	428	415	403	390	377	364	352	339	326	314
668	650	632	613	595	577	559	541	522	504	486	468	450
337	323	309	294	280	266	251	237	0	0	0	0	0
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
0	0	0	0	0	0	0	0	0	0	0	0	0
3,353	3,197	3,041	2,886	2,730	2,574	0	0	0	0	0	0	0
1,134	1,103	1,072	1,041	1,010	979	949	918	887	856	825	794	763
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
809	774	740	706	671	637	603	568	0	0	0	0	0

