

CASCADE NATURAL GAS CORPORATION

Tenth Revision Sheet No. 300

WN U-3

**Canceling
Ninth Revision of Sheet No. 300**

**SCHEDULE 300
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 and 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. (T)

	Existing Insulation Level
Ceiling/Attic	R-19 or less
Floor	R-11 or less
Wall	R-4 or less

(C)

Rebates are intended to incentivize high efficiency choices and where existing equipment meets the high efficiency standard, replacement with a high efficiency upgrade is disallowed. (T)
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MEASURES AND 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 3.2 (Rev. 09) ¹	\$2,000
BUILT GREEN® Washington Certified Home	Certified from one to five stars ¹	\$2,000
Stand Alone Measures	Description	Incentive Amount
High Efficiency Gas Furnace	95% AFUE ¹	\$400
High Efficiency Combination Radiant Heat	95% AFUE Combination Domestic Hot Water and Hydronic Space Heating System using pre-approved Combination Boiler ^{1,2,5}	\$1,250
Condensing Tankless Water Heater	.87 UEF ²	\$250
Condensing High Efficiency Tankless Water Heater	.93 UEF ²	\$350
High Efficiency Gas Hearth (Fireplace) with Intermittent Ignition	70% EnerGuide (FE) Efficiency Rating ⁶	\$300
Wall Insulation ¹	Equal to or greater than R-11 or to fill cavity	\$0.75/sqft

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Canceling
Sixth Revision Sheet No. 300-A

SCHEDULE 300

RESIDENTIAL CONSERVATION INCENTIVE PROGRAM

MEASURES AND INCENTIVES (continued)

Ceiling/Attic Insulation Tier I ¹	Equal to or greater than R-38	\$0.75/sqft	(T)
Ceiling/Attic Insulation Tier II ¹	Equal to or greater than R-49	\$1.00/sqft	(T)
Floor Insulation ¹	Equal to or greater than R-30 or to fill cavity ³	\$0.75/sqft	(T)
Duct Insulation	R-8 ⁷	\$0.50/linear ft	(D)(N)
Duct Sealing	Min 4 CFM25 per 100 square feet of conditioned space ⁷	\$150/household	(N)
Energy Savings Kits ²	Low Flow Showerhead(s) plus aerators	Free	
High Efficiency Exterior Door	Equal to or less than U 0.21	\$100	
Whole Home Air Sealing ¹	Min. 400 CFM50 reduction ⁸	\$150	(T)(I)
Windows- ENERGY STAR [®] , Northern Zone	Less than or equal to 0.27 U Factor ⁹	\$5.00/sqft	(N)
Programmable Thermostat ¹	Natural gas must be a primary heating source	\$25	(I)
Condensing Boiler ¹	95% AFUE	\$750	(I)
Bundles ⁴	Bundle A: Any two weatherization measures covering a minimum of 1,000 sqft. Bundle B: Air sealing and any two insulation measures covering a minimum of 1,000 sqft.	Bundle A: \$250 Bundle B: \$500	

¹ To qualify for rebate, dwelling must use Natural Gas as primary heat source. Homes utilizing either VRF heat pumps or multizone ductless heat pumps with gas furnace back up are ineligible. (C)

² To qualify for rebate, dwelling must utilize Natural Gas for water heating. (C)

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

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

⁵ Use of tankless water heater is acceptable for combined space and water heating with a Uniform Energy Factor of 0.95 or higher. Combined use of indirect, non-fired tank is acceptable for use with approved 95% AFUE Boiler where required. (N)

⁶ Specifically per CSA P.4-15 Testing Standard referenced to downloadable Natural Resources Canada EnerGuide database of December 3, 2018 and later. Eligibility for older models not referenced in the December 2018 or later downloadable database, based per CSA P.4 Testing Standard referenced to downloadable Natural Resources Canada EnerGuide database of February 14, 2017.

⁷ Requires that a minimum of 30% of applicable ductwork is outside of conditioned space.

⁸ Leakage reduction required to be verified and documented through pre and post blower door testing.

⁹ Pre-existing window type must be single pane window. (N)

PROGRAM COST RECOVERY

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

PROGRAM SPECIFICATIONS

- 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.
- The customer must submit documentation demonstrating the purchase and installation of the measure. The paperwork must comply with the terms and instructions on the Company's 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

Ninth Revision Sheet No. 302

WN U-3

**Canceling
Eighth Revision of Sheet No. 302**

**SCHEDULE 302
COMMERCIAL/INDUSTRIAL CONSERVATION PROGRAM**

AVAILABILITY

This program is available to commercial and industrial customers served on rate schedules 504, 505, 511, and 570.

PROGRAM DESCRIPTION

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

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MEASURES AND INCENTIVES

The following energy efficiency measure offerings are deemed cost-effective as a portfolio and may be recommended under this program. Energy efficiency measures not listed may still be eligible for custom incentives provided they remain cost-effective under the Total Resource Cost test or a 1.25 benefit cost ratio under the Utility Cost Test, including levelized accounting for program administrative costs.

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Measure	Description	Efficiency Type For Qualification	Unit Incentive
Windows ⁵	U factor of 0.27 or less (retrofit only)	0.27 U or less	\$5.00/sqft
HVAC Unit Heater	High Efficiency Condensing	Minimum 91% Thermal Efficiency	\$5/kBtu/hr
Warm Air Furnace	High Efficiency Condensing Furnace	Minimum 91% Thermal Efficiency	\$5/kBtu/hr
Radiant Heating	Direct Fired Radiant Heating	None	\$15/kBtu/hr
Insulation ⁶	Attic (retrofit only)	Tier One: Minimum R-30 Tier Two: Minimum R-45	Tier One: \$2.00/sqft Tier Two: \$2.50/sqft
Insulation ⁶	Roof (retrofit only)	Tier One: Minimum R-21 Tier Two: Minimum R-30	Tier One: \$2.00/ sqft Tier Two: \$2.50/ sqft
Insulation ⁶	Wall (retrofit only)	Tier One: Minimum R-11 ¹ Tier Two: Minimum R-19	Tier One: \$1.25/sqft Tier Two: \$1.50/sqft
Domestic Hot Water Tanks	Condensing Tank	Minimum 91% Thermal Efficiency	\$2.50/kBtu/hr
Tankless Water Heater	Tankless Hot Water Heater	0.87 UEF 0.93 UEF	\$120/gpm \$150/gpm
Boiler	High Efficiency Condensing Boiler with Electronic Ignition	Minimum 90% Thermal Efficiency and 300 kBtu input	\$6/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 (retrofit only)	Min 300 kBtu input and steam pressures at 7psig or greater	\$125
3 Pan Gas Steamer	Connectionless Energy Star or CEE/FSTC Qualified	>=38% Cooking Efficiency; <=2,083 Btu/hr/pan Idle Rate	\$850

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Fifth Revision of Sheet No. 302-A

SCHEDULE 302
COMMERCIAL/INDUSTRIAL CONSERVATION PROGRAM

MEASURES AND INCENTIVES (continued)

Measure	Description	Efficiency Type For Qualification	Unit Incentive
6 Pan Gas Steamer	Connectionless ENERGY STAR® or CEE/FSTC Qualified	≥ 38% Cooking Efficiency; ≤ 2,083 Btu/hr/pan Idle Rate	\$1,200
Gas Fryer	ENERGY STAR®	None	\$750
Gas Convection Oven	ENERGY STAR®	≥ 44% Cooking Efficiency; ≤ 13,000 Btu/hr Idle Rate	\$800
Double Rack Oven	FSTC Qualified	≥ 50% Cooking Efficiency; ≤ 35,000 Btu/hr/ Idle Rate D Rack	\$2,500
Gas Griddle	ENERGY STAR®	≥ 38% Cooking Efficiency; ≤ 2650 Btu/hr- sqft Idle Rate	\$500
Door Type Dishwasher Low Temp Gas	ENERGY STAR®	≤ 6 kw Idle Rate ≤ 1.18 gallon/rack	\$800
Multi-Tank Conveyor Low Temp Dishwasher Gas Main w/ Electric Booster	ENERGY STAR®	≤ 2.0 kw Idle Rate ≤ .50 gallon/rack	\$2,500
Floor Insulation	Retrofit Only	Pre R < 11, Post R > 30 ⁷	\$0.75/sqft
Motion Control Faucet	Motion Control Faucet	Flow Rate 1.8 gpm Maximum	\$105
Recirculation Controls	Continuous Operation DHW Pump	Add Time lock Control to DHW circulation pump	\$200
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 Pre-Rinse Spray Valve	≤ 1.0 gpm	Free
Energy Savings Kit B	Low Flow Showerhead Kit & Bath Aerators	≤ 1.85 / 0.75 gpm Flow Rate	Free
Gas Conveyor Oven	Natural Gas Conveyor Oven	> 42% tested baking efficiency	\$450
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	\$20/nominal ton capacity
Piping Insulation ⁶	Insulation of piping conveying hot fluids generated from gas fired equipment (retrofit only)	Tier 1, 1.5": >140F and <200F Tier 2, 2.5": ≥ 200F	Tier 1: \$15 / linear foot Tier 2: \$25/ linear foot
Bundles ⁴	Applications that contain multiple rebate eligible measures may qualify for an additional Bundle rebate.	Bundle A: 2 insulation measures, minimum 1,000 sqft Bundle B: 2 kitchen equipment measures Bundle C: 3 kitchen equipment measures	Bundle A: \$500 Bundle B: \$300 Bundle C: \$500

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 is defined as dishwashers, steamers, ovens, fryers, and griddles. Bundles are subject to change in consultation with the Conservation Advisory Group.
⁵ Pre-existing window must be a single pane.
⁶ The Company will pay custom incentive levels at the lesser of the normalized tariff amount or actual installed cost and will work with its CAG should it deem necessary to update this criteria.
⁷ Not applicable to slab on grade foundations.

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**SCHEDULE 302
COMMERCIAL/INDUSTRIAL CONSERVATION PROGRAM**

PROGRAM SPECIFICATIONS

- 1. All high efficiency HVAC, water heating, and or cooking equipment must either be a new installation or must be replacing standard efficiency natural gas equipment. Buildings currently using high efficiency equipment are not eligible for rebates to replace existing efficient equipment. (T)
- 2. Insulation measures must be installed in an existing building heated by natural gas. Attic, roof or wall insulation must not be present in the corresponding portion being treated. |
- 3. Eligible measures must be installed during the effective dates of this tariff to receive these rebates. (T)
- 4. 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.
- 5. Mixed-purpose facilities that include buildings on both Residential Rate Schedule 503 and qualifying Rate Schedules 504, 505, 511, or 570, as part of the same Cascade customer account, shall also be eligible for prescriptive and custom conservation incentives as described in this schedule. (T)
- 6. 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.
- 7. The customer must submit to the Company the required documentation demonstrating the purchase and installation of the measure. Submissions must comply with the terms and instructions on the Company's current rebate form.
- 8. The Company reserves the right to verify installation prior to payment of rebates. (T)
- 9. The Company reserves the right to alter, amend, or cancel this program at any time.

PROGRAM COST RECOVERY

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

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