

Existing DSM Program Measures									
Economic Potential – RIM									
Customer Class	Program Name	Measure Name	TRC	RIM	PCT	Summer (MW)	Winter (MW)	Energy (GWh)	Reason For Failure
Residential	NES/LIWAP	Heat Pump Tune Up	0.39	0.89	0.44	0	0	0	RIM and PCT
Residential	NES/LIWAP/RIP	Ceiling Insulation(R2 to R38)	7.31	1.27	5.73	96	46	151	
Residential	NES/LIWAP	CFL-13W	1.17	0.35	3.37	0	0	0	RIM
Residential	NES/LIWAP	CFL-23W	2.55	0.35	7.33	0	0	0	RIM and Payback<2
Residential	NES/LIWAP	Air Sealing-Infiltration Control	2.03	1.13	1.79	135	35	173	
Residential	NES/LIWAP/RIP	Duct Repair	3.64	1.13	3.22	193	44	234	
Residential	NES/LIWAP	Faucet Aerator	11.91	0.50	23.79	0	0	0	RIM and Payback<2
Residential	NES/LIWAP	LED - 9W	3.02	0.37	8.14	0	0	0	RIM and Payback<2
Residential	NES/LIWAP	Low Flow Showerhead	18.89	0.48	39.40	0	0	0	RIM and Payback<2
Residential	NES	Hot Water Pipe Insulation	7.21	0.54	13.39	0	0	0	RIM and Payback<2
Residential	LIWAP	Energy Star Refrigerator	0.66	0.44	1.50	0	0	0	RIM
Residential	NES	Smart Power Strip	1.04	0.35	2.95	0	0	0	RIM and Payback<2
Residential	NES/LIWAP	Water Heater Blanket	0.51	0.43	1.17	0	0	0	RIM
Residential	RIP	Energy Star Windows	3.62	1.27	2.84	97	30	193	
Residential	LIWAP/RIP	15 SEER Air Source Heat Pump	1.50	1.22	1.23	65	121	150	
Residential	RIP	17 SEER Air Source Heat Pump	0.86	1.22	0.71	0	0	0	PCT
Residential	LIWAP/RIP	14 SEER ASHP from base electric resistance heating	3.50	1.19	2.94	0	110	169	
Residential	RIP	21 SEER ASHP from base electric resistance heating	1.00	1.22	0.82	0	0	0	PCT
Residential	EnergyWise	HVAC	9999	9999	9999	1,066	2,196	0	
Residential	EnergyWise	Water heater switches	9999	9999	9999	188	354	0	
Residential	EnergyWise	Pool pump switches	9999	9999	9999	181	76	0	
Commercial/Ind	Better Business	Ceiling Insulation(R2 to R38)	4.79	1.25	3.83	0	0	17	
Commercial/Ind	Better Business	High Efficiency Chiller (Water cooled-centrifugal, 200 tons)	5.55	1.17	4.76	3	0	8	
Commercial/Ind	Better Business	Chilled Water Controls Optimization	6.15	1.01	6.10	0	0	0	Payback<2
Commercial/Ind	Better Business	Cool Roof	0.18	1.47	0.12	0	0	0	PCT
Commercial/Ind	Better Business	Demand Controlled Ventilation	3.38	1.25	2.69	6	31	53	
Commercial/Ind	Better Business	Duct Sealing Repair	9.12	1.64	5.56	4	0	20	
Commercial/Ind	Better Business	HVAC tune-up	1.53	0.95	1.60	0	0	0	RIM
Commercial/Ind	Better Business	High Efficiency DX 135k- less than 240k BTU	1.51	1.18	1.28	4	0	10	
Commercial/Ind	Better Business	Retro-Commissioning	1.99	0.93	2.15	0	0	0	RIM
Commercial/Ind	Better Business	Energy Recovery Ventilation System (ERV)	1.63	4.05	0.40	0	0	0	PCT
Commercial/Ind	Better Business	Roof Insulation	0.66	1.25	0.53	0	0	0	PCT
Commercial/Ind	Better Business	Thermal Energy Storage	2.52	9999	2.21	30	9	-5	
Commercial/Ind	Better Business	High Efficiency PTAC	4.86	1.35	3.60	0	0	0	
Commercial/Ind	Better Business	High Efficiency PTHP	5.01	1.33	3.76	0	0	0	
Commercial/Ind	Better Business	HVAC tune-up_RTU	1.01	0.84	1.20	0	0	0	RIM
Commercial/Ind	Interruptible/Curtailable	Interruptible/Curtailable	9999.00	9999.00	9999.00	1,857	1,780	0	

Program Legend:
NES = Neighborhood Energy Saver Program
LIWAP = Low Income Weatherization Assistance Program
RIP = Residential Incentive Program

Note:

The Neighborhood Energy Saver and Low Income Weatherization programs are both low income programs. DEF typically provides some measures through these programs that have less than a 2 year payback and others that may not pass RIM. These measures are not included in goals. DEF evaluates these programs based on the overall cost effectiveness of the bundled measures.

Existing DSM Program Measures									
Economic Potential – TRC									
Customer Class	Program Name	Measure Name	TRC	RIM	PCT	Summer (MW)	Winter (MW)	Energy (GWh)	Reason For Failure
Residential	NES/LIWAP	Heat Pump Tune Up	0.39	0.89	0.44	0	0	0	TRC and PCT
Residential	NES/LIWAP/RIP	Ceiling Insulation(R2 to R38)	7.31	1.27	5.73	264	118	406	
Residential	NES/LIWAP	CFL-13W	1.17	0.35	3.37	12	12	131	
Residential	NES/LIWAP	CFL-23W	2.55	0.35	7.33	0	0	0	Payback<2
Residential	NES/LIWAP	Air Sealing-Infiltration Control	2.03	1.13	1.79	136	35	174	
Residential	NES/LIWAP/RIP	Duct Repair	3.64	1.13	3.22	201	50	247	
Residential	NES/LIWAP	Faucet Aerator	11.91	0.50	23.79	0	0	0	Payback<2
Residential	NES/LIWAP	LED - 9W	3.02	0.37	8.14	0	0	0	Payback<2
Residential	NES/LIWAP	Low Flow Showerhead	18.89	0.48	39.40	0	0	0	Payback<2
Residential	NES	Hot Water Pipe Insulation	7.21	0.54	13.39	0	0	0	Payback<2
Residential	LIWAP	Energy Star Refrigerator	0.66	0.44	1.50	0	0	0	TRC
Residential	NES	Smart Power Strip	1.04	0.35	2.95	0	0	0	Payback<2
Residential	NES/LIWAP	Water Heater Blanket	0.51	0.43	1.17	0	0	0	TRC
Residential	RIP	Energy Star Windows	3.62	1.27	2.84	96	31	192	
Residential	LIWAP/RIP	15 SEER Air Source Heat Pump	1.50	1.22	1.23	64	92	146	
Residential	RIP	17 SEER Air Source Heat Pump	0.86	1.22	0.71	0	0	0	TRC and PCT
Residential	LIWAP/RIP	14 SEER ASHP from base electric resistance heating	3.50	1.19	2.94	0	113	175	
Residential	RIP	21 SEER ASHP from base electric resistance heating	1.00	1.22	0.82	0	0	0	TRC and PCT
Residential	EnergyWise	HVAC	9999	9999	9999	1,066	2,196	0	
Residential	EnergyWise	Water heater switches	9999	9999	9999	188	354	0	
Residential	EnergyWise	Pool pump switches	9999	9999	9999	181	76	0	
Commercial/Ind	Better Business	Demand Controlled Ventilation	3.38	1.25	2.69	6	31	53	
Commercial/Ind	Better Business	Duct Sealing Repair	9.12	1.64	5.56	4	0	20	
Commercial/Ind	Better Business	HVAC tune-up	1.53	0.95	1.60	0	0	0	
Commercial/Ind	Better Business	High Efficiency DX 135k- less than 240k BTU	1.51	1.18	1.28	4	0	10	
Commercial/Ind	Better Business	Retro-Commissioning	1.99	0.93	2.15	3	4	18	
Commercial/Ind	Better Business	Energy Recovery Ventilation System (ERV)	1.63	4.05	0.40	0	0	0	PCT
Commercial/Ind	Better Business	Roof Insulation	0.66	1.25	0.53	0	0	0	TRC and PCT
Commercial/Ind	Better Business	Thermal Energy Storage	2.52	9999	2.21	30	9	-5	
Commercial/Ind	Better Business	High Efficiency PTAC	4.86	1.35	3.60	0	0	0	
Commercial/Ind	Better Business	High Efficiency PTHP	5.01	1.33	3.76	0	0	0	
Commercial/Ind	Better Business	HVAC tune-up_RTU	1.01	0.84	1.20	20	0	50	
Commercial/Ind	Interruptible/Curtailable	Interruptible/Curtailable	9999	9999	9999	1,857	1,780	0	

Program Legend:
NES = Neighborhood Energy Saver Program
LIWAP = Low Income Weatherization Assistance Program
RIP = Residential Incentive Program

Note:
The Neighborhood Energy Saver and Low Income Weatherization programs are both low income programs. DEF typically provides some measures through these programs that have less than a 2 year payback and others that may not pass RIM. These measures are not included in goals. DEF evaluates these programs based on the overall cost effectiveness of the bundled measures.

Existing DSM Program Measures									
Achievable Potential – RIM									
Customer Class	Program Name	Measure Name	TRC	RIM	PCT	Summer (MW)	Winter (MW)	Energy (GWh)	Reason For Failure
Residential	NES/LIWAP	Heat Pump Tune Up	0.39	0.89	0.44	0	0	0	RIM and PCT
Residential	NES/LIWAP/RIP	Ceiling Insulation(R2 to R38)	7.31	1.27	5.73	2	1	3	
Residential	NES/LIWAP	CFL-13W	1.17	0.35	3.37	0	0	0	RIM
Residential	NES/LIWAP	CFL-23W	2.55	0.35	7.33	0	0	0	RIM and Payback<2
Residential	NES/LIWAP	Air Sealing-Infiltration Control	2.03	1.13	1.79	14	4	18	
Residential	NES/LIWAP/RIP	Duct Repair	3.64	1.13	3.22	22	6	27	
Residential	NES/LIWAP	Faucet Aerator	11.91	0.50	23.79	0	0	0	RIM and Payback<2
Residential	NES/LIWAP	LED - 9W	3.02	0.37	8.14	0	0	0	RIM and Payback<2
Residential	NES/LIWAP	Low Flow Showerhead	18.89	0.48	39.40	0	0	0	RIM and Payback<2
Residential	NES	Hot Water Pipe Insulation	7.21	0.54	13.39	0	0	0	RIM and Payback<2
Residential	LIWAP	Energy Star Refrigerator	0.66	0.44	1.50	0	0	0	RIM
Residential	NES	Smart Power Strip	1.04	0.35	2.95	0	0	0	RIM and Payback<2
Residential	NES/LIWAP	Water Heater Blanket	0.51	0.43	1.17	0	0	0	RIM
Residential	RIP	Energy Star Windows	3.62	1.27	2.84	7	2	14	
Residential	LIWAP/RIP	15 SEER Air Source Heat Pump	1.50	1.22	1.23	6	11	13	
Residential	RIP	17 SEER Air Source Heat Pump	0.86	1.22	0.71	0	0	0	PCT
Residential	LIWAP/RIP	14 SEER ASHP from base electric resistance heating	3.50	1.19	2.94	0	11	17	
Residential	RIP	21 SEER ASHP from base electric resistance heating	1.00	1.22	0.82	0	0	0	PCT
Residential	EnergyWise	HVAC - Load Shed	19.21	2.97	9999	18	15	0	
Residential	EnergyWise	HVAC - 50% Cycling	15.34	2.86	9999	13	16	0	
Residential	EnergyWise	Water heater switches	4.11	1.89	9999	0	0	0	
Residential	EnergyWise	Pool pump switches	11.43	2.84	9999	12	8	0	
Commercial/Ind	Better Business	Ceiling Insulation(R2 to R38)	4.79	1.25	3.83	0	0	4	
Commercial/Ind	Better Business	High Efficiency Chiller (Water cooled-centrifugal, 200 tons)	5.55	1.17	4.76	0	0	1	
Commercial/Ind	Better Business	Chilled Water Controls Optimization	6.15	1.01	6.10	0	0	0	Payback<2
Commercial/Ind	Better Business	Cool Roof	0.18	1.47	0.12	0	0	0	PCT
Commercial/Ind	Better Business	Demand Controlled Ventilation	3.38	1.25	2.69	3	16	27	
Commercial/Ind	Better Business	Duct Sealing Repair	9.12	1.64	5.56	2	0	8	
Commercial/Ind	Better Business	HVAC tune-up	1.53	0.95	1.60	0	0	0	RIM
Commercial/Ind	Better Business	High Efficiency DX 135k- less than 240k BTU	1.51	1.18	1.28	1	0	2	
Commercial/Ind	Better Business	Retro-Commissioning	1.99	0.93	2.15	0	0	0	RIM
Commercial/Ind	Better Business	Energy Recovery Ventilation System (ERV)	1.63	4.05	0.40	0	0	0	PCT
Commercial/Ind	Better Business	Roof Insulation	0.66	1.25	0.53	0	0	0	PCT
Commercial/Ind	Better Business	Thermal Energy Storage	2.52	9999	2.21	10	3	-2	
Commercial/Ind	Better Business	High Efficiency PTAC	4.86	1.35	3.60	0	0	0	
Commercial/Ind	Better Business	High Efficiency PTHP	5.01	1.33	3.76	0	0	0	
Commercial/Ind	Better Business	HVAC tune-up_RTU	1.01	0.84	1.20	0	0	0	RIM
Commercial/Ind	Interruptible	Interruptible	58.42	2.39	9999	115	92	0	
Commercial/Ind	Curtable	Curtable	109.34	5.13	9999	70	80	0	

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Existing DSM Program Measures									
Achievable Potential – TRC									
Customer Class	Program Name	Measure Name	TRC	RIM	PCT	Summer (MW)	Winter (MW)	Energy (GWh)	Reason For Failure
Residential	NES/LIWAP	Heat Pump Tune Up	0.39	0.89	0.44	0	0	0	TRC and PCT
Residential	NES/LIWAP/RIP	Ceiling Insulation(R2 to R38)	7.31	1.27	5.73	4	2	7	
Residential	NES/LIWAP	CFL-13W	1.17	0.35	3.37	0	0	0	
Residential	NES/LIWAP	CFL-23W	2.55	0.35	7.33	0	0	0	Payback<2
Residential	NES/LIWAP	Air Sealing-Infiltration Control	2.03	1.13	1.79	18	5	24	
Residential	NES/LIWAP/RIP	Duct Repair	3.64	1.13	3.22	24	6	29	
Residential	NES/LIWAP	Faucet Aerator	11.91	0.50	23.79	0	0	0	Payback<2
Residential	NES/LIWAP	LED - 9W	3.02	0.37	8.14	0	0	0	Payback<2
Residential	NES/LIWAP	Low Flow Showerhead	18.89	0.48	39.40	0	0	0	Payback<2
Residential	NES	Hot Water Pipe Insulation	7.21	0.54	13.39	0	0	0	Payback<2
Residential	LIWAP	Energy Star Refrigerator	0.66	0.44	1.50	0	0	0	TRC
Residential	NES	Smart Power Strip	1.04	0.35	2.95	0	0	0	Payback<2
Residential	NES/LIWAP	Water Heater Blanket	0.51	0.43	1.17	0	0	0	TRC
Residential	RIP	Energy Star Windows	3.62	1.27	2.84	7	2	14	
Residential	LIWAP/RIP	15 SEER Air Source Heat Pump	1.50	1.22	1.23	7	13	17	
Residential	RIP	17 SEER Air Source Heat Pump	0.86	1.22	0.71	0	0	0	TRC and PCT
Residential	LIWAP/RIP	14 SEER ASHP from base electric resistance heating	3.50	1.19	2.94	0	11	17	
Residential	RIP	21 SEER ASHP from base electric resistance heating	1.00	1.22	0.82	0	0	0	TRC and PCT
Residential	EnergyWise	HVAC - Load Shed	19.21	2.97	9999	18	15	0	
Residential	EnergyWise	HVAC - 50% Cycling	15.34	2.86	9999	13	16	0	
Residential	EnergyWise	Water heater switches	4.11	1.89	9999	0	0	0	
Residential	EnergyWise	Pool pump switches	11.43	2.84	9999	12	8	0	
Commercial/Ind	Better Business	Ceiling Insulation(R2 to R38)	4.79	1.25	3.83	0	0	4	
Commercial/Ind	Better Business	High Efficiency Chiller (Water cooled-centrifugal, 200 tons)	5.55	1.17	4.76	1	0	1	
Commercial/Ind	Better Business	Chilled Water Controls Optimization	6.15	1.01	6.10	0	0	0	Payback<2
Commercial/Ind	Better Business	Cool Roof	0.18	1.47	0.12	0	0	0	TRC and PCT
Commercial/Ind	Better Business	Demand Controlled Ventilation	3.38	1.25	2.69	3	16	27	
Commercial/Ind	Better Business	Duct Sealing Repair	9.12	1.64	5.56	2	0	8	
Commercial/Ind	Better Business	HVAC tune-up	1.53	0.95	1.60	0	0	0	
Commercial/Ind	Better Business	High Efficiency DX 135k- less than 240k BTU	1.51	1.18	1.28	1	0	2	
Commercial/Ind	Better Business	Retro-Commissioning	1.99	0.93	2.15	1	1	5	
Commercial/Ind	Better Business	Energy Recovery Ventilation System (ERV)	1.63	4.05	0.40	0	0	0	PCT
Commercial/Ind	Better Business	Roof Insulation	0.66	1.25	0.53	0	0	0	TRC and PCT
Commercial/Ind	Better Business	Thermal Energy Storage	2.52	9999	2.21	10	3	-2	
Commercial/Ind	Better Business	High Efficiency PTAC	4.86	1.35	3.60	0	0	0	
Commercial/Ind	Better Business	High Efficiency PTHP	5.01	1.33	3.76	0	0	0	
Commercial/Ind	Better Business	HVAC tune-up_RTU	1.01	0.84	1.20	3	0	8	
Commercial/Ind	Interruptible	Interruptible	58.42	2.39	9999	115	92	0	
Commercial/Ind	Curtable	Curtable	109.34	5.13	9999	70	80	0	

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