

Substitute Thirty-Fourth Revision Sheet No. 2  
Canceling  
Thirty-Third Revision Sheet No. 2

WN U-3

CASCADE NATURAL GAS CORPORATION

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(T)

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CASCADE NATURAL GAS CORPORATION

**RESIDENTIAL CONSERVATION INCENTIVE PROGRAM**

**AVAILABILITY:**

This program is available throughout Cascade's Washington service territory to qualifying residential customers served on rate schedule 503 upon meeting the requirements contained in the following eligibility section.

**PROGRAM DESCRIPTION:**

This program is designed to increase energy efficiency in residential households within Cascade's service territory by providing rebates for the installation of certain energy efficiency measures in qualifying residential dwellings.

**ELIGIBILITY:**

To qualify for incentives, customers must meet the end-use qualifications identified in the Measures/Incentive Table below. Additionally as applicable to the project, baseline insulation levels in existing structures must not exceed the following baseline specifications in order to qualify for an incentive.

	Existing Insulation Level
Ceiling	R-18 or less
Floor	R-11 or less
Wall	R-4 or less
Duct Insulation	R-2 or less

Customers currently using high-efficiency natural gas HVAC or water heating equipment are not eligible for the high efficiency equipment measures.

**MEASURES/INCENTIVES:**

The following measures are deemed cost-effective and may be recommended under this program.

Energy Star Whole Home Package <sup>1</sup>	Description	Incentive Amount	
Energy Star Qualified Home - Gas with A/C	92% Thermal Efficiency Rating	\$500.00	(I)
Energy Star Qualified Home - Gas without A/C	92% Thermal Efficiency Rating	\$500.00	(I)
Energy Star Plus Qualified Home -- Gas w/ A/C	Federal tax credit eligible	\$750.00	
Energy Star Plus Qualified Home -- Gas w/o A/C	Federal tax credit eligible	\$750.00	
Energy Star Certified Home (BOP 1) including U.30 Glazing	92% Thermal Efficiency Rating Furn/U=.30 glazing	\$550.00	(N)
Premium Gas Furnace Upgrade	95% Thermal Efficiency Rating	\$200.00	(I)
Stand Alone Measures	Description	Incentive Amount	
High Efficiency Gas Furnace and PTCS Duct Sealing <sup>1</sup>	90% Thermal Efficiency Rating	\$400.00	
PTCS Duct Sealing <sup>1</sup>	PTCS Certified Duct Sealing	\$150.00	
Non-PTCS Duct Sealing	Prescriptive with No Test In/Out	\$40.00	(N)
New High Efficiency Gas Furnace <sup>1</sup>	90% Thermal Efficiency Rating	\$150.00	
95% AFUE Gas Furnace (Existing)	95% Thermal Efficiency Rating	\$250.00	(N)
95% Furnace and Non-PTCS Duct Sealing	95% Thermal Efficiency Rating	\$450.00	(N)
Non-PTCS Duct Seal with Duct Insulation	Min R8 Flex/R11 Metal	\$300.00	(N)
High Efficiency Combination Radiant Heat	90% Efficient Condensing Tankless Combo with Water Heater <sup>2</sup>	\$1000.00	(I)
Condensing High Efficiency Tankless Water Heater	.91 EF	\$200.00	
New High Efficiency Gas Hearth	80% Thermal Efficiency Rating	\$300.00	(I)
Upgrade to a High Efficiency Gas Hearth	80% Thermal Efficiency Rating	\$300.00	(I)
70% Fuel Efficient Natural Gas Hearth with Int Ignition	70% Thermal Efficiency Rating	\$200.00	(N)
Wall Insulation <sup>1</sup>	Equal to or greater than R-11 to fill cavity	\$.40/sf.	

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(K) denotes material moved to Sheet No. 300-A

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CASCADE NATURAL GAS CORPORATION

RESIDENTIAL CONSERVATION PROGRAM

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Ceiling Insulation <sup>1</sup>	Equal to or greater than R-38	\$.30/sf.
Floor Insulation <sup>1</sup>	Equal to or greater than R-30 or to fill cavity <sup>3</sup>	\$.45/sf.
High Efficiency Water heater <sup>2</sup>	.64 Energy Factor or greater	\$40.00
Energy Savings Kit <sup>2</sup>	Low Flow Showerhead plus aerators	Free

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- <sup>1</sup> To qualify for rebate, dwelling must use Natural Gas as primary heat source.
- <sup>2</sup> To qualify for rebate, dwelling must utilize Natural Gas for water heating.
- <sup>3</sup> To fill cavity, R-value must be R-19 or greater.

**GENERAL PROVISIONS:**

The administrative and program delivery 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 and equipment must comply with all codes and permit requirements applicable in the state of Washington and must be properly inspected, if required, by appropriate agencies. Customer must submit required documentation of purchase and installation to the Company under the terms and instructions on the current rebate form. The Company reserves the right to verify installation prior to payment of any rebates. Additional information about Cascade's conservation incentive programs is available on the Company's website at <http://www.cngc.com>.

(M) denotes material moved from Sheet No. 300

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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:

Projected Annual Therm Savings of Measure(s) x 100% of the Avoided Cost per Therm

The rebate will not exceed 100% of the Avoided cost of the annual therm savings. (T)

The avoided cost per therm for 30 year measures is \$8.09 which is based on the Company's most recent Integrated Resource Plan, which is the 2012 IRP. (C)

**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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## 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 do not exceed \$.50 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. Mixed purpose facilities that include buildings on both Residential Rate Schedule 503 and qualifying Rate Schedules 504, 505, 511, 570 and 577 as part of the same Cascade Natural Gas Company customer account shall also be eligible for custom conservation incentives as described in this tariff and under the most recent terms and conditions of this program.

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Measure	Description	Efficiency Type For Qualification	Unit Incentive
HVAC Unit Heater	High-Efficiency Non-Condensing with Electronic Ignition	Minimum 86% Thermal Efficiency	\$1.50/kBtu/hr
HVAC Unit Heater	High Efficiency Condensing	Minimum 92% Thermal Efficiency	\$3.00/kBtu/hr
Warm Air Furnace	High Efficiency Condensing Furnace	Minimum 91% Thermal Efficiency	\$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 <sup>1</sup> 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% Thermal Efficiency	\$2.50/kBtu/hr
Domestic Hot Water Tankless Water Heater	Energy Star	.82 EF	\$60.00/gpm
Boiler	High Efficiency Condensing Boiler with Electronic Ignition	Minimum 90% Thermal Efficiency and 300 kBtu input	\$4.00/kBtu/hr
Boiler Vent Damper	Boiler Vent Damper	Minimum 1,000 kBtu input	\$1,000.00/vent damper
Boiler Steam Trap <sup>2</sup>	Steam Trap fitted to Steam Boiler	Minimum 300 kBtu input and steam pressures at 7psig or greater	\$80.00
3 Pan Gas Steamer	Connectionless Energy Star or CEE/FSTC Qualified	>=38% Cooking Efficiency; <=2,083 Btu/hr/pan Idle Rate	\$650.00
6 Pan Gas Steamer	Connectionless Energy Star or CEE/FSTC Qualified	>=38% Cooking Efficiency; <=2,083 Btu/hr/pan Idle Rate	\$1200.00
Gas Fryer	Energy Star	None	\$600.00
Gas Convection Oven	Energy Star	>=44% Cooking Efficiency; <=13,000 BTU/hr Idle Rate	\$400.00

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