

Low Income Retrofit

2012 Plan (Revised with 2011 Carryover)

Measure	Quantity			Annual Savings per Unit (mmbtu)			Measure Life			In-Service / Realization Rate		Total Lifetime Savings (mmbtu)		
	2010 Plan	2010 Actual	2012 Plan	2010 Plan	2010 Actual	2012 Plan	2010 Plan	2010 Actual	2012 Plan	2010	2012	2010 Plan	2010 Actual	2012 Plan
Air Sealing	-	-	30.1	-	-	19.2	15	15	15	100%	100%	-	-	8,668
Insulation	-	-	30.1	-	-	19.5	25	25	25	100%	100%	-	-	14,649
Weatherization	80	-	-	26	-	-	15	25	-	100%	100%	31,567	-	-
SF Air Sealing	-	4	-	-	19.2	-	-	15	-	100%	100%	-	1,151	-
SF Insulation	-	4	-	-	19.5	-	-	25	-	100%	100%	-	1,946	-
SF Condensing Boiler	-	1	-	-	45.7	-	-	20	-	100%	100%	-	914	-
SF Furnace	-	2	-	-	31.0	-	-	18	-	100%	100%	-	1,116	-
SF Thermostats	-	1	-	-	1.3	-	-	10	-	100%	100%	-	13	-
SF Water Measures	-	3	-	-	3.3	-	-	7	-	100%	100%	-	68	-
MF Air Sealing (24 unit project)	-	1	-	-	185.4	-	-	15	-	100%	100%	-	2,780	-
MF Insulation	-	1	-	-	163.0	-	-	25	-	100%	100%	-	4,076	-
MF Boiler	-	2	-	-	101.0	-	-	20	-	100%	100%	-	4,040	-
MF Indirect Water Heat	-	2	-	-	34.2	-	-	15	-	100%	100%	-	1,025	-
MF Thermostats	-	1	-	-	41.0	-	-	10	-	100%	100%	-	410	-
MF DHW	-	1	-	-	80.1	-	-	7	-	100%	100%	-	560	-

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	2010 Plan	2010 Actual	2012 Plan	2010 Plan	2010 Actual	2012 Plan	2010 Plan	2010 Actual	2012 Plan	2010	2012	2010 Plan	2010 Actual	2012 Plan
ES Homes SF Heating	25	2	31.5	22.5	13.1	22.5	25	25	25	100%	100%	14,245	654	17,697
ES Homes SF Water Heating	25	3	31.5	2.5	3.1	2.5	15	15	15	100%	100%	950	141	1,180
ES Homes Dishwashers	0	3	31.5	-	0.2	1.9	11	11	10	100%	100%	-	5	598
ES Homes Thermostats	13	5	55.1	7.7	7.7	7.7	10	10	10	100%	100%	975	385	4,239
ES Homes MF Heating	0	32	-	-	149.3	-	25	25	25	100%	100%		119,472	-

Measure	Quantity			Annual Savings per Unit (mmbtu)			Measure Life			In-Service / Realization Rate		Total Lifetime Savings (mmbtu)		
	2010 Plan	2010 Actual	2012 Plan	2010 Plan	2010 Actual	2012 Plan	2010 Plan	2010 Actual	2012 Plan	2010	2012	2010 Plan	2010 Actual	2012 Plan
Furnace 92+ AFUE (<150) w/ECM Motor (DROP)	-	-	-	-	-	19.6	-	-	18	100%	100%	-	-	-
Furnace 94+ AFUE (<150) w/ECM Motor (DROP)	-	-	-	-	-	23.6	-	-	18	100%	100%	-	-	-
Furnace 95+ AFUE (<150) w/ECM Motor	-	-	4	-	-	18.0	-	-	18	100%	100%	-	-	1,438
Furnace 96% AFUE w/ ECM Motor	-	-	-	-	-	20.7	-	-	18	100%	100%	-	-	-
Free Standing Water Heater (EF 0.62) (DROP)	-	-	-	-	-	1.9	-	-	10	100%	100%	-	-	-
Free Standing Water Heater (EF 0.67)	-	-	-	-	-	3.0	-	-	10	100%	100%	-	-	-
On demand, Tankless Water Heater >= .95	-	-	13	-	-	9.6	-	-	20	100%	100%	-	-	2,554
On demand, Tankless Water Heater >= .82	-	-	-	-	-	7.1	-	-	20	100%	100%	-	-	-
Indirect Water Heaters	-	-	9	-	-	30.4	-	-	15	100%	100%	-	-	4,048
Condensing Stand Alone Water Heater (75-300 mbh) >=95%	-	-	9	-	-	25.0	-	-	15	100%	100%	-	-	3,329
Integrated water heater/condensing boiler (0.9 EF, 0.9 AFUE)	-	-	9	-	-	24.6	-	-	25	100%	100%	-	-	5,459
Integrated water heater/condensing boiler (0.86 EF, 0.85 AFUE) (DROP)	-	-	-	-	-	20.0	-	-	20	100%	100%	-	-	-
Condensing boiler 301-499 mbh	-	-	9	-	-	42.3	-	-	25	100%	100%	-	-	9,387
Condensing boiler 500-999 mbh	-	-	9	-	-	77.1	-	-	25	100%	100%	-	-	17,109
Condensing boiler 1000-1700 mbh	-	-	-	-	-	142.6	-	-	25	100%	100%	-	-	-
Condensing boiler 1701+ mbh	-	-	-	-	-	249.0	-	-	25	100%	100%	-	-	-
Condensing boiler <=300 mbh >90% AFUE	-	-	-	-	-	22.1	-	-	25	100%	100%	-	-	-
Condensing boiler <=300 mbh >96% AFUE	-	-	-	-	-	22.1	-	-	25	100%	100%	-	-	-
Condensing Unit Heater <=300 mbh 90%	-	-	18	-	-	40.9	-	-	18	100%	100%	-	-	13,070
Infrared Heater	-	-	4	-	-	74.4	-	-	25	100%	100%	-	-	8,255
Boiler Reset Controls	-	-	-	-	-	35.5	-	-	20	100%	100%	-	-	-
Food Service Fryers	-	-	9	-	-	58.6	-	-	12	100%	100%	-	-	6,242
Food Service High Efficiency Gas Steamer (Energy Star >=38% efficiency)	-	-	-	-	-	51.2	-	-	10	100%	100%	-	-	-
Food Service High Efficiency Gas Convection Oven (>=40% efficiency)	-	-	-	-	-	110.3	-	-	12	100%	100%	-	-	-
Food Service High Efficiency Gas Combination Oven (>=40% efficiency)	-	-	3	-	-	24.8	-	-	12	100%	100%	-	-	792
Food Service High Efficiency Gas Conveyer Oven (>=40% efficiency)	-	-	-	-	-	84.5	-	-	12	100%	100%	-	-	-
Food Service High Efficiency Gas Rack Oven (>=50% efficiency)	-	-	-	-	-	211.3	-	-	12	100%	100%	-	-	-
Food Service High Efficiency Gas Griddle	-	-	-	-	-	18.5	-	-	12	100%	100%	-	-	-
Furnace w/ ECM	3	4	-	19.6	19.6	-	18	18	-	100%	100%	961	1,408	-
Infrared Heaters	2	2	-	61.2	61.2	-	17	17	-	100%	100%	2,130	2,081	-
Programmable Thermostats	27	15	53.3	7.7	7.7	7.7	10	10	15	100%	100%	2,102	1,155	6,151
Food Services Equipment	4	5	-	55.9	54.5	-	10	10	-	100%	100%	2,236	2,724	-
Boiler - HW >=85	3	9	-	8.0	8.0	-	20	20	-	100%	100%	546	1,440	-
Boiler - HW >=90	25	28	-	12.9	12.9	-	20	20	-	100%	100%	6,536	7,246	-
Boiler/WH Combo>=90 AFUE	10	15	-	11.40	11.4	-	20	20	-	100%	100%	2,334	3,420	-
Indirect Water Heaters	-	5	-	-	7.9	-	15	15	-	100%	100%	-	593	-
Furnace 92+ AFUE (<150) w/ECM Motor (DROP)	-	1	-	-	21.5	-	-	18	-	100%	100%	-	387	-
Water Heater On Demand	-	2	-	-	1.0	-	-	13	-	100%	100%	-	25	-

Large C&I Retrofit

2012 Plan (Revised with 2011 Carryover)

Measure	Quantity			Annual Savings per Unit (Therms)			Measure Life			In-Service / Realization Rate		Total Lifetime Savings (Therms)		
	2010 Plan	2010 Actual	2012 Plan	2010 Plan	2010 Actual	2012 Plan	2010 Plan	2010 Actual	2012 Plan	2010	2012	2010 Plan	2010 Actual	2012 Plan
Large C&I Custom Boilers	4	-	10	84,532	-	6,240	13	-	18	100%	100%	1,115,818	-	1,119,991
Boilers	-	1	-	-	31,117	-	-	20	-	100%	100%	-	622,340	-
Burners & Controls	-	2	-	-	34,255	-	-	15	-	100%	100%	-	1,027,650	-

Res High Efficiency, Water Heating and Controls

Measure	Quantity			Annual Savings per Unit (mmbtu)			Measure Life			In-Service / Realization Rate		Total Lifetime Savings (mmbtu)		
	2010 Plan	2010 Actual	2012 Plan	2010 Plan	2010 Actual	2012 Plan	2010 Plan	2010 Actual	2012 Plan	2010	2012	2010 Plan	2010 Actual	2012 Plan
On-Demand Tankless Water Heaters (EF 0.82)	-	53.0	12	-	7.9	9.7	-	13	20	100%	100%	-	5,443	2,304
Indirect Water Heater (attached to gas Energy Star FHW boiler) 2010	-	4.0	12	-	4.0	8.0	-	20	20	100%	100%	-	320	1,900
Stand Alone Storage Water Heater (EF 0.67)	-	-	-	-	-	3.7	-	-	13	100%	100%	-	-	-
Combo condensing boiler w/ On-Demand DWH 90%	-	-	-	-	-	21.1	-	-	20	100%	100%	-	-	-
Furnace (forced hot air) 95% AFUE w/ECM	-	-	237	-	-	18.0	-	-	18	100%	100%	-	-	76,949
Furnace (forced hot air) 96% AFUE w/ECM	-	-	40	-	-	20.7	-	-	18	100%	100%	-	-	14,749
Boiler (forced hot water) 96% AFUE	-	-	8	-	-	21.3	-	-	20	100%	100%	-	-	3,372
Boiler (forced hot water) 90% AFUE	-	-	32	-	-	13.7	-	-	20	100%	100%	-	-	8,677
7-Day Programmable Thermostats	61.9	211.0	40	7.7	7.7	7.7	10	10	15	100%	100%	4,763	16,247	4,572
Boiler Reset Controls	-	1.0	4	-	7.9	7.9	-	15	15	100%	100%	-	119	469
On-Demand Tankless Water Heater (EF 0.95)	-	-	4	-	-	10.3	-	-	20	100%	100%	-	-	815
Condensing Gas Water Heater (EF 0.94)	-	-	8	-	-	25.0	-	-	15	100%	100%	-	-	2,969
Boiler (forced hot water) 90% AFUE	-	122.0	-	-	11.4	14.2	-	20	20	100%	100%	-	27,816	-
Furnace (forced hot air) 92% AFUE w/ECM	6.1	72.0	-	19.6	19.6	11.8	18	18	18	100%	100%	2,146	25,337	-
Furnace (forced hot air) 94% AFUE w/ECM	-	4.0	-	-	23.6	14.2	-	18	18	100%	100%	-	1,699	-
Integrated water heating/condensing boiler	-	3.0	-	-	21.1	21.1	-	20	20	100%	100%	-	1,266	-
Stand Alone Storage Water Heater (EF 0.62)	-	5.0	-	-	1.9	1.9	-	13	13	100%	100%	-	124	-
Boiler HW >=85% AFUE	11.3	17.0	-	11.4	11.4	-	20	20	-	100%	100%	2,582	3,876	-
Steam Boiler >= 82% AFUE	0.9	9.0	-	12.9	12.3	-	20	25	-	100%	100%	225	2,768	-
Warm Air Furnace 90% or > AFUE	22.7	-	-	21.5	-	-	18	-	-	100%	100%	8,767	-	-
Windows	104.6	212.0	-	0.2	0.2	-	20	20	-	100%	100%	481	975	-
HE Gas Water Heater	4.4	-	-	1.0	-	-	13	-	-	100%	100%	55	-	-
Instantaneous Wall Mounted Boiler	47.9	-	-	12.9	-	-	15	-	-	100%	100%	9,272	-	-
Furnace (forced hot air) 92% or > AFUE	-	34.0	-	-	21.1	-	-	18	-	100%	100%	-	12,883	-
Water Heater On-demand	-	1.0	-	-	7.8	-	-	20.0	-	100%	100%	-	156	-
Integrated water heating/non-condensing boiler	-	16.0	-	-	21.1	-	-	20.0	-	100%	100%	-	6,752	-
Indirect Water Heater	27.0	57.0	-	7.9	7.9	-	15	15.0	-	100%	100%	3,200	6,755	-
Warm Air Furnace w/out ECM 92%>	-	5.0	-	-	21.1	-	-	18.0	-	100%	100%	-	1,899	-