

| Gas Product Detailed Technical Assumptions | | | | | | | | | | | | | | | | | | | Program Forecast Inputs | | Stipulated Forecast Inputs | | | Program Forecast Outputs | | |
|---|--|---|--|--|---------------------------------------|-------------------------|-----------------------|-------------------------------|---|------------------------------|-----------------------------------|--|---|-------------------------------------|------------------------------------|---|------------------------|--------------------|-------------------------|----------------|--------------------------------|-----------------------|----------------------|--------------------------|-------------------------|----------------------------|
| Measure Description | | High Efficiency Product Assumptions | | Baseline Product Assumptions | | Economic Assumptions | | | | | Stipulated Output | | | | | | Economic Assumptions | | 2014 | | Valid Throughout Filing Period | | | 2014 | | |
| Natural Gas Measure Group | Natural Gas Measure Description | High Efficiency Product Description / Rating | High Efficiency Product Consumption (Dth/yr) | Baseline Product Description / Rating | Baseline Product Consumption (Dth/yr) | Life of Product (years) | Average Rebate Amount | Average Baseline Product Cost | Average Incremental Cost of Efficient Product | Assumed Energy Cost (\$/Dth) | Rebate as a % of Incremental Cost | Increment'l Cost Payback Period w/o Rebate | Increment'l Cost Payback Period with Rebate | Average Annual Customer Dth Savings | Average rebated cost per Dth Saved | Average rebated Lifetime cost per Dth Saved | Non-Energy O&M Savings | Energy O&M Savings | 2014 Participants (-) | 2014 Units (-) | NTG (%) | Installation Rate (%) | Realization Rate (%) | 2014 NET Dth (Dth) | 2014 Rebate Budget (\$) | 2014 Incremental Cost (\$) |
| TOTAL | | | | | | | | | | | | | | | | | | | 500 | 1,050 | | | | 8,235 | \$154,332 | \$632,168 |
| Attic Insulation | Attic Insulation | Addition of attic insulation to R-40 | 79 | R-19 average baseline existing level of insulation based on market study | 85 | 20 | \$118 | \$0 | \$354 | \$5.69 | 20% | 17.5151172 | 14.0120938 | 5.90 | \$19.93 | \$1.00 | \$0.00 | 0 | 210 | 441 | 94% | 100% | 100% | 2,446 | \$51,862 | \$259,308 |
| Air Sealing / bypass sealing and Weatherstripping | Air Sealing / bypass sealing and Weatherstripping Tier 2 minimum 25% reduction | 43 ACH in 2000 sq. ft. home w/ avg 28.4% reduction | 19 | 0.6 ACH in a 2000 sq. ft. home | 26 | 10 | \$95 | \$0 | \$338 | \$5.69 | 20% | 11.3247472 | 9.05984532 | 7.39 | \$12.89 | \$1.29 | \$0.00 | 0 | 132 | 277 | 94% | 100% | 100% | 1,925 | \$26,387 | \$131,938 |
| Air Sealing / bypass sealing and Weatherstripping | Air Sealing / bypass sealing and Weatherstripping Tier 3 minimum 33% reduction | 36 ACH in 2000 sq. ft. home w/ avg 39.7% reduction | 16 | 0.6 ACH in a 2000 sq. ft. home | 26 | 10 | \$119 | \$0 | \$386 | \$5.69 | 20% | 10.1641625 | 8.13133004 | 10.32 | \$11.57 | \$1.16 | \$0.00 | 0 | 66 | 138 | 94% | 100% | 100% | 1,339 | \$16,479 | \$82,393 |
| Wall Insulation: sub-siding or cavity | Wall insulation: sub-siding or cavity | R-11 insulation in wall cavity (assuming retrofit wall is 2x4 | 71 | For this measure the baseline must have no existing wall cavity insulation | 104 | 20 | \$800 | \$0 | \$1,410 | \$5.69 | 37% | 11.6983247 | 7.34545969 | 32.30 | \$24.77 | \$1.24 | \$0.00 | 0 | 32 | 68 | 94% | 100% | 100% | 2,065 | \$54,400 | \$146,200 |
| Setback Thermostat | Setback Thermostat | Energy Star Programmable thermostat (assume 1 degree set back | 70 | standard programmable thermostat - not energy star | 71 | 5 | \$25 | \$0 | \$21 | \$5.69 | 50% | 8.94331768 | 4.47165884 | 0.98 | \$25.44 | \$5.09 | \$0.00 | 0 | 42 | 88 | 94% | 100% | 100% | 81 | \$2,200 | \$4,400 |
| New Furnace | 92 AFUE | Energy Star-recommended 92 AFUE | 56 | 80 AFUE is Federal Standard baseline efficiency for gas furnaces | 63 | 18 | \$479 | \$674 | \$776 | \$5.69 | 22% | 46.62656926 | 42.9822264 | 8.29 | \$29.73 | \$4.46 | \$0.00 | 0 | 0 | 0 | 94% | 100% | 100% | 0 | \$0 | \$0 |
| New Furnace | 94 AFUE | 94 AFUE | 54 | 80 AFUE is Federal Standard baseline efficiency for gas furnaces | 63 | 18 | \$200 | \$674 | \$834 | \$5.69 | 24% | 35.6549284 | 11.9014067 | 9.36 | \$21.36 | \$4.19 | \$0.00 | 0 | 0 | 0 | 94% | 100% | 100% | 0 | \$0 | \$0 |
| New Furnace | 95% AFUE | 95% AFUE | 53 | 80% AFUE is Federal Standard baseline efficiency for gas furnaces | 63 | 18 | \$200 | \$2,076 | \$290 | \$5.69 | 38% | 9.20483929 | 5.66418688 | 9.93 | \$20.15 | \$1.12 | \$0.00 | 0 | 4 | 9 | 94% | 100% | 100% | 84 | \$1,800 | \$4,680 |
| New Boiler | 85% AFUE Boiler | 85% AFUE Boiler | 60 | 80 AFUE is Federal Standard for gas boilers | 64 | 20 | \$200 | \$3,334 | \$934 | \$5.69 | 21% | 43.8545186 | 34.4587995 | 3.74 | \$53.46 | \$2.67 | \$0.00 | 0 | 0 | 0 | 94% | 100% | 100% | 0 | \$0 | \$0 |
| New Water Heater | Tankless 0.90 EF | 0.90 EF Tankless Hot Water Heater Energy Star Standard | 16 | for 40 gallon tank .594 EF is IECC code | 24 | 20 | \$200 | \$1,441 | \$2,979.50 | \$5.69 | 7% | 63.4636435 | 59.2036238 | 8.25 | \$24.24 | \$1.21 | \$0.00 | 0 | 0 | 0 | 94% | 100% | 100% | 0 | \$0 | \$0 |
| New Water Heater | Power vented 0.67 EF | 0.67 EF Hot Water Heater Energy Star Standard in 2010 | 22 | for 40 gallon tank .594 EF is IECC code | 24 | 13 | \$100 | \$1,441 | \$1,034.50 | \$5.69 | 10% | 66.046869 | 59.6624448 | 2.75 | \$36.33 | \$2.79 | \$0.00 | 0 | 0 | 0 | 94% | 100% | 100% | 0 | \$0 | \$0 |
| New Appliances | 0.65 EF Dishwasher | 0.65 Energy Factor - Energy Star Recommended | 6 | 0.46 Energy Factor - Federal Minimum Standard | 19 | 11 | \$15 | \$0 | \$28 | \$5.69 | 50% | 0.41460604 | 0.20730302 | 12.72 | \$1.18 | \$0.11 | \$1.64 | 0 | 7 | 15 | 94% | 100% | 100% | 179 | \$225 | \$450 |
| New Appliances | Energy Star Clothes Washer | Energy Star Clothes washer | 21 | standard clothes washer | 30 | 11 | \$70 | \$0 | \$194 | \$5.69 | 35% | 3.99424828 | 2.59626138 | 8.80 | \$7.95 | \$0.72 | \$26.66 | 0 | 7 | 14 | 94% | 100% | 100% | 116 | \$980 | \$2,800 |

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|-------------------|
| EEE Input |
| PM Input |
| Stipulated Input |
| Stipulated Output |