
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.

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 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.

List of Qualified Energy Efficiency Measures

Single (1-4 units) & Multifamily (5 or more units)	
Measure	Specification
Whole home options (must include and qualifying stand-alone furnace & water heater)	
ThermWise® Builder Option Package 1 (Builder Cert.)	Builder certifies unit meets IECC 2009 energy code, field verification and includes qualifying space heating appliance and water heater. Supporting documentation by builder must be provided. Includes Class I insulation and TBC.
ThermWise® Builder Option Package 2 (Rater Cert.)	Rater certifies unit meets IECC 2009 energy code, field verification and includes qualifying space heating appliance and water heater. Must provide required rater documentation.
ThermWise® ENERGY STAR® Version 3.0	Meet or exceed ENERGY STAR Version 3.0 and include qualified gas space heating appliance and water heater. Field verification and supporting documentation by home energy rater (HERS) must be provided.
ThermWise® High Performance Home	Exceed ENERGY STAR Version 3.0 and achieve a HERS score of 50 or better. Include a qualified gas space heating appliance and/or water heater. Field verification and supporting documentation by home energy rater (HERS) must be provided.
Stand-alone options	
2X6 R-20 Walls	IECC - R-20 or code equivalent exterior walls
Storage Water Heater .62 EF	EF ≥ .62 < .67
Storage Water Heater .67 EF	EF ≥ .67
Condensing Storage Water Heater .90 EF	EF of ≥ .90 or TE of ≥ 90%
Hybrid Water Heater .90 EF	EF of ≥ .90 or TE of ≥ 90%
Tankless Water Heater .82 EF	EF ≥ .82 < .90
Tankless Water Heater .90 EF	EF ≥ .90
Natural Gas Furnace 92% AFUE	AFUE Rating of 92%-94.9%

Natural Gas Furnace 95% AFUE	AFUE Rating of $\geq 95\%$
Natural Gas Furnace with ECM 95% AFUE	AFUE Rating of $\geq 95\%$ with Electronically Commutated Motor (ECM)
Natural Gas Furnace with ECM 98% AFUE	AFUE Rating of $\geq 98\%$ with Electronically Commutated Motor (ECM)
Natural Gas Boiler 85% AFUE	AFUE Rating of $\geq 85\% < 95\%$
Natural Gas Boiler 95% AFUE	AFUE Rating of $> 95\%$
Solar Assisted Water Heating SRCC OG-300	Active system certified OG- 300 by SRCC
Solar Assisted Pool Heater SRCC OG-100	Certified OG-100 by SRCC
Windows – U-value ≤ 0.22	High performance windows with U-value ≤ 0.22

ENERGY STAR® Version 3.0

Builders may receive rebates for building a dwelling unit that qualifies under ENERGY STAR® Version 3. Field verification and ENERGY STAR® Version 3 compliance certificate by Home Energy Rater (HERS) will be required before ENERGY STAR® Version 3 rebate will be paid. To be eligible homes must include qualified gas space heating and water heating.

High Performance Home

Builders may receive rebates for building a high performance home. To qualify a dwelling must meet or exceed ENERGY STAR® Version 3 and the home must also meet or exceed a HERS score of 50. Field verification, an ENERGY STAR® certificate and documentation verifying the home has met the high performance home requirements will be required from rater before high performance home rebate will be paid. To be eligible homes must include qualified gas space heating and water heating.

ThermWise® Builder Option Package 1 (BOP 1) - Builder certified 2009 IECC with TBC

Builders may receive rebates for building a dwelling unit that qualifies under the 2009 IECC. Field verification and builder certification will be required before IECC 2009 builder certified rebate will be paid

ThermWise® Builder Option Package 2 (BOP 2) - Rater certified 2009 IECC

Builders may receive rebates for building a dwelling unit that qualifies under the 2009 IECC. Field verification and supporting documentation by (HERS) will be required before IECC 2009 rater certified rebate will be paid.

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 $> 92\%$.
- The builder must purchase and install a model with an AFUE Rating of $\geq 95\%$.
- The builder must purchase and install a model with an AFUE Rating of $\geq 95\%$ with Electronically Commutated Motor (ECM).
- The builder must purchase and install a model with an AFUE Rating of $\geq 98\%$ with Electronically Commutated Motor (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) $\geq .62 < .67$.
- 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) $\geq .82 \leq .90$.
- 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 $\geq .90$ or Thermal Efficiency (TE) 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 a (EF) of $\geq .90$ or (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 IECC 2x6 R-20 or code equivalent exterior wall. 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.

Program Rebates

A completed rebate application must be submitted within 6 months of the initiation of gas service for the subject dwelling units to be eligible to receive a rebate. Upon Builder rebate credit process implementation, Builders may elect to receive either a rebate check or a rebate credit for installing furnaces or storage water heaters which meet the minimum efficiency qualifications listed in the Builder Rebates Table. 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. Credits will be calculated using the established furnace and/or storage water heater rebate amounts listed in the following table. A rebate check will be the only option for all other measures (non-furnace and storage water heaters) listed in the following table. Rebates will be sent to the Builder contact listed on the builder participation agreement.

Single (1-4 units) & Multifamily (5 or more units)	
Measure	Rebate SF/MF
Whole home options (must include qualifying stand-alone furnace & water heater)	
ThermWise® BOP 1 (Builder Cert.) <ul style="list-style-type: none"> Furnace Water heater 	\$50 (SF) /\$50 (MF) \$200-\$450 \$50-\$350
ThermWise® BOP 2 (Rater Cert.) <ul style="list-style-type: none"> Furnace Water heater 	\$100 (SF) /\$100 (MF) \$200-\$450 \$50-\$350
ENERGY STAR® Version 3.0 <ul style="list-style-type: none"> Furnace Water heater 	\$300 (SF) /\$200 (MF) \$200-\$450 \$50-\$350
High Performance Home <ul style="list-style-type: none"> Furnace Water heater 	\$500 (SF) /\$300 (MF) \$200-\$450 \$50-\$350
Stand-alone options	
2X6 R-20 Walls	\$350/\$150
Storage Water Heater .62 EF	\$50
Storage Water Heater .67 EF	\$100
Condensing Storage Water Heater .90 EF	\$350
Hybrid Water Heater .90 EF	\$350
Tankless Water Heater .82 EF	\$300
Tankless Water Heater .90 EF	\$350
Natural Gas Furnace 92% AFUE	\$200
Natural Gas Furnace 95 % AFUE	\$350
Natural Gas Furnace with ECM 95% AFUE	\$400
Natural Gas Furnace with ECM 98% AFUE	\$450
Natural Gas Boiler 85 % AFUE	\$400

Natural Gas Boiler 95 % AFUE	\$600
Solar Assisted Water Heating SRCC OG-300	\$750
Solar Assisted Pool Heater SRCC OG-100	\$750
Windows – U-value ≤ 0.22	\$2.50/ sq. ft.

Rebate Limitations

The following requirements apply to rebate application payments for the program:

- Rebates are limited to one energy-efficient Whole House Certification rebate per qualifying newly constructed, dwelling unit (as further described above under the Qualified Energy Efficiency Measures section) and will be tracked by Builder, meter number and address.
- Builders are eligible to receive rebates for a maximum of two (2) qualifying measures per measure type in each newly constructed, dwelling unit. Builders are only eligible to receive an additional whole home performance option measure if they have installed a qualifying space heating appliance and water heater. They can receive a maximum of two individual measure incentives per home plus one performance measure.
- A complete rebate application must be submitted within 6 months of the initiation of gas service for the subject dwelling unit to be eligible to receive a rebate.
- Qualifying packages and/or measures receiving rebates under the program may not receive equipment purchase and installation rebates under any other Questar Gas Energy Efficiency program.
- Dwelling unit must be located in Questar Gas' Utah service territory.

Projected Participants

Single (1-4 units) & Multifamily (5 or more units)		
Measure	Participants	
	Single Family	Multifamily
Whole home options (must include and qualifying standalone furnace & water heater)		
ThermWise® BOP 1 (Builder Cert.)	296	69
ThermWise® BOP 2 (Rater Cert.)	291	69
ENERGY STAR® Version 3.0	276	100
High Performance Home	22	84
Total Whole home options	885	322
Stand-alone options		
2X6 R-20 Walls	108	200
Storage Water Heater .62 EF	922	500
Storage Water Heater .67 EF	150	20
Condensing Storage Water Heater .90 EF	5	5
Hybrid Water Heater .90 EF	20	5
Tankless Water Heater .82 EF	30	12
Tankless Water Heater .90 EF	30	5
Natural Gas Furnace 92% AFUE	1,179	730
Natural Gas Furnace 95 % AFUE	1,614	559

Natural Gas Furnace with ECM 95% AFUE	104	28
Natural Gas Furnace with ECM 98% AFUE	2	0
Natural Gas Boiler 85% AFUE	5	5
Natural Gas Boiler 95% AFUE	38	5
Solar Assisted Water Heating SRCC OG-300	35	0
Solar Assisted Pool Heater SRCC OG-100	5	2
Windows – U-value ≤ 0.22	5	5
Total Stand-alone options	4,252	2,081
TOTAL Builder Program	5,137	2,403

Projected Savings

Measure	Single Family Total Annual Gross Savings (decatherms)	Multifamily Total Annual Gross Savings (decatherms)
ThermWise® BOP 1 (Builder Cert.)	5,062	449
ThermWise® BOP 2 (Rater Cert.)	6,227	573
ENERGY STAR® Version 3.0	8,446	1,470
High Performance Home	950	1,739
2X6 R-20 Walls	1,382	800
Storage Water Heater .62 EF	1,577	855
Storage Water Heater .67 EF	594	79
Condensing Storage Water Heater .90 EF	46	46
Hybrid Water Heater .90 EF	204	51
Tankless Water Heater .82 EF	264	44
Tankless Water Heater .90 EF	288	115
Natural Gas Furnace 92% AFUE	11,177	4,088
Natural Gas Furnace 95% AFUE	18,077	3,634
Natural Gas Furnace with ECM 95% AFUE	1,165	182
Natural Gas Furnace with ECM 98% AFUE	25	0
Natural Gas Boiler 85% AFUE	612	60
Natural Gas Boiler 95% AFUE	60	81
Solar Assisted Water Heating SRCC OG-300	613	0
Solar Assisted Pool Heater SRCC OG-100	345	138
Windows – U-value ≤ 0.22	36	13
TOTAL Builder Program	57,149	14,416

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, 2014

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. Some modifications may be required due to program changes for 2014.