

NORTHWEST NATURAL GAS COMPANY

WN U-6

Fifth Revision of Sheet G.1
Cancels Fourth Revision of Sheet G.1

SCHEDULE G ENERGY EFFICIENCY SERVICES AND PROGRAMS – RESIDENTIAL AND COMMERCIAL

APPLICABLE:

This program is intended to provide an economical and effective means for conserving Natural Gas through reduced heat loss and improved efficiencies in Residential dwellings and Commercial buildings.

AVAILABLE:

To all Residential Customers served on Rate Schedules 1, 2 and 27; and all Commercial Firm Sales and Interruptible Sales Customers served on Rate Schedules 3, 41 and 42 in all territory served by the Company under the Tariff of which this program is a part.

DESCRIPTION:

The Energy Trust of Oregon (Energy Trust) will deliver and administer a cost-effective energy efficiency program to NW Natural's Residential and Commercial Firm Sales and Interruptible Sales Customers. Energy Trust administered programs will offer applicable Customers incentive dollars for installing specific, cost-effective energy efficient measures, including rebates for energy efficient retrofit or replacement appliances. Program offerings may vary from time-to-time. Current offerings are described on the following Company webpage:

https://www.nwnatural.com/content_yourhome.asp?id=228

OVERSIGHT

Oversight of these programs will be provided by the Energy Efficiency Advisory Group (EEAG), which is a group comprised of interested parties to the Company's 2008 general rate case. EEAG oversight is required per the stipulated agreement attached to Commission Order No. 04 to the Company's rate case, docketed as UG-080546. The Company will consult with the EEAG prior to making any significant program changes such as changing an incentive amount or adding program measures.

REPORTING

Energy Trust will provide the EEAG and WUTC with Quarterly and an Annual Reports demonstrating total program costs, therms saved and levelized costs of measures offered. Reporting will be consistent with the Company's Energy Efficiency Plan, revised on November 18, 2011.

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COST-EFFECTIVE STANDARD

The portfolio of programs offered through the Energy Trust will be deemed cost-effective if the program meets the following Benefit Cost Ratio (BCR) tests: 1) Total Resource Cost (TRC) test; and 2) the Utility Cost (UC) test. The program is cost-effective when the end value for each of the following test is greater than one (1):

- 1) Total Resource Cost (TRC) looks at the total benefits attributable to the program divided by the total program costs. A TRC value equal to or greater than one means the benefits are equal to or exceed the costs, and the program is cost-effective.

TRC is expressed formulaically as follows:

$$TRC = \text{Present Value of Benefits} / \text{Present Value of Costs}$$

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First Revision of Sheet G.4

Cancels Original Sheet G.4

SCHEDULE G ENERGY EFFICIENCY SERVICES AND PROGRAMS – RESIDENTIAL AND COMMERCIAL

RESIDENTIAL PROGRAM INCENTIVES

The following are offerings for Residential customers:

DESCRIPTION	INCENTIVE	
Weatherization		
Air Sealing	50% of cost, up to \$275	
Air Leakage Test	\$35.00 per site tested	
Attic/Ceiling Insulation	\$0.25 per square foot	
Duct Insulation	50% of cost, up to \$100	
Floor Insulation	\$0.30 per square foot	
Knee-Wall Insulation	\$0.30 per square foot	
Boiler Pipe Insulation	\$0.50 per linear foot	
Wall Insulation	\$0.30 per square foot	
Duct Sealing	50% of cost up to \$325	
Duct Leakage Test	\$35.00 per duct system tested	
Windows (U.30 or better)	\$2.25 to \$3.50 per square foot	(C)
Heating		
Gas Furnace	\$100.00	
Direct Vent Gas Unit Heater	\$100.00	
Direct Vent Gas Fireplace	\$100.00 to \$150.00	
Intermittent Pilot Ignition	\$100.00	(N)
Gas Boiler	\$200.00	
Water Heating		
Gas Tankless Water Heater	\$200.00	
Gas Water Heater (0.62 or better)	\$35.00 to \$100.00	(C)
Home Energy Review Measures		
Faucet Aerator	Free to customer	
Home Energy Review	Free to customer	
Showerhead	Free to customer	
Shower wand	Free to customer	
Water Heater Set Back	Free to customer	
Distributor or Retail Buy Down		
Water Heater	\$100.00	(N)
Showerhead	\$8.50	(N)

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Second Revision of Sheet G.5
Cancels First Revision Sheet G.5

SCHEDULE G ENERGY EFFICIENCY SERVICES AND PROGRAMS – RESIDENTIAL AND COMMERCIAL

RESIDENTIAL NEW CONSTRUCTION

Tankless Hot Water Heating	\$ 200.00 per unit
Energy Star Builder Option Package*	\$ 600.00 per home

* Building requirements are as stated on this site: http://www.energystar.gov/index.cfm?c=bop.pt_bop_washington

COMMERCIAL

General		(N)
Custom	\$1 per therm	(N)
Heating		(N)
Steam Traps, Small Commercial, <12 hrs/day, small-med pressure	\$ 100.00 per trap*	
Gas-fired Condensing Boiler > 2500 kbtuh 0.9 EC	\$ 4.00 per kBtu hr in	
Gas-fired Condensing Boiler < 300 kbtuh 0.9 AFUE	\$ 4.00 per kBtu hr in	
Gas-fired Condensing Boiler >= 300 kbtuh, <= 2500 kbtuh 0.9 ET	\$ 4.00 per kBtu hr in	
Boiler Vent Damper	\$ 1,000.00 per unit	
High Efficiency Unit Heater - Non-Condensing with Electronic Ign	\$ 1.50 per kBtu hr in	
High Efficiency Condensing Furnace <225,000 kBtuh	\$ 3.00 per kBtu hr in	
Direct-fired Radiant Heating	\$ 6.50 per kBtu hr in	
Pipe Insulation	\$2.00 to \$6.00 per linear foot	

* Pre-verification of steam traps required for dry cleaners

Water Heating

Domestic Tankless/Instantaneous Water Heater with Electronic Ignit	\$ 2.00 per kBtu hr in	
Domestic Tankless/Instantaneous Water Heater with Standing Pilot	\$ 1.50 per kBtu hr in	(C)
Condensing Tank	\$ 2.50 per kBtu hr in	
Commercial Clothes Washer, Gas Water Heat, Partial Gas	\$ 200.00 per unit	
Showerhead Gas	\$ 6.00 to \$10 per unit	
Commercial Bathroom Faucet Aerators (0.5 gal per minimum; 15 unit minimum)	\$3.00 each	
Commercial Kitchen Faucet Aerators (1.5 gal per minimum; 15 unit minimum)	\$5.00 each	
Ozone Laundry System	\$40 per pound of washing capacity up to a max of 35% of cost of system	

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Food Service

Gas Full-Size Convection Oven	\$ 300.00 per unit
Gas Fryer	\$ 1,000.00 per unit
Gas Griddle	\$ 150.00 per unit
Gas Steam Cooker	\$ 1,300.00 per unit
Dishwasher - Single Tank Conveyor - Low temp - Gas hot water	\$ 500.00 per unit
Dishwasher - Single Tank Door/Upright - Low Temp - Gas water heat	\$ 400.00 per unit
Dishwasher - Single Tank Conveyor - High temp - Gas hot water	\$ 500.00 per unit
Dishwasher - Single Tank Door/Upright - High Temp - Gas water heat	\$ 400.00 per unit
Dishwasher - Undercounter - high temp - Gas water heat	\$ 200.00 per unit
Turbo Pot – limit one per applicant	\$40 per pot*

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* Customers installing one other food service measure may receive one free turbo pot while promotional quantities last.

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SPECIAL PROVISIONS

1. One time bonuses or coupons may be periodically offered to supplement standard incentives.
2. Limited time incentive offerings for cost effective measures may be offered from time to time.

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GENERAL TERMS:

This Schedule is governed by the terms of this Schedule, the General Rules and Regulations contained in this Tariff and by all rules and regulations prescribed by regulatory authorities, as amended from time to time.

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