

Energy Efficiency Services

Exhibit 2 2011 Cost Effectiveness Calculations

February 15, 2012



PUGET SOUND ENERGY
The Energy To Do Great Things

Program Number	Program Name	All Cost-Effectiveness Tests: Measure Life	All Cost-Effectiveness Tests: Load Shape	All Cost-Effectiveness Tests: kWh Savings	Utility Cost and TRC Tests: Program Overhead Costs	Utility Cost and TRC Tests: Total Incentive Payments	Indirectly Included in TRC Test: Customer Costs	TRC Test: Incremental Measure Costs	TRC Test: Other Contributions
E201	Low Income Wx Total	Varies By Measure	Varies By Measure	3,715,732	\$246,205.90	\$3,966,633.85	\$0.00	\$3,966,633.85	\$0.00
	Low Income WX	Varies By Measure	Varies By Measure	1,965,467	\$246,205.90	\$2,041,618.96	\$0.00	\$2,041,618.96	\$0.00
	Low Income REC	Varies By Measure	Varies By Measure	1,750,265	\$0.00	\$1,925,014.89	\$0.00	\$1,925,014.89	\$0.00
E214	Single Family Existing	Varies By Measure	Varies By Measure	110,163,028	\$4,962,294.01	\$12,790,926.34	\$12,749,980.24	\$26,267,512.54	\$739,050.96
	Residential Lighting Rebate (18230440)	Varies By Measure	Varies By Measure	86,062,465	\$2,681,343.00	\$6,283,529.00	\$5,705,280.30	\$11,988,809.30	\$0.00
	Residential Space Heat (18230628)	Varies By Measure	Varies By Measure	4,958,459	\$317,655.74	\$1,532,306.00	\$3,950,103.00	\$5,481,609.00	\$0.00
	Residential Water Heat (18230626)	Varies By Measure	Varies By Measure	405,064	\$62,605.04	\$82,750.00	\$68,418.00	\$151,168.00	\$0.00
	Refrigerator Decommissioning(18230432)	Varies By Measure	Varies By Measure	2,579,239	\$201,038.00	\$512,133.00	\$0.00	\$512,133.00	\$0.00
	Energy Star Clothes Washers (18230434)	Varies By Measure	Varies By Measure	2,758,876	\$782,189.00	\$1,533,370.00	\$1,741,978.00	\$3,275,348.00	\$0.00
	Residential Showerheads (18230435)	Varies By Measure	Varies By Measure	3,801,550	\$116,166.53	\$124,033.00	\$0.00	\$124,033.00	\$0.00
	SF Weatherization (18230488 & 18230627)	Varies By Measure	Varies By Measure	1,768,897	\$329,177.36	\$294,005.64	\$1,284,200.94	\$1,578,206.58	\$0.00
	SF Existing ARRA Weatherization (18230501)	Varies By Measure	Varies By Measure	3,923,750	\$24,682.07	\$1,390,205.00	\$0.00	\$2,121,255.96	\$731,050.96
	HomePrint (18230625)	Varies By Measure	Varies By Measure	3,435,873	\$340,218.97	\$758,044.00	\$0.00	\$754,399.00	\$8,000.00
	Primary Refrigerator Replacement (18230409)	Varies By Measure	Varies By Measure	468,855	\$43,055.30	\$280,550.70	\$0.00	\$280,550.70	\$0.00
	It's Cool	Varies By Measure	Varies By Measure	0	\$1,643.00	\$0.00	\$0.00	\$0.00	\$0.00
	Consumer Electronics NEEA	Varies By Measure	Varies By Measure	0	\$12,757.00	\$0.00	\$0.00	\$0.00	\$0.00
	TV Turn-in	Varies By Measure	Varies By Measure	0	\$49,763.00	\$0.00	\$0.00	\$0.00	\$0.00
E215	Single Family New Construction	Varies By Measure	Varies By Measure	1,540,565	\$361,555.15	\$491,304.93	\$35,508.81	\$526,813.74	\$0.00
	NC Electric (18230405)	Varies By Measure	Varies By Measure	1,435,887	\$361,555.15	\$485,604.93	\$17,193.00	\$502,797.93	\$0.00
	NC Energy Star MF Home (18230433)	Varies By Measure	Varies By Measure	104,678	\$0.00	\$5,700.00	\$18,315.81	\$24,015.81	\$0.00
E216	Single Family Fuel Conversion	Varies By Measure	Varies By Measure	1,606,500	\$79,640.76	\$350,223.00	\$856,818.00	\$1,207,041.00	\$0.00
E217	Multifamily Existing Total	Varies By Measure	Varies By Measure	17,852,426	\$1,019,778.10	\$3,984,980.78	\$1,736,219.80	\$5,721,200.58	\$0.00
E218	Multifamily New Construction	Varies By Measure	Varies By Measure	1,082,197	\$127,890.00	\$390,340.00	\$0.00	\$390,340.00	\$0.00
E249	Residential Pilots	Varies By Measure	Varies By Measure	5,384,632	\$636,532.00	\$49,961.00	\$67,689.00	\$117,650.00	\$0.00
	Single Family Existing Pilot (18230629)	Varies By Measure	Varies By Measure	292,101	\$23,406.00	\$49,961.00	\$67,689.00	\$117,650.00	\$0.00
	Home Energy Reports- Legacy	Varies By Measure	Varies By Measure	5,092,531	\$199,367.06	\$0.00	\$0.00	\$0.00	\$0.00
	C7/Whatcom/Bainbridge Projects	No Savings	No Savings	0	\$254,998.94	\$0.00	\$0.00	\$0.00	\$0.00
	Home Energy Reports 2012	No Savings	No Savings	0	\$158,760.00	\$0.00	\$0.00	\$0.00	\$0.00
E200	Energy Information	No Savings	No Savings	0	\$1,086,005.88	\$0.00	\$0.00	\$0.00	\$0.00
E202	Energy Education	No Savings	No Savings	0	\$114,811.43	\$0.00	\$0.00	\$0.00	\$0.00
	Total Residential Energy Management			141,345,080	\$8,634,713.23	\$22,024,369.90	\$15,446,215.85	\$38,197,191.70	\$739,050.96
E250	Commercial/Industrial Retrofit	Varies By Measure	Varies By Measure	79,595,974	\$3,950,413.98	\$14,547,722.25	\$20,184,954.82	\$34,732,677.07	\$0.00
E251	Commercial/Industrial New Construction	Varies By Measure	Varies By Measure	18,437,630	\$108,648.75	\$7,740,464.00	\$1,908,141.00	\$9,648,605.00	\$0.00
E253	Resource Conservation Manager	Varies By Measure	Varies By Measure	25,190,993	\$771,752.00	\$263,530.00	\$1,650,872.00	\$1,914,402.00	\$0.00
E255	Small Business Lighting	Varies By Measure	Varies By Measure	25,058,942	\$605,384.86	\$6,860,029.00	\$2,379,853.00	\$9,239,882.00	\$0.00
E257	LED Traffic Lights	Varies By Measure	Varies By Measure	1,176,230	\$500.00	\$33,010.00	\$245,943.00	\$278,953.00	\$0.00
E258	High Voltage, Self-Directed	Varies By Measure	Varies By Measure	9,393,575	\$46,995.44	\$1,697,572.00	\$668,464.00	\$2,366,036.00	\$0.00
E262	Business Rebates	Varies By Measure	Varies By Measure	25,227,144	\$566,961.52	\$1,915,463.28	\$4,709,099.79	\$6,624,563.07	\$0.00
E260	Business Energy Efficiency Information (Landers)	No Savings	No Savings	0	\$48,936.98	\$0.00	\$0.00	\$0.00	\$0.00
	Gas Conservation Comm/Ind Tracker AFUCE	No Savings	No Savings	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	Total Business Energy Management			184,080,488	\$6,099,593.53	\$33,057,790.53	\$31,747,327.61	\$64,805,118.14	\$0.00
	Northwest Energy Efficiency Alliance	Varies By Measure	Varies By Measure	23,500,000	\$5,241,606.00	\$0.00	\$0.00	\$0.00	\$0.00
	Transmission & Distribution					\$0.00	\$0.00	\$0.00	\$0.00
	Total Regional Programs			23,500,000	\$5,241,606.00	\$0.00	\$0.00	\$0.00	\$0.00
	Program Evaluation (France)	Varies By Measure	Varies By Measure		\$1,546,379.45	\$0.00	\$0.00	\$0.00	\$0.00
	Quality Assurance (France)	Varies By Measure	Varies By Measure		\$79,893.77	\$0.00	\$0.00	\$0.00	\$0.00
	Strategic Planning & Market Research (Hopkins)	Varies By Measure	Varies By Measure		\$591,573.92	\$0.00	\$0.00	\$0.00	\$0.00
	Mainstreaming Green (Ringel)	Varies By Measure	Varies By Measure		\$293,363.63	\$0.00	\$0.00	\$0.00	\$0.00
	Conservation Supply Curves ³ (Hopkins)	Varies By Measure	Varies By Measure		\$197,635.17	\$0.00	\$0.00	\$0.00	\$0.00
	EES Market Integration (Ringel)	Varies By Measure	Varies By Measure		\$173,192.58	\$0.00	\$0.00	\$0.00	\$0.00
	Energy Efficient Green Communities (Geenen)	Varies By Measure	Varies By Measure		\$174,646.86	\$0.00	\$0.00	\$0.00	\$0.00
E270	Local Infrastructure& Mkt Transformation (Rich/Brateng)	Varies By Measure	Varies By Measure		\$43,240.00	\$0.00	\$0.00	\$0.00	\$0.00
E261	Energy Efficient Technology Evaluation (Jackman)	Varies By Measure	Varies By Measure		\$666.80	\$0.00	\$0.00	\$0.00	\$0.00
	Third-Party Evaluation Review (per condition K(6)(g))	No Savings	No Savings						\$0.00
	Program Support (France)	No Savings	No Savings		\$214,208.99	\$0.00	\$0.00	\$0.00	\$0.00
	Total Program Support				\$3,314,801.17	\$0.00	\$0.00	\$0.00	\$0.00
	Total In CE Calculations			348,925,568	\$23,290,713.93	\$55,082,160.43	\$47,193,543.46	\$103,002,309.84	\$739,050.96
	Residential Demand Response Pilot (France)				\$648,349.82	\$0.00	\$0.00	\$0.00	\$0.00
	Renewable Energy Education ⁵ (MacLean)				\$267,752.29	\$0.00	\$0.00	\$0.00	\$0.00
	Net Metering (Wade)				\$229,345.54	\$0.00	\$0.00	\$0.00	\$0.00
	C/I Load Control Pilot (France)				\$272,241.79	\$0.00	\$0.00	\$0.00	\$0.00
	Total Other Programs				\$1,417,689.44				
Grand Total of All EES Programs				39.8 aMW					

Program Number	Program Name	Utility Cost Test: Total Utility Costs	TRC Test: Total Resource Costs	TRC Test: Value of Non Energy Benefits	Utility Cost Test: Present Value of Utility Program Costs (Admin and Incentives) in Time Zero	Total Resource Cost Test: Present Value of Total Resource Costs in Time Zero	Utility Cost Test: Present Value Electric Savings In Time Zero	Total Resource Cost Test: Present Value Electric Savings in Time Zero
E201	Low Income Wx Total	\$4,212,839.75	\$4,212,839.75	\$0.00	\$3,891,768.82	\$3,891,768.82	\$6,728,899.97	\$7,276,292.83
	Low Income WX	\$2,287,824.86	\$2,287,824.86	\$0.00	\$2,113,464.07	\$2,113,464.07	\$3,578,590.61	\$3,936,449.68
	Low Income REC	\$1,925,014.89	\$1,925,014.89	\$0.00	\$1,778,304.75	\$1,778,304.75	\$3,150,309.36	\$3,339,843.15
E214	Single Family Existing	\$17,753,220.35	\$31,242,251.55	\$0.00	\$16,400,203.56	\$28,861,202.35	\$72,248,469.43	\$79,480,692.61
	Residential Lighting Rebate (18230440)	\$8,964,872.00	\$14,670,152.30	\$0.00	\$8,281,636.95	\$13,552,103.74	\$41,511,620.12	\$45,662,782.14
	Residential Space Heat (18230628)	\$1,849,961.74	\$5,800,064.74	\$0.00	\$1,708,971.58	\$5,358,027.47	\$10,386,192.49	\$11,424,811.74
	Residential Water Heat (18230626)	\$145,355.04	\$213,773.04	\$0.00	\$134,277.17	\$197,480.87	\$493,503.22	\$542,853.55
	Refrigerator Decommissioning(18230432)	\$713,171.00	\$713,171.00	\$0.00	\$658,818.48	\$658,818.48	\$1,873,692.44	\$2,061,061.69
	Energy Star Clothes Washers (18230434)	\$2,315,559.00	\$4,057,537.00	\$0.00	\$2,139,084.53	\$3,748,302.08	\$2,984,062.83	\$3,282,469.12
	Residential Showerheads (18230435)	\$240,199.53	\$240,199.53	\$0.00	\$221,893.33	\$221,893.33	\$3,384,281.70	\$3,722,709.87
	SF Weatherization (18230488 & 18230627)	\$623,183.00	\$1,907,383.94	\$0.00	\$575,688.68	\$1,762,017.50	\$3,901,356.12	\$4,291,491.73
	SF Existing ARRA Weatherization (18230501)	\$1,414,887.07	\$2,145,938.03	\$0.00	\$1,307,055.03	\$1,982,390.79	\$5,640,866.10	\$6,204,952.71
	HomePrint (18230625)	\$1,098,262.97	\$1,106,262.97	\$0.00	\$1,014,561.64	\$1,021,951.94	\$1,413,938.20	\$1,562,708.26
	Primary Refrigerator Replacement (18230409)	\$323,606.00	\$323,606.00	\$0.00	\$298,943.19	\$298,943.19	\$658,956.19	\$724,851.81
	It's Cool	\$1,643.00	\$1,643.00	\$0.00	\$1,517.78	\$1,517.78	\$0.00	\$0.00
	Consumer Electronics NEEA	\$12,757.00	\$12,757.00	\$0.00	\$11,784.76	\$11,784.76	\$0.00	\$0.00
	TV Turn-in	\$49,763.00	\$49,763.00	\$0.00	\$45,970.44	\$45,970.44	\$0.00	\$0.00
E215	Single Family New Construction	\$852,860.08	\$888,368.89	\$0.00	\$787,861.51	\$820,664.10	\$1,691,576.36	\$1,860,733.99
	NC Electric (18230405)	\$847,160.08	\$864,353.08	\$0.00	\$782,595.92	\$798,478.60	\$1,457,971.21	\$1,603,768.33
	NC Energy Star MF Home (18230433)	\$5,700.00	\$24,015.81	\$0.00	\$5,265.59	\$22,185.51	\$233,605.15	\$256,965.66
E216	Single Family Fuel Conversion	\$429,863.76	\$1,286,681.76	\$0.00	\$397,102.78	\$1,188,620.56	\$3,294,580.88	\$3,624,038.97
E217	Multifamily Existing Total	\$5,004,758.88	\$6,740,978.68	\$0.00	\$4,623,333.84	\$6,227,232.04	\$18,540,584.49	\$20,394,642.94
E218	Multifamily New Construction	\$518,230.00	\$518,230.00	\$0.00	\$478,734.41	\$478,734.41	\$1,222,641.18	\$1,344,905.30
E249	Residential Pilots	\$686,493.00	\$754,182.00	\$0.00	\$634,173.67	\$696,703.93	\$1,007,687.72	\$1,108,456.49
	Single Family Existing Pilot (18230629)	\$73,367.00	\$141,056.00	\$0.00	\$67,775.52	\$130,305.77	\$611,846.79	\$673,031.47
	Home Energy Reports- Legacy	\$199,367.06	\$199,367.06	\$0.00	\$184,172.80	\$184,172.80	\$395,840.93	\$435,425.03
	C7/Whatcom/Bainbridge Projects	\$254,998.94	\$0.00	\$0.00	\$235,564.84	\$0.00	\$0.00	\$0.00
	Home Energy Reports 2012	\$158,760.00	\$0.00	\$0.00	\$146,660.51	\$0.00	\$0.00	\$0.00
E200	Energy Information	\$1,086,005.88	\$1,086,005.88	\$0.00	\$1,003,238.69	\$1,003,238.69	\$0.00	\$0.00
E202	Energy Education	\$114,811.43	\$114,811.43	\$0.00	\$106,061.37	\$106,061.37	\$0.00	\$0.00
	Total Residential Energy Management	\$30,659,083.13	\$46,844,349.93	\$0.00	\$28,322,478.64	\$43,274,226.27	\$104,734,440.02	\$115,089,763.12
E250	Commercial/Industrial Retrofit	\$18,498,136.23	\$38,683,091.05	\$0.00	\$17,088,347.56	\$35,734,957.09	\$86,435,165.57	\$95,078,682.13
E251	Commercial/Industrial New Construction	\$7,849,112.75	\$9,757,253.75	\$0.00	\$7,250,912.47	\$9,013,629.33	\$21,504,966.57	\$23,655,463.23
E253	Resource Conservation Manager	\$1,035,282.00	\$2,686,154.00	\$0.00	\$956,380.60	\$2,481,435.57	\$6,132,642.95	\$6,745,907.24
E255	Small Business Lighting	\$7,465,413.86	\$9,845,266.86	\$0.00	\$6,896,456.22	\$9,094,934.74	\$25,732,087.88	\$28,305,296.67
E257	LED Traffic Lights	\$33,510.00	\$279,453.00	\$0.00	\$30,956.12	\$258,155.20	\$560,859.50	\$616,945.45
E258	High Voltage, Self-Directed	\$1,744,567.44	\$2,413,031.44	\$0.00	\$1,611,609.64	\$2,229,128.35	\$9,988,705.28	\$10,987,575.81
E262	Business Rebates	\$2,482,424.80	\$7,191,524.59	\$0.00	\$2,293,233.07	\$6,643,440.73	\$15,964,378.28	\$17,560,816.11
E260	Business Energy Efficiency Information (Landers)	\$48,936.98	\$48,936.98	\$0.00	\$45,207.37	\$45,207.37	\$0.00	\$0.00
	Gas Conservation Comm/Ind Tracker AFUCE	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	Total Business Energy Management	\$39,157,384.06	\$70,904,711.67	\$0.00	\$36,173,103.06	\$65,500,888.38	\$166,318,806.03	\$182,950,686.63
	Northwest Energy Efficiency Alliance	\$5,241,606.00	\$5,241,606.00	\$0.00	\$4,842,130.25	\$4,842,130.25	\$9,699,596.55	\$10,669,556.21
	Transmission & Distribution	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	Total Regional Programs	\$5,241,606.00	\$5,241,606.00	\$0.00	\$4,842,130.25	\$4,842,130.25	\$9,699,596.55	\$10,669,556.21
	Program Evaluation (France)	\$1,546,379.45	\$1,546,379.45	\$0.00	\$1,428,526.05	\$1,428,526.05	\$0.00	\$0.00
	Quality Assurance (France)	\$79,893.77	\$79,893.77	\$0.00	\$73,804.87	\$73,804.87	\$0.00	\$0.00
	Strategic Planning & Market Research (Hopkins)	\$591,573.92	\$591,573.92	\$0.00	\$546,488.61	\$546,488.61	\$0.00	\$0.00
	Mainstreaming Green (Ringel)	\$293,363.63	\$293,363.63	\$0.00	\$271,005.66	\$271,005.66	\$0.00	\$0.00
	Conservation Supply Curves ³ (Hopkins)	\$197,635.17	\$197,635.17	\$0.00	\$182,572.91	\$182,572.91	\$0.00	\$0.00
	EES Market Integration (Ringel)	\$173,192.58	\$173,192.58	\$0.00	\$159,993.15	\$159,993.15	\$0.00	\$0.00
	Energy Efficient Green Communities (Geenen)	\$174,646.86	\$174,646.86	\$0.00	\$161,336.59	\$161,336.59	\$0.00	\$0.00
E270	Local Infrastructure& Mkt Transformation (Rich/Brateng)	\$43,240.00	\$43,240.00	\$0.00	\$39,944.57	\$39,944.57	\$0.00	\$0.00
E261	Energy Efficient Technology Evaluation (Jackman)	\$666.80	\$666.80	\$0.00	\$615.98	\$615.98	\$0.00	\$0.00
	Third-Party Evaluation Review (per condition K(6)(g))	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	Program Support (France)	\$214,208.99	\$214,208.99	\$0.00	\$197,883.59	\$197,883.59	\$0.00	\$0.00
	Total Program Support	\$3,314,801.17	\$3,314,801.17	\$0.00	\$3,062,171.98	\$3,062,171.98	\$0.00	\$0.00
	Total In CE Calculations	\$78,372,874.36	\$126,305,468.77	\$0.00	\$72,399,883.94	\$116,679,416.88	\$280,752,842.60	\$308,710,005.96
	Residential Demand Response Pilot (France)	\$648,349.82	\$648,349.82	\$0.00	\$598,937.48	\$598,937.48	\$0.00	\$0.00
	Renewable Energy Education ⁵ (MacLean)	\$267,752.29	\$267,752.29	\$0.00	\$247,346.23	\$247,346.23	\$0.00	\$0.00
	Net Metering (Wade)	\$229,345.54	\$229,345.54	\$0.00	\$211,866.55	\$211,866.55	\$0.00	\$0.00
	C/I Load Control Pilot (France)	\$272,241.79	\$272,241.79	\$0.00	\$251,493.57	\$251,493.57	\$0.00	\$0.00
	Total Other Programs	\$1,417,689.44	\$1,417,689.44	\$0.00	\$1,311,461.09	\$1,311,461.09	\$0.00	\$0.00
Grand Total of All EES Programs		\$79,790,564						

slightly off of our budget because LIW includes REC funding.

Program Number	Program Name	TRC & Participant Test: Present Value of Non Energy Benefits in time Zero	Utility Cost Test: Benefit Cost Ratio	Total Resource Cost Test: Benefit Cost Ratio
E201	Low Income Wx Total	\$0	1.73	1.87
	Low Income WX	\$0	1.69	1.86
	Low Income REC	\$0	1.77	1.88
E214	Single Family Existing	0	4.41	2.75
	Residential Lighting Rebate (18230440)	\$0	5.01	3.37
	Residential Space Heat (18230628)	\$0	6.08	2.13
	Residential Water Heat (18230626)	\$0	3.68	2.75
	Refrigerator Decommissioning(18230432)	\$0	2.84	3.13
	Energy Star Clothes Washers (18230434)	\$0	1.40	0.88
	Residential Showerheads (18230435)	\$0	15.25	16.78
	SF Weatherization (18230488 & 18230627)	\$0	6.78	2.44
	SF Existing ARRA Weatherization (18230501)	\$0	4.32	3.13
	HomePrint (18230625)	\$0	1.39	1.53
	Primary Refrigerator Replacement (18230409)	\$0	2.20	2.42
	It's Cool	\$0	-	-
	Consumer Electronics NEEA	\$0	-	-
	TV Turn-in	\$0	-	-
E215	Single Family New Construction	\$0	2.15	2.27
	NC Electric (18230405)	\$0	1.86	2.01
	NC Energy Star MF Home (18230433)	\$0	44.36	11.58
E216	Single Family Fuel Conversion	\$0	1.83	1.40
E217	Multifamily Existing Total	\$0	4.01	3.28
E218	Multifamily New Construction	\$0	2.55	2.81
E249	Residential Pilots	\$0	1.59	1.59
	Single Family Existing Pilot (18230629)	\$0	9.03	5.17
	Home Energy Reports- Legacy	\$0	2.15	2.36
	C7/Whatcom/Bainbridge Projects	\$0	-	-
	Home Energy Reports 2012	\$0	-	-
E200	Energy Information		-	-
E202	Energy Education		-	-
	Total Residential Energy Management	0	3.70	2.66
E250	Commercial/Industrial Retrofit	\$0	5.06	2.66
E251	Commercial/Industrial New Construction	\$0	2.97	2.62
E253	Resource Conservation Manager	\$0	6.41	2.72
E255	Small Business Lighting	\$0	3.73	3.11
E257	LED Traffic Lights	\$0	18.12	2.39
E258	High Voltage, Self-Directed	\$0	6.20	4.93
E262	Business Rebates	\$0	6.96	2.64
E260	Business Energy Efficiency Information (Landers)	\$0	-	-
	Gas Conservation Comm/Ind Tracker AFUCE	\$0	-	-
	Total Business Energy Management	\$0	4.60	2.79
	Northwest Energy Efficiency Alliance	\$0	2.00	2.20
	Transmission & Distribution	\$0	-	-
	Total Regional Programs	\$0	2.00	2.20
	Program Evaluation (France)	\$0	-	-
	Quality Assurance (France)	\$0	-	-
	Strategic Planning & Market Research (Hopkins)	\$0	-	-
	Mainstreaming Green (Ringel)	\$0	-	-
	Conservation Supply Curves ³ (Hopkins)	\$0	-	-
	EES Market Integration (Ringel)	\$0	-	-
	Energy Efficient Green Communities (Geenen)	\$0	-	-
E270	Local Infrastructure & Mkt Transformation (Rich/Brateng)	\$0	-	-
E261	Energy Efficient Technology Evaluation (Jackman)	\$0	-	-
	Third-Party Evaluation Review (per condition K(6)(g))	\$0	-	-
	Program Support (France)	\$0	-	-
	Total Program Support	\$0	-	-
	Total In CE Calculations	\$0	3.88	2.65
	Residential Demand Response Pilot (France)	\$0	-	-
	Renewable Energy Education ⁵ (MacLean)	\$0	-	-
	Net Metering (Wade)	\$0	-	-
	C/I Load Control Pilot (France)	\$0	-	-
	Total Other Programs	\$0	-	-
Grand Total of All EES Programs				

Program Number	Program Name	All Cost-Effectiveness Tests: Measure Life	All Cost-Effectiveness Tests: Load Shape	All Cost-Effectiveness Tests: Therm Savings	Utility and TRC Tests: Program Overhead Costs	Utility and TRC Tests: Total Incentive Payments	Indirectly TRC Test: Customer Costs	TRC Test : Incremental Measure Costs	TRC Test: Other Contributions	Utility Cost Test: Total Utility Costs	TRC Test: Total Resource Costs
G203	Low Income WX	Varies by Measure	Varies by Measure	50,745	\$ 81,485	\$ 630,764	\$ -	\$ 630,764	\$ -	\$ 712,248	\$ 712,248
G214	Residential Single Family Existing	Varies by Measure	Varies by Measure	1,106,352	\$ 1,363,993	\$ 2,410,801	\$ 6,782,669	\$ 9,193,470	\$ -	\$ 3,774,794	\$ 10,557,463
	Residential Space Heat	Varies by Measure	Varies by Measure	399,140	\$ 206,884	\$ 471,200	\$ 2,678,919	\$ 3,150,119	\$ -	\$ 678,084	\$ 3,357,003
	Residential Water Heat	Varies by Measure	Varies by Measure	111,071	\$ 98,423	\$ 245,400	\$ 902,610	\$ 1,148,010	\$ -	\$ 343,823	\$ 1,246,433
	Residential Appliances	Varies by Measure	Varies by Measure	30,465	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Residential Showerheads	Varies by Measure	Varies by Measure	162,535	\$ 153,593	\$ 201,611	\$ -	\$ 201,611	\$ -	\$ 355,204	\$ 355,204
	Home Print	Varies by Measure	Varies by Measure	284	\$ 29,727	\$ 98,700	\$ -	\$ 98,700	\$ -	\$ 128,427	\$ 128,427
	Single Family Retrofit-Wx	Varies by Measure	Varies by Measure	391,233	\$ 865,645	\$ 1,261,844	\$ 3,201,140	\$ 4,462,984	\$ -	\$ 2,127,489	\$ 5,328,629
	Single Family AARA	Varies by Measure	Varies by Measure	11,624	\$ 9,720	\$ 132,046	\$ -	\$ 132,046	\$ -	\$ 141,766	\$ 141,766
G249	Residential Pilots	Varies by Measure	Varies by Measure	367,446	\$ 228,394	\$ 129,000	\$ 233,490	\$ 362,490	\$ -	\$ 357,394	\$ 590,884
	Fireplace Pilot	Varies by Measure	Varies by Measure	46,440	\$ 17,378	\$ 129,000	\$ 233,490	\$ 362,490	\$ -	\$ 146,378	\$ 379,868
	Home Energy Reports	Varies by Measure	Varies by Measure	321,006	\$ 92,925	\$ -	\$ -	\$ -	\$ -	\$ 92,925	\$ 92,925
	C7/Whatcom/Bainbridge Projects	Varies by Measure	Varies by Measure		\$ 50,051	\$ -	\$ -	\$ -	\$ -	\$ 50,051	\$ 50,051
	Home Energy Reports 2012	Varies by Measure	Varies by Measure		\$ 68,040	\$ -	\$ -	\$ -	\$ -	\$ 68,040	\$ 68,040
G215	Single Family New Construction	Varies by Measure	Varies by Measure	60,594	\$ 185,574	\$ 257,850	\$ 328,737	\$ 586,587	\$ -	\$ 443,424	\$ 772,161
G217	Multifamily Existing	Varies by Measure	Varies by Measure	35,079	\$ 101,612	\$ 195,524	\$ 522,394	\$ 717,917	\$ -	\$ 297,135	\$ 819,529
G218	Multifamily New Construction	Varies by Measure	Varies by Measure	26,160	\$ 98,293	\$ 138,499	\$ -	\$ 138,499	\$ -	\$ 236,792	\$ 236,792
G206	Residential Energy Efficiency Information	Varies by Measure	Varies by Measure		\$ 540,093	\$ -	\$ -	\$ -	\$ -	\$ 540,093	\$ 540,093
G207	Energy Education	Varies by Measure	Varies by Measure		\$ 37,571	\$ -	\$ -	\$ -	\$ -	\$ 37,571	\$ 37,571
	Total Residential Efficiency Programs			1,646,377	\$ 2,637,014	\$ 3,762,437	\$ 7,867,289	\$ 11,629,727	\$ -	\$ 6,399,452	\$ 14,266,741
G205	Commercial / Industrial Retrofit	Varies by Measure	Varies by Measure	1,076,951	\$ 602,777	\$ 4,174,211	\$ 4,509,106	\$ 8,683,317	\$ -	\$ 4,776,988	\$ 9,286,094
G251	Commercial/Industrial New Construction	Varies by Measure	Varies by Measure	468,685	\$ 58,447	\$ 2,136,994	\$ 2,136,994	\$ 4,273,988	\$ -	\$ 2,195,441	\$ 4,332,435
G208	Resource Conservation Manager	Varies by Measure	Varies by Measure	1,432,151	\$ 411,209	\$ 250,975	\$ 783,981	\$ 1,034,956	\$ -	\$ 662,184	\$ 1,446,165
G262	Commercial Rebates	Varies by Measure	Varies by Measure	562,557	\$ 101,852	\$ 364,816	\$ 1,129,530	\$ 1,494,346	\$ -	\$ 466,668	\$ 1,596,198
G260	Business Energy Efficiency Information (Landers)	Varies by Measure	Varies by Measure	0	\$ 35,072	\$ -	\$ -	\$ -	\$ -	\$ 35,072	\$ 35,072
	Gas Conservation Comm/Ind Tracker AFUCE	Varies by Measure	Varies by Measure	0	\$ 1,035	\$ -	\$ -	\$ -	\$ -	\$ 1,035	\$ 1,035
	Total Commercial Programs			3,540,344	\$ 1,210,392	\$ 6,926,996	\$ 8,559,611	\$ 15,486,607	\$ -	\$ 8,137,388	\$ 16,696,999
	Program Evaluation (France)				\$ 451,865					\$ 451,865	\$ 451,865
	Quality Assurance (France)				\$ 15,345					\$ 15,345	\$ 15,345
	Strategic Planning & Market Research (Hopkins)				\$ 150,215					\$ 150,215	\$ 150,215
	Mainstreaming Green (Ringel)				\$ 128,847					\$ 128,847	\$ 128,847
	Conservation Supply Curves ³ (Hopkins)				\$ 55,889					\$ 55,889	\$ 55,889
	EES Market Integration (Ringel)				\$ 69,011					\$ 69,011	\$ 69,011
	Energy Efficient Green Communities (Geenen)				\$ 69,443					\$ 69,443	\$ 69,443
G270	Local Infrastructure & Mkt Transformation (Rich/Brateng)				\$ 3,276					\$ 3,276	\$ 3,276
G261	Energy Efficient Technology Evaluation (Jackman)				\$ 235					\$ 235	\$ 235
	Third-Party Evaluation Review (per condition K(6)(g))				\$ -					\$ -	\$ -
	Program Support (France)				\$ 8,449					\$ 8,449	\$ 8,449
	Total Support				\$ 952,574					\$ 952,574	\$ 952,574
	Grand Total All Gas Programs			5,186,721						\$ 15,489,414	\$ 31,916,314

1. The electric residential appliance program offers clothes washers which save both gas and electricity. The bulk of the savings is electric savings. Therefore, the gas savings are simply an extra non-electric benefit of the program. This is why there are gas savings with no program incentives, overhead, or customer costs.

Program Number	Program Name	TRC Test: Value of Non Energy Benefits	Utility Test: Present Value of Total Utility Costs in Time Zero	TRC Test: Present Value of Total Resource Costs in Time Zero	Utility Cost and TRC Tests: Present Value Therm Savings In Time Zero	TRC Test: Present Value of Non Energy Benefits in time Zero	Utility Cost Test: Benefit Cost Ratio	Total Resource Cost Test: Benefit Cost Ratio
G203	Low Income WX	\$ -	\$ 657,966	\$ 657,966	\$ 766,905	\$ -	1.17	1.17
G214	Residential Single Family Existing	\$ -	\$ 3,487,108	\$ 9,752,853	\$ 13,954,423	\$ -	4.00	1.43
	Residential Space Heat	\$ -	\$ 626,406	\$ 3,101,158	\$ 4,908,808	\$ -	7.84	1.58
	Residential Water Heat	\$ -	\$ 317,619	\$ 1,151,439	\$ 1,321,204	\$ -	4.16	1.15
	Residential Appliances	\$ -	\$ -	\$ -	\$ 288,023	\$ -	NA	NA
	Residential Showerheads	\$ -	\$ 328,133	\$ 328,133	\$ 1,182,092	\$ -	3.60	3.60
	Home Print	\$ -	\$ 118,639	\$ 118,639	\$ 874	\$ -	0.01	0.01
	Single Family Retrofit-Wx	\$ -	\$ 1,965,348	\$ 4,922,521	\$ 6,108,271	\$ -	3.11	1.24
	Single Family AARA	\$ -	\$ 130,962	\$ 130,962	\$ 145,152	\$ -	1.11	1.11
G249	Residential Pilots	\$ -	\$ 330,156	\$ 545,851	\$ 867,427	\$ -	2.63	1.59
	Fireplace Pilot	\$ -	\$ 135,222	\$ 350,917	\$ 609,355	\$ -	4.51	1.74
	Home Energy Reports	\$ -	\$ 85,843	\$ 85,843	\$ 258,071	\$ -	3.01	3.01
	C7/Whatcom/Bainbridge Projects	\$ -	\$ 46,236	\$ 46,236	\$ -	\$ -		
	Home Energy Reports 2012	\$ -	\$ 62,855	\$ 62,855	\$ -	\$ -		
G215	Single Family New Construction	\$ -	\$ 409,629	\$ 713,313	\$ 696,483	\$ -	1.70	0.98
G217	Multifamily Existing	\$ -	\$ 274,490	\$ 757,070	\$ 555,522	\$ -	2.02	0.73
G218	Multifamily New Construction	\$ -	\$ 218,746	\$ 218,746	\$ 251,582	\$ -	1.15	1.15
G206	Residential Energy Efficiency Information	\$ -	\$ 498,931	\$ 498,931	\$ -	\$ -	0.00	0.00
G207	Energy Education	\$ -	\$ 34,708	\$ 34,708	\$ -	\$ -	0.00	0.00
	Total Residential Efficiency Programs	\$ -	\$ 5,911,734	\$ 13,179,438	\$ 17,092,341	\$ -	2.89	1.30
G205	Commercial / Industrial Retrofit	\$ -	\$ 4,412,922	\$ 8,578,378	\$ 12,339,047	\$ -	2.80	1.44
G251	Commercial/Industrial New Construction	\$ -	\$ 2,028,121	\$ 4,002,249	\$ 4,814,582	\$ -	2.37	1.20
G208	Resource Conservation Manager	\$ -	\$ 611,717	\$ 1,335,949	\$ 3,341,058	\$ -	5.46	2.50
G262	Commercial Rebates	\$ -	\$ 431,102	\$ 1,474,548	\$ 2,415,924	\$ -	5.60	1.64
G260	Business Energy Efficiency Information (Landers)	\$ -	\$ 32,399	\$ 32,399	\$ -	\$ -	0.00	0.00
	Gas Conservation Comm/Ind Tracker AFUCE	\$ -	\$ 956	\$ 956	\$ -	\$ -	0.00	0.00
	Total Commercial Programs	\$ -	\$ 7,517,217	\$ 15,424,479	\$ 22,910,610	\$ -	3.05	1.49
	Program Evaluation (France)	\$ -	\$ 417,428	\$ 417,428	\$ -	\$ -		
	Quality Assurance (France)	\$ -	\$ 14,176	\$ 14,176	\$ -	\$ -		
	Strategic Planning & Market Research (Hopkins)	\$ -	\$ 138,767	\$ 138,767	\$ -	\$ -		
	Mainstreaming Green (Ringel)	\$ -	\$ 119,027	\$ 119,027	\$ -	\$ -		
	Conservation Supply Curves ³ (Hopkins)	\$ -	\$ 51,629	\$ 51,629	\$ -	\$ -		
	EES Market Integration (Ringel)	\$ -	\$ 63,751	\$ 63,751	\$ -	\$ -		
	Energy Efficient Green Communities (Geenen)	\$ -	\$ 64,150	\$ 64,150	\$ -	\$ -		
G270	Local Infrastructure& Mkt Transformation (Rich/Brateng)	\$ -	\$ 3,026	\$ 3,026	\$ -	\$ -		
G261	Energy Efficient Technology Evaluation (Jackman)	\$ -	\$ 217	\$ 217	\$ -	\$ -		
	Third-Party Evaluation Review (per condition K(6)(g))	\$ -	\$ -	\$ -	\$ -	\$ -		
	Program Support (France)	\$ -	\$ 7,805	\$ 7,805	\$ -	\$ -		
	Total Support	\$ -	\$ 879,976	\$ 879,976	\$ -	\$ -		
	Grand Total All Gas Programs	\$ -	\$ 14,308,927.39	\$ 29,483,892.99	\$ 40,002,951.44	\$ -	2.80	1.36

1. The electric residential appliance program offers clothes washers which

Electric Conservation Cost Effectiveness Standard, 2012-2013

Includes Both Capacity, Energy, and Conservation Credit Applied to Energy and Capacity

Measure Life	Residential Space Heat	Residential Water Heat	OFFICE_SPACE_ HEAT_FURNACE	RESTAURANT_C OOKING	RESTAURANT_W ATER_HEAT	Industrial Flat
	Space Heat	Water Heat	Commercial Space	Commercial Cookin	Commercial Water	Flat
1	0.80	0.73	0.83	0.73	0.73	0.73
2	1.66	1.50	1.70	1.50	1.50	1.50
3	2.57	2.34	2.63	2.35	2.35	2.34
4	3.46	3.17	3.54	3.18	3.18	3.17
5	4.30	3.94	4.40	3.95	3.95	3.94
6	5.09	4.67	5.21	4.68	4.68	4.67
7	5.85	5.36	5.99	5.37	5.37	5.36
8	6.58	6.02	6.74	6.04	6.04	6.02
9	7.28	6.66	7.45	6.68	6.68	6.66
10	7.95	7.27	8.13	7.30	7.30	7.27
11	8.58	7.85	8.77	7.88	7.88	7.85
12	9.18	8.41	9.39	8.43	8.43	8.41
13	9.76	8.94	9.97	8.97	8.97	8.94
14	10.30	9.45	10.53	9.48	9.48	9.45
15	10.83	9.94	11.07	9.98	9.98	9.94
16	11.33	10.41	11.58	10.44	10.44	10.41
17	11.81	10.85	12.06	10.88	10.88	10.85
18	12.27	11.29	12.61	11.32	11.32	11.29
19	12.71	11.70	13.12	11.73	11.73	11.70
20	13.12	12.09	13.61	12.12	12.12	12.09
21	13.51	12.46	14.07	12.49	12.49	12.46
22	13.89	12.81	14.51	12.84	12.84	12.81
23	14.24	13.14	14.93	13.18	13.18	13.14
24	14.57	13.45	15.32	13.49	13.49	13.45
25	14.89	13.75	15.69	13.79	13.79	13.75
26	15.19	14.03	16.04	14.07	14.07	14.03
27	15.47	14.30	16.38	14.34	14.34	14.29
28	15.74	14.55	16.69	14.59	14.59	14.55
29	15.99	14.79	16.99	14.83	14.83	14.79
30	16.23	15.01	17.27	15.06	15.06	15.01

Electric Conservation Cost Effectiveness Standard, 2011

Includes Energy and Capacity and does NOT apply the conservation Credit to energy or capacity

Measure Life	Single Family Space Heat	Single Family Heat Pump	Multifamily Space Heat	Residential Water Heat	Residential Plug Load	Residential Lighting	Commercial Space Heat	Commercial Refrigeration	Commercial Cooling	Commercial Cooking	Commcerical Lighting	Commercial Flat
	SF Space Heat	SF Heat Pump	MF Space Heat	Res Water Heat	Plug Load	Res Lighting	Comm Space Heat	Comm Refrigeration	Comm Cooling	Comm Cooking	Comm Lighting	Flat
1	\$ 0.117	\$ 0.141	\$ 0.096	\$ 0.092	\$ 0.080	\$ 0.078	\$ 0.154	\$ 0.082	\$ 0.051	\$ 0.072	\$ 0.095	\$ 0.077
2	\$ 0.230	\$ 0.277	\$ 0.188	\$ 0.181	\$ 0.157	\$ 0.153	\$ 0.302	\$ 0.160	\$ 0.101	\$ 0.141	\$ 0.187	\$ 0.152
3	\$ 0.357	\$ 0.425	\$ 0.297	\$ 0.286	\$ 0.251	\$ 0.244	\$ 0.462	\$ 0.256	\$ 0.167	\$ 0.227	\$ 0.294	\$ 0.243
4	\$ 0.477	\$ 0.565	\$ 0.400	\$ 0.385	\$ 0.340	\$ 0.331	\$ 0.614	\$ 0.346	\$ 0.232	\$ 0.308	\$ 0.396	\$ 0.331
5	\$ 0.592	\$ 0.698	\$ 0.498	\$ 0.480	\$ 0.425	\$ 0.413	\$ 0.758	\$ 0.433	\$ 0.292	\$ 0.386	\$ 0.493	\$ 0.414
6	\$ 0.701	\$ 0.826	\$ 0.593	\$ 0.570	\$ 0.506	\$ 0.491	\$ 0.897	\$ 0.515	\$ 0.349	\$ 0.461	\$ 0.585	\$ 0.493
7	\$ 0.806	\$ 0.947	\$ 0.682	\$ 0.655	\$ 0.582	\$ 0.566	\$ 1.028	\$ 0.592	\$ 0.402	\$ 0.531	\$ 0.673	\$ 0.568
8	\$ 0.906	\$ 1.062	\$ 0.768	\$ 0.737	\$ 0.656	\$ 0.637	\$ 1.154	\$ 0.667	\$ 0.453	\$ 0.598	\$ 0.756	\$ 0.640
9	\$ 1.001	\$ 1.172	\$ 0.851	\$ 0.815	\$ 0.726	\$ 0.705	\$ 1.274	\$ 0.738	\$ 0.503	\$ 0.663	\$ 0.837	\$ 0.709
10	\$ 1.091	\$ 1.277	\$ 0.929	\$ 0.890	\$ 0.794	\$ 0.771	\$ 1.388	\$ 0.807	\$ 0.551	\$ 0.725	\$ 0.913	\$ 0.774
11	\$ 1.178	\$ 1.377	\$ 1.004	\$ 0.962	\$ 0.858	\$ 0.833	\$ 1.496	\$ 0.872	\$ 0.596	\$ 0.784	\$ 0.986	\$ 0.837
12	\$ 1.261	\$ 1.472	\$ 1.075	\$ 1.030	\$ 0.919	\$ 0.893	\$ 1.600	\$ 0.934	\$ 0.640	\$ 0.841	\$ 1.056	\$ 0.897
13	\$ 1.339	\$ 1.563	\$ 1.144	\$ 1.095	\$ 0.978	\$ 0.950	\$ 1.698	\$ 0.994	\$ 0.682	\$ 0.895	\$ 1.123	\$ 0.955
14	\$ 1.415	\$ 1.650	\$ 1.209	\$ 1.158	\$ 1.035	\$ 1.005	\$ 1.792	\$ 1.051	\$ 0.722	\$ 0.947	\$ 1.187	\$ 1.010
15	\$ 1.488	\$ 1.734	\$ 1.272	\$ 1.218	\$ 1.089	\$ 1.058	\$ 1.883	\$ 1.106	\$ 0.761	\$ 0.997	\$ 1.248	\$ 1.063
16	\$ 1.557	\$ 1.813	\$ 1.332	\$ 1.275	\$ 1.141	\$ 1.108	\$ 1.969	\$ 1.158	\$ 0.798	\$ 1.045	\$ 1.307	\$ 1.114
17	\$ 1.622	\$ 1.888	\$ 1.389	\$ 1.329	\$ 1.190	\$ 1.156	\$ 2.051	\$ 1.208	\$ 0.834	\$ 1.090	\$ 1.362	\$ 1.162
18	\$ 1.685	\$ 1.960	\$ 1.444	\$ 1.381	\$ 1.237	\$ 1.202	\$ 2.128	\$ 1.256	\$ 0.868	\$ 1.133	\$ 1.415	\$ 1.208
19	\$ 1.745	\$ 2.029	\$ 1.496	\$ 1.431	\$ 1.282	\$ 1.246	\$ 2.203	\$ 1.301	\$ 0.901	\$ 1.175	\$ 1.466	\$ 1.252
20	\$ 1.802	\$ 2.095	\$ 1.546	\$ 1.479	\$ 1.326	\$ 1.288	\$ 2.274	\$ 1.345	\$ 0.932	\$ 1.215	\$ 1.515	\$ 1.294
21	\$ 1.857	\$ 2.157	\$ 1.593	\$ 1.524	\$ 1.367	\$ 1.328	\$ 2.341	\$ 1.387	\$ 0.962	\$ 1.253	\$ 1.561	\$ 1.334
22	\$ 1.908	\$ 2.216	\$ 1.638	\$ 1.567	\$ 1.405	\$ 1.365	\$ 2.404	\$ 1.426	\$ 0.990	\$ 1.289	\$ 1.604	\$ 1.372
23	\$ 1.956	\$ 2.271	\$ 1.680	\$ 1.607	\$ 1.442	\$ 1.401	\$ 2.465	\$ 1.463	\$ 1.017	\$ 1.323	\$ 1.646	\$ 1.408
24	\$ 2.003	\$ 2.324	\$ 1.720	\$ 1.646	\$ 1.477	\$ 1.435	\$ 2.521	\$ 1.498	\$ 1.042	\$ 1.355	\$ 1.685	\$ 1.442
25	\$ 2.046	\$ 2.374	\$ 1.758	\$ 1.682	\$ 1.510	\$ 1.467	\$ 2.575	\$ 1.531	\$ 1.066	\$ 1.385	\$ 1.722	\$ 1.474
26	\$ 2.087	\$ 2.421	\$ 1.794	\$ 1.716	\$ 1.541	\$ 1.497	\$ 2.626	\$ 1.563	\$ 1.089	\$ 1.414	\$ 1.757	\$ 1.504
27	\$ 2.126	\$ 2.466	\$ 1.828	\$ 1.749	\$ 1.571	\$ 1.526	\$ 2.675	\$ 1.593	\$ 1.111	\$ 1.441	\$ 1.790	\$ 1.533
28	\$ 2.163	\$ 2.508	\$ 1.860	\$ 1.780	\$ 1.598	\$ 1.553	\$ 2.721	\$ 1.621	\$ 1.131	\$ 1.467	\$ 1.821	\$ 1.561
29	\$ 2.198	\$ 2.548	\$ 1.891	\$ 1.809	\$ 1.625	\$ 1.579	\$ 2.764	\$ 1.648	\$ 1.150	\$ 1.492	\$ 1.851	\$ 1.586
30	\$ 2.232	\$ 2.586	\$ 1.920	\$ 1.836	\$ 1.650	\$ 1.603	\$ 2.805	\$ 1.673	\$ 1.168	\$ 1.515	\$ 1.879	\$ 1.611

Electric Conservation Cost Effectiveness Standard, 2010-2011

Includes Both Capacity, Energy, and Conservation Credit Applied to Energy and Capacity

Measure Life	Single Family Space Heat	Single Family Heat Pump	Multifamily Space Heat	Residential Water Heat	Residential Plug Load	Residential Lighting	Commercial Space Heat	Commercial Refrigeration	Commercial Cooling	Commercial Cooking	Commcerical Lighting	Commercial Flat
	SF Space Heat	SF Heat Pump	MF Space Heat	Res Water Heat	Plug Load	Res Lighting	Comm Space Heat	Comm Refrigeration	Comm Cooling	Comm Cooking	Comm Lighting	Flat
1	\$ 0.129	0.155	0.105	0.102	0.088	\$ 0.086	0.170	0.090	0.056	0.079	0.105	0.085
2	\$ 0.253	0.305	0.207	0.199	0.173	\$ 0.168	0.333	0.177	0.111	0.155	0.206	0.167
3	\$ 0.393	0.467	0.326	0.314	0.276	\$ 0.268	0.508	0.281	0.184	0.249	0.323	0.268
4	\$ 0.525	0.622	0.440	0.424	0.374	\$ 0.364	0.675	0.381	0.255	0.339	0.436	0.364
5	\$ 0.651	0.768	0.548	0.528	0.467	\$ 0.454	0.834	0.476	0.321	0.425	0.542	0.455
6	\$ 0.772	0.908	0.652	0.627	0.556	\$ 0.541	0.986	0.566	0.384	0.507	0.644	0.542
7	\$ 0.886	1.041	0.751	0.721	0.641	\$ 0.622	1.131	0.652	0.442	0.584	0.740	0.624
8	\$ 0.996	1.168	0.845	0.811	0.721	\$ 0.701	1.269	0.734	0.498	0.658	0.832	0.704
9	\$ 1.101	1.290	0.936	0.897	0.799	\$ 0.776	1.401	0.812	0.553	0.729	0.920	0.779
10	\$ 1.201	1.405	1.022	0.979	0.873	\$ 0.848	1.526	0.887	0.606	0.797	1.005	0.852
11	\$ 1.296	1.515	1.104	1.058	0.944	\$ 0.916	1.646	0.959	0.656	0.862	1.085	0.921
12	\$ 1.387	1.620	1.183	1.133	1.011	\$ 0.982	1.760	1.027	0.704	0.925	1.162	0.987
13	\$ 1.473	1.720	1.258	1.205	1.076	\$ 1.045	1.868	1.093	0.750	0.984	1.235	1.050
14	\$ 1.556	1.815	1.330	1.273	1.138	\$ 1.105	1.971	1.156	0.795	1.041	1.305	1.111
15	\$ 1.636	1.907	1.399	1.340	1.198	\$ 1.163	2.071	1.217	0.837	1.097	1.373	1.170
16	\$ 1.712	1.994	1.465	1.402	1.255	\$ 1.219	2.166	1.274	0.878	1.149	1.437	1.225
17	\$ 1.784	2.077	1.528	1.462	1.309	\$ 1.271	2.256	1.329	0.917	1.199	1.498	1.278
18	\$ 1.853	2.156	1.588	1.519	1.361	\$ 1.322	2.341	1.381	0.955	1.247	1.557	1.328
19	\$ 1.920	2.232	1.646	1.574	1.411	\$ 1.370	2.423	1.432	0.991	1.293	1.613	1.377
20	\$ 1.983	2.304	1.700	1.627	1.458	\$ 1.416	2.501	1.480	1.025	1.337	1.666	1.424
21	\$ 2.042	2.372	1.752	1.676	1.503	\$ 1.460	2.575	1.525	1.058	1.378	1.717	1.468
22	\$ 2.099	2.437	1.802	1.723	1.546	\$ 1.502	2.645	1.568	1.089	1.418	1.765	1.509
23	\$ 2.152	2.498	1.848	1.768	1.586	\$ 1.541	2.711	1.609	1.119	1.455	1.810	1.549
24	\$ 2.203	2.556	1.892	1.810	1.625	\$ 1.578	2.774	1.648	1.147	1.490	1.853	1.586
25	\$ 2.251	2.611	1.934	1.850	1.661	\$ 1.614	2.833	1.684	1.173	1.524	1.894	1.621
26	\$ 2.296	2.663	1.974	1.888	1.695	\$ 1.647	2.889	1.719	1.198	1.555	1.933	1.655
27	\$ 2.339	2.712	2.011	1.924	1.728	\$ 1.679	2.942	1.752	1.222	1.585	1.969	1.687
28	\$ 2.380	2.759	2.047	1.957	1.758	\$ 1.709	2.993	1.783	1.244	1.614	2.004	1.717
29	\$ 2.418	2.803	2.080	1.990	1.787	\$ 1.737	3.040	1.812	1.265	1.641	2.036	1.745
30	\$ 2.455	2.845	2.112	2.020	1.815	\$ 1.764	3.085	1.840	1.285	1.666	2.067	1.772