

DSM Program Plan

Residential Efficient Products - Estimated Participation, Mid Scenario

	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Standard CFL	46,875	45,625	43,750	41,250	-	-	-	-	-	-
LED	3,750	4,000	4,250	4,500	5,000	5,500	5,750	6,000	6,250	6,500
Specialty LED	1,875	1,900	1,925	1,950	1,975	2,000	2,025	2,050	2,075	2,100
ENERGY STAR® Clothes Washer	800	810	820	820	820	830	830	840	840	840
ENERGY STAR® Dehumidifier	200	210	220	220	220	230	230	240	240	240
ENERGY STAR® Air Purifier	50	60	70	80	80	90	90	100	100	100

Residential Efficient Products - Estimated Participation, High Scenario

	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Standard CFL	56,250	55,000	53,125	50,625	-	-	-	-	-	-
LED	4,375	4,625	4,875	5,125	5,250	5,750	6,000	6,250	6,500	6,750
Specialty LED	2,000	2,025	2,050	2,075	2,150	2,200	2,225	2,250	2,275	2,300
ENERGY STAR® Clothes Washer	850	860	870	870	870	880	880	890	890	890
ENERGY STAR® Dehumidifier	300	310	320	320	330	340	340	350	350	350
ENERGY STAR® Air Purifier	65	75	85	95	95	105	105	115	115	115

Projected Net Energy & Demand Savings

Residential Efficient Products - Projected Net Savings per Measure

Measure	Unit	Net kWh Savings per Unit	Net Summer Peak kW Savings per Unit	Net Winter Peak kW Savings per Unit
Standard CFL	per Bulb	17	0.002	0.002
LED	per Bulb	21	0.002	0.002
Specialty LED	per Bulb	31	0.003	0.003
ENERGY STAR® Clothes Washer	per Unit	88	0.011	0.011
ENERGY STAR® Dehumidifier	per Unit	127	0.029	0.029
ENERGY STAR® Air Purifier	per Unit	211	0.024	0.024

Residential Efficient Products - Incremental Net Energy Savings (MWh), Low Scenario

	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Standard CFL	5,654	5,480	5,219	4,871	-	-	-	-	-	-
LED	520	562	604	645	246	275	289	303	317	331
Specialty LED	214	217	220	223	227	230	233	236	239	242
ENERGY STAR® Clothes Washer	53	54	54	55	55	56	56	57	57	57
ENERGY STAR® Dehumidifier	13	14	15	17	17	18	18	19	19	19
ENERGY STAR® Air Purifier	7	9	12	14	14	16	16	18	18	18
Total	6,462	6,337	6,125	5,826	558	594	611	632	650	667

Residential Efficient Products - Incremental Net Energy Savings (MWh), Mid Scenario

	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Standard CFL	6,524	6,350	6,089	5,741	-	-	-	-	-	-
LED	624	666	708	749	282	310	324	338	352	366
Specialty LED	230	233	236	239	242	245	248	251	254	257
ENERGY STAR® Clothes Washer	70	71	72	72	72	73	73	74	74	74
ENERGY STAR® Dehumidifier	25	27	28	28	28	29	29	31	31	31
ENERGY STAR® Air Purifier	11	13	15	17	17	19	19	21	21	21
Total	7,484	7,359	7,147	6,846	640	676	693	714	731	749

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Residential Efficient Products - Incremental Net Energy Savings (MWh), High Scenario

	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Standard CFL	7,829	7,655	7,394	7,046	-	-	-	-	-	-
LED	728	770	812	853	296	324	338	352	366	380
Specialty LED	245	248	251	254	263	269	272	275	279	282
ENERGY STAR® Clothes Washer	75	76	76	76	76	77	77	78	78	78
ENERGY STAR® Dehumidifier	38	39	41	41	42	43	43	45	45	45
ENERGY STAR® Air Purifier	14	16	18	20	20	22	22	24	24	24
Total	8,929	8,804	8,592	8,291	697	736	753	774	792	809

Residential Efficient Products - Incremental Net Summer Peak Savings (kW), Low Scenario

	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Standard CFL	575.1	557.4	530.8	495.4	-	-	-	-	-	-
LED	52.9	57.2	61.4	65.6	25.1	27.9	29.4	30.8	32.2	33.7
Specialty LED	23.9	24.3	24.6	25.0	25.3	25.6	26.0	26.3	26.7	27.0
ENERGY STAR® Clothes Washer	6.8	6.9	7.0	7.1	7.1	7.2	7.2	7.4	7.4	7.4
ENERGY STAR® Dehumidifier	2.9	3.2	3.5	3.8	3.8	4.1	4.1	4.4	4.4	4.4
ENERGY STAR® Air Purifier	0.8	1.1	1.3	1.6	1.6	1.8	1.8	2.0	2.0	2.0
Total	662.5	650.0	628.7	598.5	62.8	66.7	68.5	70.9	72.7	74.4

Residential Efficient Products - Incremental Net Summer Peak Savings (kW), Mid Scenario

	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Standard CFL	663.5	645.8	619.3	583.9	-	-	-	-	-	-
LED	63.5	67.7	72.0	76.2	28.6	31.5	32.9	34.4	35.8	37.2
Specialty LED	25.6	26.0	26.3	26.7	27.0	27.4	27.7	28.0	28.4	28.7
ENERGY STAR® Clothes Washer	9.0	9.2	9.3	9.3	9.3	9.4	9.4	9.5	9.5	9.5
ENERGY STAR® Dehumidifier	5.8	6.1	6.4	6.4	6.4	6.7	6.7	7.0	7.0	7.0
ENERGY STAR® Air Purifier	1.2	1.4	1.7	1.9	1.9	2.2	2.2	2.4	2.4	2.4
Total	768.8	756.3	735.0	704.4	73.3	77.1	78.9	81.3	83.1	84.8

Residential Efficient Products - Incremental Net Summer Peak Savings (kW), High Scenario

	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Standard CFL	796.2	778.5	752.0	716.6	-	-	-	-	-	-
LED	74.1	78.3	82.6	86.8	30.1	32.9	34.4	35.8	37.2	38.7
Specialty LED	27.4	27.7	28.0	28.4	29.4	30.1	30.4	30.8	31.1	31.5
ENERGY STAR® Clothes Washer	9.6	9.7	9.8	9.8	9.8	10.0	10.0	10.1	10.1	10.1
ENERGY STAR® Dehumidifier	8.7	9.0	9.3	9.3	9.6	9.9	9.9	10.2	10.2	10.2
ENERGY STAR® Air Purifier	1.6	1.8	2.0	2.3	2.3	2.5	2.5	2.8	2.8	2.8
Total	917.6	905.1	883.8	853.2	81.2	85.4	87.2	89.6	91.4	93.1

Residential Efficient Products - Incremental Net Winter Peak Savings (kW), Low Scenario

	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Standard CFL	575.1	557.4	530.8	495.4	-	-	-	-	-	-
LED	52.9	57.2	61.4	65.6	25.1	27.9	29.4	30.8	32.2	33.7
Specialty LED	23.9	24.3	24.6	25.0	25.3	25.6	26.0	26.3	26.7	27.0
ENERGY STAR® Clothes Washer	6.8	6.9	7.0	7.1	7.1	7.2	7.2	7.4	7.4	7.4
ENERGY STAR® Dehumidifier	2.9	3.2	3.5	3.8	3.8	4.1	4.1	4.4	4.4	4.4
ENERGY STAR® Air Purifier	0.8	1.1	1.3	1.6	1.6	1.8	1.8	2.0	2.0	2.0
Total	662.5	650.0	628.7	598.5	62.8	66.7	68.5	70.9	72.7	74.4

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Residential Efficient Products - Incremental Net Winter Peak Savings (kW), Mid Scenario

	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Standard CFL	663.5	645.8	619.3	583.9	-	-	-	-	-	-
LED	63.5	67.7	72.0	76.2	28.6	31.5	32.9	34.4	35.8	37.2
Specialty LED	25.6	26.0	26.3	26.7	27.0	27.4	27.7	28.0	28.4	28.7
ENERGY STAR® Clothes Washer	9.0	9.2	9.3	9.3	9.3	9.4	9.4	9.5	9.5	9.5
ENERGY STAR® Dehumidifier	5.8	6.1	6.4	6.4	6.4	6.7	6.7	7.0	7.0	7.0
ENERGY STAR® Air Purifier	1.2	1.4	1.7	1.9	1.9	2.2	2.2	2.4	2.4	2.4
Total	768.8	756.3	735.0	704.4	73.3	77.1	78.9	81.3	83.1	84.8

Residential Efficient Products - Incremental Net Winter Peak Savings (kW), High Scenario

	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Standard CFL	796.2	778.5	752.0	716.6	-	-	-	-	-	-
LED	74.1	78.3	82.6	86.8	30.1	32.9	34.4	35.8	37.2	38.7
Specialty LED	27.4	27.7	28.0	28.4	29.4	30.1	30.4	30.8	31.1	31.5
ENERGY STAR® Clothes Washer	9.6	9.7	9.8	9.8	9.8	10.0	10.0	10.1	10.1	10.1
ENERGY STAR® Dehumidifier	8.7	9.0	9.3	9.3	9.6	9.9	9.9	10.2	10.2	10.2
ENERGY STAR® Air Purifier	1.6	1.8	2.0	2.3	2.3	2.5	2.5	2.8	2.8	2.8
Total	917.6	905.1	883.8	853.2	81.2	85.4	87.2	89.6	91.4	93.1

Projected Gross Energy & Demand Savings

Residential Efficient Products - Projected Gross Savings per Measure

	Unit	Gross kWh Savings per Unit	Gross Summer Peak kW Savings per Unit	Gross Winter Peak kW Savings per Unit
Standard CFL	per Bulb	22	0.002	0.002
LED	per Bulb	26	0.003	0.003
Specialty LED	per Bulb	39	0.004	0.004
ENERGY STAR® Clothes Washer	per Unit	111	0.014	0.014
ENERGY STAR® Dehumidifier	per Unit	161	0.037	0.037
ENERGY STAR® Air Purifier	per Unit	267	0.030	0.030

Residential Efficient Products - Incremental Gross Energy Savings (MWh), Low Scenario

	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Standard CFL	7,157	6,937	6,607	6,166	-	-	-	-	-	-
LED	659	711	764	817	312	348	365	383	401	419
Specialty LED	271	275	279	283	287	291	294	298	302	306
ENERGY STAR® Clothes Washer	67	68	69	70	70	71	71	72	72	72
ENERGY STAR® Dehumidifier	16	18	19	21	21	23	23	24	24	24
ENERGY STAR® Air Purifier	9	12	15	17	17	20	20	23	23	23
Total	8,179	8,021	7,753	7,374	707	752	774	801	822	844

Residential Efficient Products - Incremental Gross Energy Savings (MWh), Mid Scenario

	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Standard CFL	8,258	8,038	7,708	7,267	-	-	-	-	-	-
LED	790	843	896	948	356	392	410	428	446	463
Specialty LED	291	294	298	302	306	310	314	318	322	325
ENERGY STAR® Clothes Washer	89	90	91	91	91	92	92	93	93	93
ENERGY STAR® Dehumidifier	32	34	35	35	35	37	37	39	39	39
ENERGY STAR® Air Purifier	13	16	19	21	21	24	24	27	27	27
Total	9,474	9,316	9,047	8,666	810	855	877	904	926	948