

NORTHWEST NATURAL GAS COMPANY

WN U-6

Second Revision of Sheet G.1
Cancels First 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.

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:

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

(continue to Sheet G-2)

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NORTHWEST NATURAL GAS COMPANY

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First Revision of Sheet G.3

Cancels Original Sheet G.3

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LEVELIZED COST METRIC

The portfolio of measures promoted through the program will also meet the following Levelized Cost metric, which is determined as follows:

The levelized cost is the present value of the total cost of a measure over its economic life, converted to equal annual payments. The levelized cost calculation starts with the incremental capital cost of a given measure or package of measures. The total cost is amortized over an estimated measure lifetime using the discount rate established in the Company's most current IRP. The annual net measure cost is then divided by the annual net energy savings (therms) from the measure application (again relative to a standard technology) to produce the levelized cost estimate in dollars per therm saved, as illustrated in the following formula.

$$\text{Levelized Cost} = \frac{\text{Net Annual Cost (\$)}}{\text{Net Annual Savings}}$$

The levelized cost of an energy efficiency measure is cost-effective if it is less than the average levelized costs of other supply-side options. A cost-effective threshold is established in the Company's most current Integrated Resource Plan (IRP) and further refined through the BCR test.

CUSTOMER NOTIFICATION

This information may be provided through the use of bill inserts, displays, booklets, handouts, advertisements, and industry and public agency literature.

FUNDING

The costs incurred for the administration and delivery of the services and programs offered under this Schedule will be deferred as allowed by Washington Utility and Transportation Commission (WUTC) Orders to UG-011230 and UG-011231. Each year, the Company will seek recovery of ongoing program costs from Residential and Commercial customers through Schedule 215, coincident with the Company's Annual Purchased Gas Adjustment filing made in accordance with Schedule P. Deferred balances will accrue interest.

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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Issued by: NORTHWEST NATURAL GAS COMPANY

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