



222 FAIRVIEW AVENUE N., SEATTLE WASHINGTON 98109-5312 206-624-3900
FACSIMILE 206-654-4039
www.cngc.com

May 22, 2009

Mr. Dave Danner
Secretary and Executive Director
Washington Utilities & Transportation Commission
1300 S. Evergreen Park Drive SW
Olympia, WA 98504-9022

Re: Supplement to 2008 Annual Decoupling Mechanism Report

Dear Mr. Danner:

Per the request of the WUTC and the Company's Conservation Advisory Group, Cascade Natural Gas submits the following supplemental document marked as Appendix B to its 2008 Annual Decoupling Mechanism Report. The 2008 Annual Decoupling Mechanism report was filed in compliance with Docket UG-060256 Order 06 on March 31, 2009. Appendix B to this document details the cost effectiveness analyses for the Company's Washington conservation programs for the 2008 calendar year.

Please direct any questions concerning this filing to Allison Spector at 206-381-6834.

Sincerely,

Allison Spector
Director
Conservation

Enclosures

"In The Community To Serve"

CASCADE NATURAL GAS CORPORATION
 Program Participant Cost Effectiveness Estimate Summary
 2008 Program Year

PROGRAM	MEASURE COUNT	TOTAL ANNUAL THERM SAVINGS	INSTALLED COSTS	NON-ENERGY BENEFITS (10% of cost)	WEIGHTED MEASURE LIFE	DISCOUNTED THERM SAVINGS	PROGRAM DELIVERY & ADMIN	TOTAL PROGRAM REBATE	PROGRAM UTILITY COST	UC W/DELIVERY & ADMIN	BENEFIT COST RATIO	PROGRAM TOTAL RESOURCE COST	TRC W/DELIVERY & ADMIN	BENEFIT COST RATIO
RESIDENTIAL	6,234	248,658	\$ 1,164,611.16	\$ 185,580.88	20.73	3,088,800	\$ 964,966.00	\$ 344,331.31	\$ 0.11	\$ 0.42	2.035	\$ 0.32	\$ 0.63	1.371
COMMERCIAL	117	191,837	\$ 608,179.60	\$ 60,817.96	19.19	2,369,558	\$ 403,662.52	\$ 217,671.30	\$ 0.09	\$ 0.26	3.209	\$ 0.23	\$ 0.40	3.643
LOW INCOME	125	13,985	\$ 130,959.29	\$ 13,095.93	26.74	220,713	\$ 97,362.00	\$ 115,339.35	\$ 0.52	\$ 0.96	0.812	\$ 0.53	\$ 0.98	0.802
TOTAL	6,476	454,480	\$ 1,903,750.04	\$ 259,494.77	20.26	5,679,071	\$ 1,465,990.52	\$ 677,341.96	\$ 0.12	\$ 0.38	7.189	\$ 0.29	\$ 0.55	2.098

Nominal interest rate (post tax cost of cap.) 7.63%
 Inflation rate 3.32%
 Long term real discount rate 4.17%

CASCADE NATURAL GAS CORPORATION
RESIDENTIAL Program Participant Cost Effectiveness Estimates
2006 PROGRAM YEAR

MEASURE	ZONE	EFFICIENCY RATING	MEASURE COUNT	ANNUAL THERM SAVINGS	TOTAL ANNUAL THERM SAVINGS	MEASURE INSTALLED COST	TOTAL ANNUAL COST	NON-ENERGY BENEFITS (10% of cost)	MEASURE LIFE	DISCOUNTED THERM SAVINGS	PROGRAM DELIVERY & ADMIN	PROGRAM REBATE	TOTAL REBATES COST	UTILITY COST	UC W/DELIVERY & ADMIN	BENEFIT COST RATIO	TOTAL RESOURCE COST	TRC W/DELIVERY & ADMIN	BENEFIT COST RATIO
Energy * Qualified Gas	1	90% AFUE Rating	141	95	13,395	\$ 1,000.00	\$ 141,000.00	\$ 14,100.00	30	226,920	\$ 70,891.56	\$ 350.00	\$ 49,350.00	\$ 0.217	\$ 0.530	1.470	\$ 0.559	\$ 0.872	0.894
Energy * Qualified Gas	2	90% AFUE Rating	30	102	3,600	\$ 1,000.00	\$ 30,000.00	\$ 3,000.00	30	51,838	\$ 16,947.71	\$ 350.00	\$ 10,500.00	\$ 0.203	\$ 0.515	1.513	\$ 0.521	\$ 0.833	0.935
Energy * Qualified Gas	3	90% AFUE Rating	8	126	1,008	\$ 1,000.00	\$ 8,000.00	\$ 800.00	30	17,076	\$ 5,374.73	\$ 350.00	\$ 2,800.00	\$ 0.164	\$ 0.476	1.636	\$ 0.422	\$ 0.734	1.061
Energy * Plus	1	Federal Tax Credit Eligible	1	221	221	\$ 3,700.00	\$ 3,700.00	\$ 370.00	30	3,744	\$ 1,169.62	\$ 750.00	\$ 750.00	\$ 0.200	\$ 0.513	1.520	\$ 0.889	\$ 1.202	0.648
Energy * Plus	2	Federal Tax Credit Eligible	14	225	1,260	\$ 3,700.00	\$ 51,800.00	\$ 5,180.00	30	15,735	\$ 17,411.96	\$ 750.00	\$ 10,500.00	\$ 0.188	\$ 0.501	1.556	\$ 0.936	\$ 1.149	0.678
Energy * Plus	3	Federal Tax Credit Eligible	0	296	0	\$ 3,700.00	\$ -	\$ -	30	0	\$ -	\$ 750.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
90% AFUE Gas Furn Upgrade E*	1	95% AFUE Rating	1	124	124	\$ 1,000.00	\$ 1,000.00	\$ 100.00	30	2,101	\$ 656.26	\$ 150.00	\$ 150.00	\$ 0.071	\$ 0.384	2.030	\$ 0.428	\$ 0.741	1.052
95% AFUE Gas Furn Upgrade E*	2	95% AFUE Rating	2	118	236	\$ 1,000.00	\$ 2,000.00	\$ 200.00	30	3,998	\$ 1,249.00	\$ 150.00	\$ 300.00	\$ 0.075	\$ 0.387	2.011	\$ 0.450	\$ 0.763	1.022
95% AFUE Gas Furn Upgrade E*	3	95% AFUE Rating	1	142	142	\$ 1,000.00	\$ 1,000.00	\$ 100.00	30	2,406	\$ 751.52	\$ 150.00	\$ 150.00	\$ 0.082	\$ 0.375	2.079	\$ 0.374	\$ 0.687	1.135
90% Furnace & PTCS Duct Sealing	1	90% AFUE Rating	3	173	519	\$ 1,250.00	\$ 3,750.00	\$ 375.00	20	6,948	\$ 2,170.73	\$ 300.00	\$ 900.00	\$ 0.130	\$ 0.442	1.811	\$ 0.486	\$ 0.798	1.003
90% Furnace & PTCS Duct Sealing	2	90% AFUE Rating	2	160	320	\$ 1,250.00	\$ 2,500.00	\$ 250.00	20	4,284	\$ 1,338.41	\$ 300.00	\$ 600.00	\$ 0.140	\$ 0.452	1.769	\$ 0.525	\$ 0.838	0.956
90% AFUE New Gas Furnace (New)	3	90% AFUE Rating	2	65	420	\$ 1,250.00	\$ 2,500.00	\$ 250.00	20	5,623	\$ 1,756.66	\$ 300.00	\$ 600.00	\$ 0.167	\$ 0.419	1.910	\$ 0.400	\$ 0.713	1.123
PTCS Duct Sealing	1	PTCS Certified Duct Sealing	0	88	0	\$ 800.00	\$ -	\$ -	20	0	\$ -	\$ 150.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PTCS Duct Sealing	2	PTCS Certified Duct Sealing	0	77	0	\$ 800.00	\$ -	\$ -	20	0	\$ -	\$ 150.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PTCS Duct Sealing	3	PTCS Certified Duct Sealing	0	113	0	\$ 800.00	\$ -	\$ -	20	0	\$ -	\$ 150.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
90% AFUE New Gas Furnace (New)	1	90% AFUE Rating	0	61	0	\$ 500.00	\$ -	\$ -	18	0	\$ -	\$ 150.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
90% AFUE New Gas Furnace (New)	2	90% AFUE Rating	0	81	0	\$ 500.00	\$ -	\$ -	18	0	\$ -	\$ 150.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
90% AFUE New Gas Furnace (New)	3	90% AFUE Rating	0	65	0	\$ 500.00	\$ -	\$ -	18	0	\$ -	\$ 150.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
90% AFUE New Gas Furnace (Existing)	1	90% AFUE Rating	453	81	36,693	\$ 800.00	\$ 362,400.00	\$ 36,240.00	18	458,155	\$ 143,131.20	\$ 150.00	\$ 67,950.00	\$ 0.148	\$ 0.461	1.755	\$ 0.712	\$ 1.024	0.789
90% AFUE New Gas Furnace (Existing)	2	90% AFUE Rating	81	75	6,075	\$ 800.00	\$ 64,800.00	\$ 6,480.00	18	75,833	\$ 23,007.22	\$ 150.00	\$ 12,150.00	\$ 0.166	\$ 0.473	1.711	\$ 0.769	\$ 1.081	0.748
90% AFUE New Gas Furnace (Existing)	3	90% AFUE Rating	118	99	11,682	\$ 800.00	\$ 94,400.00	\$ 9,440.00	18	145,863	\$ 45,588.87	\$ 150.00	\$ 17,700.00	\$ 0.121	\$ 0.434	1.864	\$ 0.582	\$ 0.895	0.903
81 Tankless Water Heater (replace & new)	1	0.81 Energy Factor	202	43	8,886	\$ 800.00	\$ 161,600.00	\$ 16,160.00	20	116,288	\$ 36,329.41	\$ 200.00	\$ 40,400.00	\$ 0.347	\$ 0.660	1.213	\$ 1.251	\$ 1.563	0.512
81 Tankless Water Heater (replace & new)	2	0.81 Energy Factor	51	43	2,193	\$ 800.00	\$ 40,800.00	\$ 4,080.00	20	29,360	\$ 9,172.28	\$ 200.00	\$ 10,200.00	\$ 0.347	\$ 0.660	1.213	\$ 1.251	\$ 1.563	0.512
81 Tankless Water Heater (replace & new)	3	0.81 Energy Factor	22	43	946	\$ 800.00	\$ 17,600.00	\$ 1,760.00	20	12,665	\$ 3,956.67	\$ 200.00	\$ 4,400.00	\$ 0.347	\$ 0.660	1.213	\$ 1.251	\$ 1.563	0.512
Upgrade to Tankless Water Heater	1	0.81 EF Above Energy Star Home	0	43	0	\$ 800.00	\$ -	\$ -	20	0	\$ -	\$ 100.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Upgrade to Tankless Water Heater	2	0.81 EF Above Energy Star Home	15	43	645	\$ 800.00	\$ 12,000.00	\$ 1,200.00	20	8,635	\$ 2,697.73	\$ 100.00	\$ 1,500.00	\$ 0.174	\$ 0.486	1.646	\$ 1.251	\$ 1.563	0.512
Upgrade to Tankless Water Heater	3	0.81 EF Above Energy Star Home	1	43	43	\$ 800.00	\$ 800.00	\$ 80.00	20	576	\$ 179.85	\$ 100.00	\$ 100.00	\$ 0.174	\$ 0.486	1.646	\$ 1.251	\$ 1.563	0.512
2.0 MEF E* Clothes Washer	1	2.0 MEF	345	13	4,485	\$ 113.00	\$ 38,985.00	\$ 3,923.66	12	41,680	\$ 13,021.14	\$ 75.00	\$ 25,875.00	\$ 0.621	\$ 0.933	0.918	\$ 0.287	\$ 0.026	33.270
2.0 MEF E* Clothes Washer	2	2.0 MEF	65	13	845	\$ 113.00	\$ 7,345.00	\$ 956.01	12	7,853	\$ 2,453.26	\$ 75.00	\$ 4,875.00	\$ 0.621	\$ 0.933	0.918	\$ 0.287	\$ 0.026	33.270
2.0 MEF E* Clothes Washer	3	2.0 MEF	97	13	1,261	\$ 113.00	\$ 10,961.00	\$ 1,432.20	12	11,719	\$ 3,661.01	\$ 75.00	\$ 7,275.00	\$ 0.621	\$ 0.933	0.918	\$ 0.287	\$ 0.026	33.270
80% AFUE Hearth	1	80% AFUE Rating	1	80	80	\$ 400.00	\$ 400.00	\$ 40.00	20	1,071	\$ 334.60	\$ 70.00	\$ 70.00	\$ 0.065	\$ 0.378	2.119	\$ 0.336	\$ 0.649	1.234
80% AFUE Hearth	2	80% AFUE Rating	0	80	0	\$ 400.00	\$ -	\$ -	20	0	\$ -	\$ 70.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
80% AFUE Hearth	3	80% AFUE Rating	1	80	80	\$ 400.00	\$ 400.00	\$ 40.00	20	1,071	\$ 334.60	\$ 70.00	\$ 70.00	\$ 0.065	\$ 0.378	2.119	\$ 0.336	\$ 0.649	1.234
80% AFUE Hearth Upgrade	0	80% AFUE Rating	0	80	0	\$ 400.00	\$ -	\$ -	20	0	\$ -	\$ 70.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
80% AFUE Hearth Upgrade	2	80% AFUE Rating	0	80	0	\$ 400.00	\$ -	\$ -	20	0	\$ -	\$ 70.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
80% AFUE Hearth Upgrade	3	80% AFUE Rating	0	80	0	\$ 400.00	\$ -	\$ -	20	0	\$ -	\$ 70.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
62 Water Heater	1	0.62 Energy Factor or Greater	191	13	1,183	\$ 100.00	\$ 9,100.00	\$ 910.00	12	10,994	\$ 3,434.56	\$ 25.00	\$ 2,275.00	\$ 0.207	\$ 0.519	1.650	\$ 0.745	\$ 1.057	0.810
62 Water Heater	2	0.62 Energy Factor or Greater	139	13	1,807	\$ 100.00	\$ 13,900.00	\$ 1,390.00	12	16,793	\$ 5,246.20	\$ 25.00	\$ 3,475.00	\$ 0.207	\$ 0.519	1.650	\$ 0.745	\$ 1.057	0.810
62 Water Heater	3	0.62 Energy Factor or Greater	23	13	299	\$ 100.00	\$ 2,300.00	\$ 230.00	12	2,779	\$ 868.08	\$ 25.00	\$ 575.00	\$ 0.207	\$ 0.519	1.650	\$ 0.745	\$ 1.057	0.810
Ceiling Insulation	1	Equal to or Greater than R-38	10,654	0.057	10,654	\$ 0.57	\$ 6,010.24	\$ 601.02	45	214,448	\$ 66,995.28	\$ 0.25	\$ 2,638.50	\$ 0.012	\$ 0.325	2.332	\$ 0.025	\$ 0.338	2.243
Ceiling Insulation	2	Equal to or Greater than R-38	2,177	0.055	2,177	\$ 0.56	\$ 1,227.95	\$ 122.80	45	43,902	\$ 13,715.32	\$ 0.25	\$ 544.25	\$ 0.012	\$ 0.325	2.332	\$ 0.025	\$ 0.338	2.243
Ceiling Insulation	3	Equal to or Greater than R-38	7,358	0.065	7,358	\$ 0.57	\$ 4,166.82	\$ 416.68	45	148,383	\$ 46,361.51	\$ 0.25	\$ 1,839.50	\$ 0.012	\$ 0.325	2.332	\$ 0.025	\$ 0.338	2.243
Floor Insulation	1	Equal to or Greater than R-30 or to fill cavity	13,517	0.057	13,517	\$ 0.57	\$ 7,639.68	\$ 763.97	45	272,887	\$ 85,158.47	\$ 0.45	\$ 6,082.65	\$ 0.022	\$ 0.338	2.263	\$ 0.025	\$ 0.338	2.243
Floor Insulation	2	Equal to or Greater than R-30 or to fill cavity	2,104	0.055	2,104	\$ 0.56	\$ 1,186.78	\$ 118.68	45	42,430	\$ 13,255.41	\$ 0.45	\$ 946.80	\$ 0.022	\$ 0.338	2.263	\$ 0.025	\$ 0.338	2.243
Floor Insulation	3	Equal to or Greater than R-30 or to fill cavity	4,170	0.065	4,170	\$ 0.57	\$ 2,361.46	\$ 236.15	45	84,093	\$ 26,271.42	\$ 0.45	\$ 1,876.50	\$ 0.022	\$ 0.338	2.263	\$ 0.025	\$ 0.338	2.243
Wall Insulation	1	Equal to or Greater than R-11 to fill cavity	3,827	0.067	3,827	\$ 0.66	\$ 2,542.46	\$ 254.25	45	77,176	\$ 24,110.49	\$ 0.30	\$ 1,148.10	\$ 0.018	\$ 0.327	2.314	\$ 0.030	\$ 0.342	2.214
Wall Insulation	2	Equal to or Greater than R-11 to fill cavity	802	0.065	802	\$ 0.67	\$ 534.62	\$ 53.46	45	10,173	\$ 5,002.68	\$ 0.30	\$ 240.60	\$ 0.018	\$ 0.327	2.314	\$ 0.030	\$ 0.342	2.213
Wall Insulation	3	Equal to or Greater than R-11 to fill cavity	2,349	0.076	2,349	\$ 0.66	\$ 1,555.35	\$ 155.53	45	47,371	\$ 14,798.94	\$ 0.30	\$ 704.70	\$ 0.018	\$ 0.327	2.314	\$ 0.030	\$ 0.342	2.215
Energy Saver Kit (Direct Distribution)	1	Low Flow Showerhead plus Aerators	15	17	255	\$ 7.80	\$ 117.00	\$ 11.70	10	2,051	\$ 640.71	\$ 7.80	\$ 117.00	\$ 0.057	\$ 0.369	2.367	\$ 0.051	\$ 0.364	2.405
Energy Saver Kit (Direct Distribution)	2	Low Flow Showerhead plus Aerators	15	17	255	\$ 7.80	\$ 117.00	\$ 11.70	10	2,051	\$ 640.71	\$ 7.80	\$ 117.00	\$ 0.057	\$ 0.369	2.367	\$ 0.051	\$ 0.364	2.405
Energy Saver Kit (Direct Distribution)	3	Low Flow Showerhead plus Aerators	15	17	255	\$ 7.80	\$ 117.00	\$ 11.70	10	2,051	\$ 640.71	\$ 7.80	\$ 117.00	\$ 0.057	\$ 0.369	2.367	\$ 0.051	\$ 0.364	2.405
Energy Saver Kit (Kit 1)	1	Low Flow Showerhead plus Aerators	203	17	3,451	\$ 10.00	\$ 2,030.00	\$ 203.00	10	27,755	\$ 8,670.98	\$ 10.00	\$ 2,186.66	\$ 0.079	\$ 0.391	2.236	\$ 0.066	\$ 0.378	2.313
Energy Saver Kit (Kit 1)	2	Low Flow Showerhead plus Aerators	204	17	3,468	\$ 10.00	\$ 2,040.00	\$ 204.00	10	27,982	\$ 8,713.70	\$ 10.00	\$ 2,186.67	\$ 0.079	\$ 0.391	2.238	\$ 0.066	\$ 0.378	2.313
Energy Saver Kit (Kit 1)	3	Low Flow Showerhead plus Aerators	204	17	3,468	\$ 10.00													

CASCADE NATURAL GAS CORPORATION
Commercial Program Participant Cost Effectiveness Estimates
2008 PROGRAM YEAR

MEASURE	DESCRIPTION	EFFICIENCY TYPE FOR QUALIFICATION	MEASURE COUNT	ANNUAL THERM SAVINGS	UNITS	TOTAL ANNUAL SAVINGS	MEASURE INSTALLED COST	TOTAL ANNUAL COST	NON-ENERGY BENEFITS (0% of cost)	MEASURE LIFE	DISCOUNTED THERM SAVINGS	PROGRAM DELIVERER & ADMIN	PROGRAM REBATE	UNITS	TOTAL REBATES COST	UTILITY COST	FC & ADMIN	BENEFIT COST RATIO	TOTAL RESOURCE COST	THE WIDELYVEY & ADMIN	BENEFIT COST RATIO
BVAC Unit Heater	High-Efficiency Non-Condensing with Electronic Ignition	Minimum 86% AFUE	0	1.10	kBtu/yr	0	\$ 6.72	\$ -	-	18	0	-	\$ 1.50	kBtu/yr	\$ -	\$ -	\$ -	-	\$ -	\$ -	-
BVAC Unit Heater	High Efficiency Condensing	Minimum 92% AFUE	0	1.10	kBtu/yr	0	\$ 6.72	\$ -	-	18	0	-	\$ 3.00	kBtu/yr	\$ -	\$ -	\$ -	-	\$ -	\$ -	-
Warm Air Furnace ~225,000 kbtu	High Efficiency Condensing Furnace	Minimum 91% AFUE	31	1.10	kBtu/yr	3,433	\$ 6.72	\$ 20,975	\$ 2,097	18	42,865	\$ 5,074	\$ 3.00	kBtu/yr	\$ 9,363	\$ 0.218	\$ 0.331	2,365	\$ 0.440	\$ 0.573	1,836
Radant Heating Installation	None	None	7	4.33	sq ft	3,479	\$ 21.00	\$ 5,250	\$ 25	18	45,917	\$ 6,801	\$ 6.50	kBtu/yr	\$ 5,525	\$ 0.128	\$ 0.251	2,360	\$ 0.103	\$ 0.251	7,860
Insulation	Attic Insulation	Minimum R-19	3	0.18	sq ft	987	\$ 0.80	\$ 4,400	\$ 450	30	16,750	\$ 1,011	\$ 0.20	sq ft	\$ 1,124	\$ 0.061	\$ 0.165	4,729	\$ 0.242	\$ 0.340	3,220
Insulation	Roof Insulation	Minimum R-11	6	0.24	sq ft	1,671	\$ 0.90	\$ 6,576	\$ 361	30	279,629	\$ 27,223	\$ 0.20	sq ft	\$ 13,830	\$ 0.050	\$ 0.147	5,205	\$ 0.212	\$ 0.310	3,675
Insulation	Wall Insulation	Minimum R-11	5	0.16	sq ft	2,828	\$ 0.55	\$ 9,971	\$ 997	30	47,908	\$ 4,676	\$ 0.20	sq ft	\$ 16,260	\$ 0.075	\$ 0.171	4,407	\$ 0.107	\$ 0.281	4,160
Domestic Hot Water Tanks	Condensing Tank	Minimum 91% AFUE or 91% Thermal Efficiency	3	0.70	kBtu/yr	473	\$ 4.00	\$ 3,629	\$ 363	15	5,197	\$ 792	\$ 2.00	kBtu/yr	\$ 1,490	\$ 0.208	\$ 0.419	1,891	\$ 0.628	\$ 0.779	1,319
Domestic Tankless/Instantaneous Water Heaters	With Standing Pilot	Minimum 78% Energy Factor	6	21.70	gpm	6	\$ 84.00	\$ -	-	18	0	-	-	gpm	-	-	-	-	-	-	-
Domestic Tankless/Instantaneous Water Heaters	With Electric Ignition	Minimum 78% AFUE	15	21.70	gpm	2,761	\$ 17,000	\$ 14,882	\$ 1,481	18	18,474	\$ 4,563	\$ 40.00	gpm	\$ 3,080	\$ 0.148	\$ 0.280	2,888	\$ 0.380	\$ 0.521	2,081
Boiler	High Efficiency Condensing Boiler with Electronic Ignition	Minimum 90% AFUE and 90 kbtu input	6	0.88	kBtu/yr	6,556	\$ 7.72	\$ 11,171	\$ 1,184	20	87,722	\$ 10,816	\$ 2.00	kBtu/yr	\$ 16,900	\$ 0.174	\$ 0.201	2,710	\$ 0.115	\$ 0.228	4,984
Boiler Vent Dumper	Boiler Vent Dumper	Minimum 1,000 kbtu input	0	0.30	kBtu/yr	0	\$ 1.50	\$ -	-	12	0	-	\$ 1.00	kBtu/yr	\$ -	\$ -	\$ -	-	\$ -	\$ -	-
Gas Fryer	Energy Star	None	0	540.00	each	0	\$ 1,800.00	\$ -	-	8	0	-	\$ 600.00	each	\$ -	\$ -	\$ -	-	\$ -	\$ -	-
Gas Convection Oven	Energy Star	None	10	564.00	each	5,640	\$ 2,000.00	\$ 20,000	\$ 2,000	12	52,414	\$ 9,322	\$ 600.00	each	\$ 6,000	\$ 0.114	\$ 0.292	2,931	\$ 0.343	\$ 0.521	2,495
Gas Griddle	Energy Star	None	0	427.00	each	0	\$ 1,800.00	\$ -	-	12	0	-	\$ 600.00	each	\$ -	\$ -	\$ -	-	\$ -	\$ -	-
Clothes Washer	Commercial Gas Washer	13 MEF	3	90.00	each	270	\$ 200.00	\$ 600	\$ 60	10	2,172	\$ 446	\$ 500.00	each	\$ 540	\$ 0.240	\$ 0.454	1,926	\$ 0.240	\$ 0.454	3,517
Custom Measures																					
RI Energy, LLC	Custom Batch Boiler	Custom Batch Boiler	1	1,161.00	each	1,161	\$ 7,653.00	\$ 7,653	\$ 766	12	10,789	\$ 2,395	\$ 2,247.00	each	\$ 2,247	\$ 0.208	\$ 0.449	1,969	\$ 0.630	\$ 0.879	1,342
Renard City Foods	Custom Batch Boiler	Custom Batch Boiler	4	1,161.00	each	4,666	\$ 7,653.00	\$ 45,930	\$ 4,593	12	64,736	\$ 15,569	\$ 13,482.00	each	\$ 13,482	\$ 0.208	\$ 0.449	1,909	\$ 0.630	\$ 0.879	1,342
RI Energy	Custom Batch Boiler	Custom Batch Boiler	2	1,161.00	each	2,322	\$ 7,653.00	\$ 15,310	\$ 1,531	12	21,579	\$ 5,190	\$ 4,494.00	each	\$ 4,494	\$ 0.208	\$ 0.449	1,909	\$ 0.630	\$ 0.879	1,342
Renard City Foods	Custom Batch Boiler	Custom Batch Boiler	1	1,161.00	each	1,161	\$ 7,653.00	\$ 7,653	\$ 766	12	10,789	\$ 2,395	\$ 2,247.00	each	\$ 2,247	\$ 0.208	\$ 0.449	1,909	\$ 0.630	\$ 0.879	1,342
South Sound Restaurants	Custom Batch Boiler	Custom Batch Boiler	2	1,161.00	each	2,322	\$ 7,653.00	\$ 15,310	\$ 1,531	12	21,579	\$ 5,190	\$ 4,494.00	each	\$ 4,494	\$ 0.208	\$ 0.449	1,909	\$ 0.630	\$ 0.879	1,342
Papa John's Restaurants	Custom Batch Boiler	Custom Batch Boiler	2	1,161.00	each	2,322	\$ 7,653.00	\$ 15,310	\$ 1,531	12	21,579	\$ 5,190	\$ 4,494.00	each	\$ 4,494	\$ 0.208	\$ 0.449	1,909	\$ 0.630	\$ 0.879	1,342
McCup	Custom Batch Boiler	Custom Batch Boiler	3	1,161.00	each	3,483	\$ 7,653.00	\$ 22,965	\$ 2,297	12	32,368	\$ 7,784	\$ 6,741.00	each	\$ 6,741	\$ 0.208	\$ 0.449	1,909	\$ 0.630	\$ 0.879	1,342
Case Foods Corp	Custom Batch Boiler	Custom Batch Boiler	1	1,161.00	each	1,161	\$ 7,653.00	\$ 7,653	\$ 766	12	32,368	\$ 7,784	\$ 6,741.00	each	\$ 6,741	\$ 0.208	\$ 0.449	1,909	\$ 0.630	\$ 0.879	1,342
Fourth Corner Oils	2.5" polystyrene insulation	2.5" polystyrene insulation	1	172.00	each	172	\$ 1,500.00	\$ 1,300	\$ 150	8	1,150	\$ 184	\$ 314.00	each	\$ 314	\$ 0.447	\$ 0.791	1,144	\$ 1,174	\$ 1,508	970
Trident Seafoods	Heat Boiler	Heat Boiler	1	2,710.00	each	2,710	\$ 34,000.00	\$ 34,000	\$ 3,400	25	36,063	\$ 5,322	\$ 7,023.00	each	\$ 7,023	\$ 0.194	\$ 0.340	2,317	\$ 0.849	\$ 0.961	920
Harbort Structures	Slab Radiant Heating	Slab Radiant Heating	1	362.00	each	362	\$ 4,900.00	\$ 4,900	\$ 490	20	4,846	\$ 809	\$ 953.00	each	\$ 953	\$ 0.197	\$ 0.384	2,199	\$ 0.910	\$ 1,077	800
Trident Seafoods	Stack Economizer	Stack Economizer	1	40,223.00	each	40,223	\$ 34,000.00	\$ 34,000	\$ 4,000	25	924,129	\$ 134,996	\$ 21,107.00	each	\$ 21,107	\$ 0.023	\$ 0.171	4,622	\$ 0.033	\$ 0.119	21,883
Trident Seafoods	Industrial piping insulation	Industrial piping insulation	1	11,689.00	each	11,689	\$ 17,900.00	\$ 17,900	\$ 1,790	25	179,369	\$ 26,123	\$ 8,950.00	each	\$ 8,950	\$ 0.050	\$ 0.196	4,014	\$ 0.090	\$ 0.215	4,781
Harford Creek Correctional	HVAC Commissioning	HVAC Commissioning	1	2,715.00	each	2,715	\$ 53,800.00	\$ 53,800	\$ 5,380	2	144,968	\$ 73,118	\$ 20,944.00	each	\$ 20,944	\$ 0.186	\$ 0.400	1,333	\$ 0.335	\$ 0.839	2,751
Harford Creek Correctional	Boiler	Boiler	1	14,800.00	each	14,800	\$ 121,500.00	\$ 121,500	\$ 12,150	20	188,503	\$ 31,460	\$ 21,000.00	each	\$ 21,000	\$ 0.171	\$ 0.317	2,377	\$ 0.590	\$ 0.751	1,151
Paces School District	Roof Insulation	Roof Insulation	1	3,928.00	each	3,928	\$ 28,400.00	\$ 28,400	\$ 2,840	25	60,276	\$ 8,779	\$ 11,739.00	each	\$ 11,739	\$ 0.195	\$ 0.340	2,317	\$ 0.427	\$ 0.573	1,847
TOTAL PROGRAM			117			49,837		498,308	56,418	19.10	2,307,558		402,663		217,671	\$ 0.691	0.522	2,289	\$ 0.231	\$ 6.481	3,644

Nominal interest rate (post tax cost of cap.) 7.63%
Inflation rate 3.32%
Long term real discount rate 4.17%

CASCADE NATURAL GAS CORPORATION
 LOW INCOME Program Participant Cost Effectiveness Estimates
 2008 PROGRAM YEAR

MEASURE	MEASURE COUNT	TOTAL ANNUAL THERM SAVINGS	MEASURE INSTALLED COST	NON-ENERGY BENEFITS (10% of cost)	MEASURE LIFE	DISCOUNTED THERM SAVINGS	PROGRAM DELIVERY & ADMIN	PROGRAM REBATE	UTILITY COST	UC W/DELIVERY & ADMIN	BENEFIT COST RATIO	TOTAL RESOURCE COST	TRC W/DELIVERY & ADMIN	BENEFIT COST RATIO
Attic/Ceiling Insulation	25	2,607	\$ 32,416	\$ 3,242	30	44,171	\$ 18,152	\$ 29,164	\$ 0.660	\$ 1.071	0.727	\$ 0.660	\$ 1.071	0.727
Floor Insulation	25	3,106	\$ 38,600	\$ 3,860	30	52,610	\$ 21,620	\$ 32,868	\$ 0.625	\$ 1.036	0.752	\$ 0.660	\$ 1.071	0.727
Wall Insulation	19	3,711	\$ 32,465	\$ 3,247	30	62,969	\$ 25,836	\$ 30,345	\$ 0.483	\$ 0.894	0.872	\$ 0.465	\$ 0.876	0.890
Duct Insulation	21	2,605	\$ 16,468	\$ 1,647	20	34,878	\$ 18,137	\$ 13,912	\$ 0.399	\$ 0.919	0.871	\$ 0.425	\$ 0.945	0.847
Air Infiltration Reduction	35	1,956	\$ 11,009	\$ 1,101	20	26,186	\$ 13,617	\$ 9,051	\$ 0.346	\$ 0.866	0.925	\$ 0.378	\$ 0.898	0.891
TOTAL PROGRAM	125	13,985	\$ 130,959	\$ 13,096	26.74	220,713	\$ 97,362	\$ 115,339	\$ 0.523	\$ 0.964	0.812	\$ 0.534	\$ 0.978	0.802

Nominal interest rate (post tax cost of cap) 7.63%
 Inflation rate 3.32%
 Long term real discount rate 4.17%