

First Revision Sheet No. 301
Canceling Original Sheet No. 301

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CASCADE NATURAL GAS CORPORATION

LOW INCOME WEATHERIZATION INCENTIVE PROGRAM

AVAILABILITY:

This program is available to income-eligible residential dwellings served by Cascade Natural Gas where the primary heating equipment in the residential dwelling is fueled by natural gas. Any residential dwelling that received assistance for the installation of the same or similar measures under any other energy efficiency program will not be eligible for assistance under this program.

PROGRAM DESCRIPTION:

This program is designed to increase energy efficiency in low-income households within Cascade's service territory by providing rebates for the installation of certain energy efficiency measures in qualifying residential dwellings following the completion of a home energy evaluation performed by a qualifying Agency .

ELIGIBILITY:

To qualify for the program, the following guidelines must be met. The customer must be a residential customer of Cascade Natural Gas and must be certified as low-income by a Community Action Agency (CAA) or Low Income Agency (LIA). In addition, the customer must reside in a dwelling built prior to 1991, where the primary heating source is natural gas.

ENERGY EFFICIENCY MEASURES:

The following measures qualify for rebate under this program:

- Ceiling insulation
- Wall insulation
- Floor insulation
- Duct sealing and insulation
- Infiltration reduction

REBATE CALCULATION & PAYMENT:

Cascade will provide a rebate to participating Agencies for the installation of the measures listed above. The following formula will be used to calculate the rebate:

$$\text{Projected Annual Therm Savings of Measure(s)} \times 100\% \text{ of the Avoided Cost per Therm}$$

The rebate will not exceed the lesser of 100% of the Avoided cost of the annual therm savings or the installed cost of the measure.

The avoided cost per therm for 30 year measures is \$11.66 which is based on the Company's most recent Integrated Resource Plan, which is the 2010 IRP.

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GENERAL PROVISIONS:

The low-income weatherization investment costs associated with this program will be accounted for and recovered through a temporary technical adjustment mechanism in the deferral tracking portion of the Company's annual PGA filing. All installations of weatherization must comply with all codes and permit requirements applicable in the state of Washington and must be properly inspected, if required, by appropriate agencies. The Company reserves the right to verify installation prior to payment of any rebates.

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ISSUED January 7, 2011

EFFECTIVE February 7, 2011

ISSUED BY **CASCADE NATURAL GAS CORPORATION**

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CASCADE NATURAL GAS CORPORATION

COMMERCIAL/INDUSTRIAL CONSERVATION PROGRAM

AVAILABILITY:

This program is available throughout Cascade's Washington service territory to qualifying commercial and industrial customers served on rate schedules 504, 505, 511, 570, and 577 upon meeting the requirements contained in the following specifications section.

PROGRAM DESCRIPTION:

This program is designed to increase energy efficiency in commercial/industrial facilities within Cascade's service territory by providing rebates for the installation of certain energy efficiency measures in qualifying facilities.

MEASURES/INCENTIVES:

The following measures are deemed cost-effective and may be recommended under this program. Energy efficiency measures not listed may still be eligible for custom incentives providing the incremental costs of the measure does not exceed \$.75 per therm saved. Incentives for site-specific program measures will be based on 25% of the avoided cost savings of the measures, not to exceed 50% of the incremental cost of the measure. (T) (C)

Measure	Description	Efficiency Type For Qualification	Unit Incentive
HVAC Unit Heater	High-Efficiency Non-Condensing with Electronic Ignition	Minimum 86% AFUE	\$1.50/kBtu/hr
HVAC Unit Heater	High Efficiency Condensing	Minimum 92% AFUE	\$3.00/kBtu/hr
Warm Air Furnace	High Efficiency Condensing Furnace	Minimum 91% AFUE	\$3.00/kBtu/hr
Radiant Heating	Direct Fired Radiant Heating	None	\$6.50/kBtu/hr
Insulation	Attic Insulation (retrofit only)	Tier One: Minimum R-30 Tier Two: Minimum R-45	Tier One: \$0.50/sq. ft. Tier Two: \$0.65/sq. ft.
Insulation	Roof Insulation (retrofit only)	Tier One: Minimum R-21 Tier Two: Minimum R-30	Tier One: \$0.60/ sq. ft. Tier Two: \$0.80/ sq. ft.
Insulation	Wall Insulation (retrofit only)	Tier One: Minimum R-11 ¹ Tier Two: Minimum R-19	Tier One: \$0.30/ sq. ft. Tier Two: \$0.40/ sq. ft.
Domestic Hot Water Tanks	Condensing Tank	Minimum 91% AFUE or 91% Thermal Efficiency	\$2.50/kBtu/hr
Domestic Tankless/ Instantaneous Water Heaters	With Standing Pilot	Minimum 70.8% Energy Factor	\$30.00/gpm
Domestic Tankless/ Instantaneous Water Heaters	With Electronic Ignition	Minimum 73.8% AFUE	\$40.00/gpm
Boiler	High Efficiency Condensing Boiler with Electronic Ignition	Minimum 90% AFUE and 300 kBtu input	\$4.00/kBtu/hr
Boiler Vent Damper	Boiler Vent Damper	Minimum 1,000 kBtu input	\$1,000/ vent damper
Boiler Steam Trap ²	Steam Trap fitted to Steam Boiler	Minimum 300 kBtu input and steam pressures at 7psig or greater	\$80.00
Gas Fryer	Energy Star	None	\$600.00
Gas Convection Oven	Full Sized Oven (Cooking capacity 6 cubic feet or more)	None	\$600.00
Gas Griddle	High Efficiency Infrared Gas Griddle	None	\$500.00
Clothes Washer	Commercial Gas Washer	1.8 MEF	\$180.00

¹ Minimum value of R-11 applies only where existing walls have no internal insulation cavities.

² To qualify for rebate, steam trap size must be <2", minimum 25 psig trap design pressure. This measure will only be allowed where the customer agrees to have the trap regularly maintained and replaced every seven years.

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