

~~Seventh-Eighth~~ Revision Sheet No. 300
Canceling

~~Sixth-Seventh~~ Revision Sheet No. 300

WN U-3

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.

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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/Attic	R-18 or less
Floor	R-11 or less
Wall	R-4 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.

Whole Home Packages ¹	Description	Incentive Amount
Energy Star Certified Home	National Program Requirements Version 3.1 (Rev. 08) ¹	\$600 2000.00
Built Green Washington Certified Home	Certified from one to five stars ¹	\$600 2000.00
Stand Alone Measures	Description	Incentive Amount
High Efficiency Gas Furnace	95% AFUE ¹	\$250 400.00
High Efficiency Combination Radiant Heat	90% AFUE Combination domestic hot water and hydronic space heating system using pre-approved tankless water heater ^{1&2}	\$825 2500.00
Condensing High Efficiency Tankless Water Heater	.91 EF	\$150 250.00
High Efficiency Gas Hearth (Fireplace) with Intermittent Ignition	80% AFUE	\$250 300.00
High Efficiency Gas Hearth (Fireplace) with Intermittent Ignition	70% FE	\$150 250.00
Wall Insulation ¹	Equal to or greater than R-11 or to fill cavity	\$0.35 75/sf.

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~~Fourth-Fifth~~ Revision Sheet No. 300-A
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~~Third-Fourth~~ Revision Sheet No. 300-A

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CASCADE NATURAL GAS CORPORATION

RESIDENTIAL CONSERVATION PROGRAM
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Ceiling Insulation ¹	Equal to or greater than R-38	\$0.7530 /sf.
Floor Insulation ¹	Equal to or greater than R-30 or to fill cavity ³	\$0.3975 /sf.
High Efficiency Water Heater ²	.67 Energy Factor or greater	\$45.00
Energy Savings Kits ²	Low Flow Showerhead(s) plus aerators	Free
High Efficiency Exterior Door	Equal to or less than U 0.21	\$50 100.00
Whole Home Air Sealing ¹	Min. 400 CFM50 reduction using pre and post blower door testing	\$100.00
Ceiling/Attic Insulation Tier II¹	Equal to or greater than R-49	\$1.00 /sf.
Programmable Thermostat¹	Natural gas must be primary heat source	\$10
Condensing Boiler¹	95% AFUE	\$500
<u>Bundles⁴</u>	<u>Bundle A: Any two weatherization measures covering a minimum of 1,000 sf.</u>	<u>Bundle A: \$250</u>
	<u>Bundle B: Air sealing and any two insulation measures covering a minimum of 1,000 sf.</u>	<u>Bundle B: \$500</u>

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¹ To qualify for rebate, dwelling must use ~~Natural-natural Gas-gas~~ as primary heat source.

² To qualify for rebate, dwelling must utilize ~~Natural-natural Gas-gas~~ for water heating.

³ To fill cavity, R-value must be R-19 or greater.

⁴ Bundles subject to change in consultation with the Cascade Conservation Advisory Group (CAG).

GENERAL PROVISIONS:

The administrative and program delivery costs associated with this program will be accounted for and recovered through an annual deferral amortization. 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>.

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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 1.33 times the lifetime discounted therm savings. 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.

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	\$6.95 10.00/kBtu/hr
Insulation	Attic Insulation (retrofit only)	Tier One: Minimum R-30 Tier Two: Minimum R-45	Tier One: \$0.50 1.10/sq. ft. Tier Two: \$0.65 1.25/sq. ft.
Insulation	Roof Insulation (retrofit only)	Tier One: Minimum R-21 Tier Two: Minimum R-30	Tier One: \$0.60 1.35/ sq. ft. Tier Two: \$0.80 1.60/ sq. ft.
Insulation	Wall Insulation (retrofit only)	Tier One: Minimum R-11 ¹ Tier Two: Minimum R-19	Tier One: \$0.50 1.10/ sq. ft. Tier Two: \$0.56 1.25/ 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 ²	Steam Trap fitted to Steam Boiler (retrofit only)	Min 300 kBtu input and steam pressures at 7psig or greater	\$125.00
3 Pan Gas Steamer	Connectionless Energy Star or CEE/FSTC Qualified	>=38% Cooking Efficiency; <=2,083 Btu/hr/pan Idle Rate	\$850.00
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	>=42% Cooking Efficiency; <=13,000 BTU/hr Idle Rate	\$450 500.00

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CASCADE NATURAL GAS CORPORATION

COMMERCIAL/INDUSTRIAL CONSERVATION PROGRAM

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Measure	Description	Efficiency Type For Qualification	Unit Incentive
Double Rack Oven	FSTC Qualified	>=50% Cooking Efficiency; <=3,500 Btu/hr/ Idle Rate D Rack	\$2,000.00
Gas Griddle	Energy Star	>=38% Cooking Efficiency; <=2650 Btu/hr-sq ft Idle Rate	\$350 \$500.00
Door Type Dishwasher Low Temp Gas	Energy Star	<=.6 kw Idle Rate<=1.18 gallon/rack	\$650 \$800.00
Multi-Tank Conveyor Low Temp Dishwasher Gas Main w/ Electric Booster	Energy Star	<=2.0 kw Idle Rate <=.50 gallon/rack	\$4 \$2,000.00
Clothes Washer	Commercial Gas Washer	1.8 MEF	\$180.00
Motion Control Faucet	Motion Control Faucet	Flow Rate 1.8 gpm Maximum	\$105.00
Recirculation Controls	Continuous Operation DHW Pump (retrofit only)	Add Time lock Control to DHW circulation pump	\$100
Ozone Injection Laundry ³	Venturi Injection or Bubble Diffusion – Minimum 125 lb Total Washer/Extractor Capacity	Pre-Approved by CNG	\$2,500
Energy Savings Kit A	Kitchen PRSV & Bath Aerators	<= 1.0 gpm /0.75 gpm Flow Rate	Free (Value of \$55)
Energy Savings Kit B	Low Flow Showerhead Kit	<= 1.85 gpm Flow Rate	Free (Value of \$25)
Gas Conveyor Oven	Natural Gas Conveyor Oven	>42% tested baking efficiency	\$600
Demand Control Ventilation	For Packaged HVAC Units equipped with Gas Fired Furnace Sections and Direct Expansion Cooling Sections	≥ 5 ton (60,000 btu/hr) and ≤ 20 ton (240,000 btu/hr) Meets Northwest Joint Utility Advanced Rooftop Control (ARC) Guidelines for DCV Control	\$12/nominal ton capacity
<u>Boiler Pipe Insulation</u>	<u>Retrofit Only</u>	<u>Tier 1: 1.5" inch thick pipe</u> <u>Tier 2: 2.5" inch thick pipe</u>	<u>Tier 1: \$4.50 per linear foot</u> <u>Tier 2: \$9.00 per linear foot</u>
<u>Bundles⁴</u>	<u>Applications that contain multiple rebate eligible measures may qualify for an additional Bundle rebate</u>	<u>Bundle A: 2 insulation measures, minimum 1,000 sqft</u> <u>Bundle B: 2 Kitchen Equipment measures</u> <u>Bundle C: 3 Kitchen Equipment measures</u>	<u>Bundle A: \$500</u> <u>Bundle B: \$150</u> <u>Bundle C: \$300</u>

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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.
³ Qualifying customers with Commercial laundries that utilize gas heated hot water.
⁴ Kitchen Equipment defined as dishwashers, steamers, ovens fryers and griddles. Bundles subject to change in consultation with the Conservation Advisory Group.

SPECIFICATIONS:

- Requirements: (as applicable to the project)
- Participating customers must be a new or existing commercial or industrial natural gas customer of Cascade Natural Gas Corporation
 - All high efficiency HVAC, water heating, and or cooking equipment must be replacing standard efficiency natural gas equipment or installing new equipment. Buildings currently using high efficiency equipment are not eligible for this program.
 - Insulation measures must be installed in an existing building heated by natural gas without insulation in the component being treated.
 - Eligible measures must be installed during the effective dates of this program to be eligible for a rebate
 - Customers requesting site-specific energy efficiency measures must submit estimated costs and natural gas savings associated with the project. Natural gas savings are to be calculated using standard engineering practices. The Company will review the natural gas savings calculations, and reserves the right to modify energy savings estimates.

GENERAL PROVISIONS:

The administrative and program delivery costs associated with this program will be accounted for and recovered through an annual deferral amortization. All installations 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. The Company may establish specifications regarding any measures and modifications to be affected and may conduct inspections to ensure that such specifications are met. 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

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