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# Energy Efficiency Program Proposal

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## ThermWise<sup>®</sup> Appliance Rebates Program

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# Program Overview

## Description

Questar Gas Company (Questar Gas) is proposing to continue offering the ThermWise® Appliance Rebates Program to Questar Gas residential GS customers in Utah. This program will be delivered to customers in the Company's Utah service territory. Rebates will be offered on qualified program measures and mailed to the participating customer upon proof of purchase and/or installation.

Program measures will include high-efficiency clothes washers, space and water-heating appliances, and energy-efficient gas fireplaces. Rebates for most measures will be available regardless of who installs the product.

The program will be delivered through local retail, distributor and contractor channels.

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# Program Design

## Program Measures

### Qualifying Customers

All residences receiving service on the GS rate schedule in Questar Gas's Utah service territory are eligible to participate in the program.

### Qualified Energy Efficiency Measures

For a complete list of rebate-qualifying models for each measure, please visit [ThermWise.com](http://ThermWise.com).

For a complete list of minimum efficiency requirements and rebate amounts, see section 2.10 of the Questar Gas Company Utah Tariff (QGC Energy Efficiency Exhibit 1.10).

### Gas Furnaces

Customers may receive a rebate for installing a high-efficiency gas furnace. Eligibility requirements for differing tiers are defined as follows:

- Natural Gas Furnace 92% AFUE, the customer must purchase and install a model with an AFUE rating of  $\geq 92\% < 95\%$ .
- Natural Gas Furnace 95% AFUE, the customer must purchase and install a model with an AFUE rating of  $\geq 95\% < 97.5\%$ .
- Natural Gas Furnace with ECM 95% AFUE, the customer must purchase and install a model with an AFUE rating of  $\geq 95\% < 97.5\%$  with an ECM.
- Natural Gas Furnace with ECM 98% AFUE, the customer must purchase and install a model with an AFUE rating of  $\geq 97.5\%$  with an ECM.

### Gas Storage Water Heaters

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

- Storage Water Heater .67 EF, the customer must purchase and install a model with an EF  $\geq 0.67$ .

### Tankless Gas Water Heaters

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

- Tankless Water Heater .82 EF, the customer must purchase and install a model with an EF  $\geq 0.82 < 0.90$ .
- Tankless Water Heater .90 EF, the customer must purchase and install a model with an EF  $\geq 0.90$ .

### Condensing Storage Water Heater

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

- Condensing Storage Water Heater .90 EF, the customer must purchase and install a model with an EF  $\geq 0.90$ .

## Hybrid Water Heater

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

- Hybrid Water Heater .90 TE, the customer must purchase and install a qualified model with a TE  $\geq$  0.90.

## Gas Boilers

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

- Natural Gas Boiler 85% AFUE, the customer must purchase and install a qualified model with an AFUE rating  $> 85\% < 95\%$ .
- Natural Gas Boiler 95% AFUE, the customer must purchase and install a qualified model with an AFUE rating  $\geq 95\%$ .

## Solar Assisted Gas Water Heating

Customers may receive a rebate for installing a high-efficiency solar assisted gas water heating system. Eligibility requirements are defined as follows:

- Solar Assisted Water Heater certified OG-300 by the Solar Rating and Certification Corporation (SRCC), customers may receive a rebate for installing solar assisted domestic gas water heating systems.
- Solar Assisted Pool Water Heater certified SRCC OG-100, customers may receive a rebate for installing solar assisted domestic pool gas water heating systems.

## Clothes Washer

Customers may receive a rebate for installing a top tier qualified clothes washer. Eligibility requirements are defined as follows:

- Clothes Washer 2.74 IMEF, the customer must purchase a qualifying model with an IMEF of  $\geq 2.74$  and have a gas water heater.

## Direct Vent Gas Fireplace

Customers may receive a rebate for installing a high-efficiency direct-vent, natural gas fireplace. Eligibility requirements are defined as follows:

- Fireplace 70% AFUE, the customer must install a qualifying fireplace with an AFUE of  $\geq 70\%$ , intermittent ignition, heat rated, thermostatically controlled with a blower.

## 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)

## Program Projected Participation and Savings

To receive a rebate, customers must install a qualifying program measure, then complete and submit a rebate application form within six months of the measure installation date. Rebate amounts, projected participation, and

natural gas savings estimates are provided in Table 1. Rebate amounts are shown per unit and were determined by examining the best available information on incremental costs of the equipment, recognizing the minimum rebate levels necessary to constitute a viable marketing message, and overall program cost effectiveness.

**Table 1. Appliance Energy Efficiency Projected Participation and Savings**

<b>Single Family (1-4 units)</b>		
<b>Measure</b>	<b>Projected Participation</b>	<b>Total Projected Savings (annual Dth)</b>
Natural Gas Furnace 92% AFUE	63	1,046
Natural Gas Furnace 95% AFUE	2,929	60,045
Natural Gas Furnace with ECM 95% AFUE	4,464	91,512
Natural Gas Furnace with ECM 98% AFUE	350	7,630
Clothes Washer 2.74 IMEF	6,773	8,263
Storage Water Heater .67 EF	761	2,176
Condensing Storage Water Heater .90 EF	50	434
Hybrid Water Heater .90 EF	10	87
Natural Gas Boiler 85% AFUE	40	748
Natural Gas Boiler 95% AFUE	76	1,915
Solar Assisted Water Heater SRCC OG-300	10	175
Solar Assisted Pool Heater SRCC OG-100	10	689
Tankless Water Heater .82 EF	83	710
Tankless Water Heater .90 EF	691	6,475
Fireplace 70% AFUE	243	2,624
Smart Thermostat	4,517	38,846
<b>TOTAL Single Family</b>	<b>21,070</b>	<b>223,375</b>
<b>Multifamily (5 or more units)</b>		
<b>Measure</b>	<b>Projected Participation</b>	<b>Total Projected Savings (annual Dth)</b>
Natural Gas Furnace 92% AFUE	5	28
Natural Gas Furnace 95% AFUE	70	455
Natural Gas Furnace with ECM 95% AFUE	30	195
Natural Gas Furnace with ECM 98% AFUE	5	109
Clothes Washer 2.74 IMEF	15	18
Storage Water Heater .67 EF	5	14
Condensing Storage Water Heater .90 EF	5	27
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
Tankless Water Heater .82 EF	5	27
Tankless Water Heater .90 EF	3	18
Fireplace 70% AFUE	5	21
Smart Thermostat	28	112
TOTAL Multifamily	201	1,625
TOTAL Appliance Program	21,271	225,000

## Rebate Limitations

ThermWise® Appliance Rebate program limitations are defined in Section 2.10 of the Questar Gas Company Utah Tariff (QGC Energy Efficiency Exhibit 1.10).

## 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, 2016.

## 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 2016.