
Energy Efficiency Program Proposal

ThermWise[®] Builder Rebates Program

Program Overview

Description

Questar Gas Company (Questar Gas) is proposing to continue the ThermWise Builder Rebates program. The program will be delivered to the market and administered by Questar Gas. The program will be available to residential builders in the Questar Gas Utah service territory and include rebates for installing natural gas energy-efficiency measures in newly constructed single and multifamily residences receiving service on the GS rate schedule. Rebates under the program will be paid directly to the home builder or owner-builder (builder) or as indicated on the application form for energy efficient construction. Rebates will be paid for installing specific energy-efficient natural gas measures, including high efficiency natural gas space heating and water heating appliances or solar assisted gas water heating systems. A credit will also be available to builders who install qualifying equipment as defined in Section 2.11 of the Questar Gas Company Utah Tariff (QGC Energy Efficiency Exhibit 1.9).

The program is designed to leverage marketing and delivery directly to Utah home builders through a combination of Questar Gas staff and program implementation staff. Development, implementation, training, support, and administration will be provided by Questar Gas. All Questar Gas rebates and or credits will be available directly to builders upon completion of program requirements.

Program Design

Program Measures

Qualifying Customers

Separately metered single family or multifamily newly constructed residences, in Questar Gas' Utah service territory and billed on the GS rate schedule are eligible to participate in the ThermWise Builder Rebates program.

Qualified Energy Efficiency Measures

For a complete list of minimum efficiency requirements and rebate amounts, see section 2.11 of the Questar Gas Company Utah Tariff (QGC Energy Efficiency Exhibit 1.9).

HERS Index

Builders may receive a rebate for a home which meets or exceeds specific Home Energy Rating System (HERS) Index scores. The home must be certified by a Rater in order for the builder to be eligible for a rebate. The HERS Index is the industry standard by which a home's energy efficiency is measured. HERS was developed by RESNET, an industry organizing group, and is the nationally recognized system for inspecting and calculating a home's energy performance. Builders may receive varying rebates based on a home's HERS Index score. To be eligible, homes must include qualified gas space heating and gas water heating. Other eligibility requirements are as follows:

- New homes must receive a HERS Index score of: 62 or lower, 55 or lower, or 48 or lower.

ENERGY STAR® Bonus

Builders may receive rebates for building a dwelling unit that qualifies under the most recently adopted version of ENERGY STAR®. Field verification and ENERGY STAR® compliance certificate by a HERS rater will be required before ENERGY STAR® rebate will be paid. To be eligible, homes must include qualified gas space heating and gas water heating.

Gas Furnaces

Builders may receive a rebate for installing a high-efficiency natural gas furnace. Eligibility requirements are as follows:

- The builder must purchase and install a model with an AFUE Rating of $\geq 92\% < 95\%$.
- The builder must purchase and install a model with an AFUE Rating of $\geq 95\% < 97.5\%$.
- The builder must purchase and install a model with an AFUE Rating of $\geq 95\% < 97.5\%$ with Electronically Commutated Motor (ECM).
- The builder must purchase and install a model with an AFUE Rating of $\geq 97.5\%$ with ECM.

Gas Storage Water Heaters

Builders may receive a rebate for installing a high-efficiency natural gas storage water heater. Eligibility requirements are as follows:

- The builder must purchase and install a model with an EF $\geq .67$. Qualifying water heaters will have a minimum of 40 gallons in capacity.

Tankless Gas Water Heater

Builders may receive a rebate for installing a high-efficiency tankless natural gas water heater. Eligibility requirements are as follows:

- The builder must purchase and install a model with an EF $\geq .82 < .90$.
- The builder must purchase and install a model with an EF $>.90$.

Condensing Storage Gas Water Heater

Builders may receive a rebate for installing a high-efficiency condensing natural gas storage water heater. To be eligible for a rebate, the builder must purchase and install a model with an EF of $\geq .90\%$.

Hybrid Gas Water Heater

Builders may receive a rebate for installing a high efficiency hybrid natural gas storage water heater. To be eligible for a rebate, the builder must purchase and install a qualified model with TE of $\geq 90\%$.

Gas Boilers

Builders may receive a rebate for installing a high-efficiency natural gas boiler. Eligibility requirements are as follows:

- The builder must purchase and install a model with an AFUE Rating of $\geq 85\% < 95\%$.
- The builder must purchase and install a model with an AFUE Rating of ≥ 95 .

Solar Assisted Gas Water Heating (domestic)

Builders may receive a rebate for installing solar assisted domestic natural gas water heating system, certified OG-300 by the Solar Rating and Certification Corporation (SRCC).

Solar Assisted Gas Water Heating (pool)

Builders may receive a rebate for installing solar assisted pool natural gas water heating system, certified OG-100 by the Solar Rating and Certification Corporation (SRCC).

2x6 Walls

Builders may receive rebates for installing an R-23 cavity insulation or equivalent exterior walls with continuous exterior insulation in single family homes. To be eligible, builder must certify the installation of qualifying products.

Windows - U-value ≤ 0.22

Builders may receive rebates for installing a window with a U-value ≤ 0.22 . To be eligible, builder must purchase and install qualified windows.

Smart Thermostat

Customers may receive a rebate for installing a smart thermostat. Eligibility requirements are defined as follows:

- Intuitive User Interface (UI); may include touchscreen or buttons
- Wi-Fi enabled; must be able to communicate wirelessly
- Programmable for schedules, set-backs
- Online dashboard and/or mobile app connected to the user account
- Occupancy sensor (to determine if the user is out of the space)

A list of manufacturers and rebate-qualifying models is available at www.ThermWise.com.

Program Rebates, Projected Participation and Savings

A completed rebate application must be submitted within six months of the initiation of gas service for the subject dwelling units to be eligible to receive a rebate. Builders may elect to receive either a rebate check or a rebate credit for installing furnaces or 2x6 walls which meet the minimum efficiency qualifications listed. A rebate credit will be applied against the Company assessed meter charge and service line contributions. In the case where the rebate credit exceeds the meter and service line contribution charges, a rebate check will be issued to the Builder for the overage. A rebate check will be an option for all other measures and for those builders not participating in the credit option. Rebates will be sent to the Builder contact listed on the builder participation agreement.

Table 1. Builder Projected Participation and Savings

Single Family (1-4 units)		
Measure	Projected Participation	Total Projected Savings (annual Dth)
HERS Index 62 or lower	1,190	6,188
HERS Index 55 or lower	33	343
HERS Index 48 or lower	16	250
Energy Star 3.0 Bonus	330	917
Natural Gas Furnace 92% AFUE	450	4,266
Natural Gas Furnace 95% AFUE	8,500	95,195
Natural Gas Furnace with ECM 95% AFUE	500	5,600
Natural Gas Furnace with ECM 97.5% AFUE	80	992
Storage Water Heater .67 EF	715	2,045
Tankless Water Heater .82 EF	80	537
Tankless Water Heater .90 EF	110	942
Condensing Storage Water Heater .90 EF	10	87
Hybrid Water Heater .90 EF	5	43
Natural Gas Boiler 85% AFUE	9	109
Natural Gas Boiler 95% AFUE	33	532
Solar Assisted Water Heater SRCC OG-300	5	88
Solar Assisted Pool Heater SRCC OG-100	5	345
2X6 R-23Walls	650	3,510
Windows – U-Value \leq 0.22	330	10
Smart Thermostat	220	946
TOTAL Single Family	13,271	122,945

Multifamily (5 or more units)		
Measure	Projected Participation	Total Projected Savings (annual Dth)
HERS Index 62 or lower	0	0
HERS Index 55 or lower	0	0
HERS Index 48 or lower	0	0
Energy Star 3.0 Bonus	0	0
Natural Gas Furnace 92% AFUE	1,200	6,720
Natural Gas Furnace 95% AFUE	1,500	9,750
Natural Gas Furnace with ECM 95% AFUE	33	215
Natural Gas Furnace with ECM 97.5% AFUE	5	36
Storage Water Heater .67 EF	715	994
Tankless Water Heater .82 EF	5	20
Tankless Water Heater .90 EF	0	0
Condensing Storage Water Heater .90 EF	0	0
Hybrid Water Heater .90 EF	5	27
Natural Gas Boiler 85% AFUE	5	60
Natural Gas Boiler 95% AFUE	5	81
Solar Assisted Water Heater SRCC OG-300	5	88
Solar Assisted Pool Heater SRCC OG-100	5	345
Windows – U-Value \leq 0.22	5	0
Smart Thermostat	5	9
TOTAL Multifamily	3,493	18,345
TOTAL Builder Program	16,764	141,290

Rebate Limitations

ThermWise Builder Rebate program limitations are defined in Section 2.11 of the Questar Gas Company Utah Tariff (QGC Energy Efficiency Exhibit 1.9).

Implementation

This program is currently in the marketplace. Upon Commission approval, implementation activities will begin for the new program year in order to launch January 1, 2017

Administration

The program administration represents the on-going delivery of the program. All internal systems, processes and procedures have been created and are in place.