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# Energy Efficiency Program Proposal

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

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# Program Overview

## Description

The ThermWise® Weatherization Rebate program targets residences receiving service on the GS rate schedule. A qualifying single-family residence is an existing structure that has up to four residential dwelling units. A qualifying multifamily residence is an existing dwelling having five or more residential dwelling units. To qualify for insulation, air sealing and duct related rebates, customers will be required to have measures installed by a ThermWise® Authorized Contractor.

For qualifying multifamily residences, a pre-qualification inspection will be required. This program will offer incentives for qualifying weatherization measures. Weatherization measure delivery will leverage the marketing access and existing delivery channels of local businesses, wholesalers and retailers.

Questar will work with its authorized contractors to identify previously completed measures in a premise. If a premise has received rebates and conditions warrant additional attic, floor or wall insulation work to be completed, approval may be granted based on the recommendation from a ThermWise® Home Energy Plan, inspection or documented program approval for specific work.

# Program Design

## Program Measures

### Qualifying Customers

Separately metered existing single-family or multifamily residences in Questar Gas Utah service territories that are billed on the GS rate schedule are eligible to participate in the ThermWise Weatherization Rebates program.

### Measure Eligibility

To receive a rebate, customers must submit a completed application form within 6 months of the installation date and provide all required documentation.

A Home Energy Plan will be required for participation in the air sealing measure. Questar Gas Home Energy Experts will conduct a blower door test as part of the audit to determine eligibility. Only single-family units will be eligible for the air-sealing program. Participation in any attic related air-sealing will require that customers have a weighted R-value of R-38 or better attic insulation once air-sealing specifications are achieved.

Table 1 illustrates the low-cost energy-efficiency measures and eligibility requirements under the weatherization program.

**Table 1. Weatherization Energy-Efficiency Measures**

Weatherization Rebates Efficiency Measure 1	Windows 3,5	U ≤ 0.22 Windows 4,5	Attic Insulation 5,6	Wall Insulation 5,7	Floor Insulation 5,7	Duct Sealing & Insulation 8	Air Sealing 9
Baseline requirement	Existing home with gas heat	Existing home with gas heat	Existing home with gas heat	Existing home with gas heat	Existing home with gas heat	Existing home with gas heat that meets the program criteria	Existing Single-family homes – pre-approved by a Home Energy Plan and combined with attic insulation that meets the program criteria
Efficiency requirements	U-factor of .30 or lower	U-factor of .22 or lower	Tier 1 – Minimum increment of R-19 or higher with a post installation R-value of at least R-38 but not more than R-60	Increment of R-11 or higher	Increment of R-19 or higher	Must be done to Questar Gas duct sealing & insulation specification	Must be done to Questar Gas air sealing specification

			Tier 2 – An additional increment of at least R-11 with at least R-38 but not to exceed R-60				
Installation by pre-qualified contractor required <sup>2</sup>	No	No	Yes	Yes	Yes	Yes	Yes

<sup>1</sup> These measures are available to existing dwelling units heated with natural gas. Multifamily units must have a pre-qualification inspection.

<sup>2</sup> If “Yes,” this measure must be installed by a ThermWise® Authorized Contractor.

<sup>3</sup> Including sliding glass patio doors, but excluding all other doors (storm doors, wood and/or metal doors with windows). Energy performance of window assemblies and glazing products must be rated in accordance with NFRC. Site built windows or glass only will not qualify for a rebate in the residential weatherization program.

<sup>4</sup> U-value ≤ 0.22.

<sup>5</sup> Eligible installations must be between a heated space and an unconditioned space or area outside of the building envelope. An unconditioned space is defined as an area or room within a building that is not being heated or cooled, that has no fixed opening directly into an adjacent conditioned space, or which is outside of the building envelope.

<sup>6</sup> Questar will allow a premise that previously received an attic insulation incentive to participate in the program again based on the recommendation of a ThermWise® Home Energy Plan, inspection or documented program approval. In the case of such a recommendation, the homeowner will be eligible to participate in the Tier 2 attic insulation measure without additional participation in the Tier 1 measure. A new homeowner of an existing premise may also qualify for participation in just the Tier 2 attic insulation rebates.

<sup>7</sup> Floor and wall insulation may be eligible for multiple rebates when the work completed covers a portion of the dwelling not previously submitted for a rebate.

<sup>8</sup> Eligible rebates are available only for work completed per the duct sealing and duct insulation specifications posted on ThermWise.com and are only available to dwelling units with heating ducts outside conditioned space. Duct Sealing and insulation is allowed on a one-time per premise basis. The work must be completed on the entire system outside conditioned space. Both single-family and multifamily residences are eligible with pre-qualification inspections required on all multifamily units.

<sup>9</sup> To be eligible for an air sealing measure a single family dwelling must first be tested by a ThermWise Home Energy Plan or Low-Income Assistance program audit which recommends air sealing. Air sealing will be available on a one-time basis per premise. The work must adhere to the specifications posted on ThermWise.com. The final R-value of attic insulation must meet or exceed R-38.

## Program Rebates

Weatherization energy efficiency measures are outlined below in Table 2 and include the associated available incentive per unit. These measures will be available to residential customers based on measure eligibility requirements.

**Table 2. Weatherization Energy Efficiency Measures Incentives**

Program Measure	Incentive \$	Unit
Windows	\$0.95	sq. ft.
Windows U-value $\leq 0.22$	\$2.50	sq. ft.
Attic Insulation	All completed projects must have minimum insulation levels of R-38 but not greater than R-60  Tier 1 - \$0.25 requires R-19  Tier 2 - \$.07 Combined with Tier 1 to add R-11 or greater to achieve at least an R-38	sq. ft.
Wall Insulation	\$0.30	sq. ft.
Floor Insulation	\$0.20	sq. ft.
Duct Sealing and Insulation	<b>Single Family</b>  \$100 per job plus \$5.25/linear ft. not to exceed a total rebate of \$450  <b>Multifamily</b>  \$100 per job plus \$5.25/linear ft. not to exceed a total rebate of \$250	each
Air Sealing	<b>Single Family</b>  \$100 per job + \$0.18 sq. ft. of conditioned floor area not to exceed a total rebate of \$850	each

## Rebate Limitations

In addition to the requirements in Table 2, the following requirements apply to rebate application payments for the program:

- Rebates are limited to existing homes with natural gas as the primary source of heat.
- Rebate may be scaled based upon the size of the system or conditioned floor area of a home.
- Rebates are only available for work that has not been previously rebated with some exceptions as noted.
- Adhere to all program specifications.
- Comply with all local codes and ordinances.
- Pre-inspection required on all multifamily jobs.
- Customers will be required to have insulation, duct measures and air sealing installed by a ThermWise® Authorized Contractor in order to qualify for rebates. Insulation self-installations are permitted.
- Qualifying 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 territories and be a Questar Gas residential customer (i.e. meter set or account activated).
- Questar Gas will only offer a rebate for one attic measure per premise, except in the case where additional attic insulation is recommended by a ThermWise® Home Energy Plan or Low income program recommendation or by receiving program approval.
- Unless otherwise set forth herein, Questar Gas will only offer a rebate for one measure per premise. Rebates will be allowed for the same measure in a premise given it is for a different area of the home, excluding duct and air sealing measures. Please refer to posted program rules or contact program before proceeding with a project if you have specific questions.
- Except as set forth in Exhibit 1.6, rebate checks will be made payable to the Questar Gas customer account name on record, not necessarily the name provided by the customer in the rebate application, and mailed to the mailing address listed on the Questar Gas customer account. Exceptions may be made through the Property Owner Addendum.

## Projected Participation and Savings

Table 3 summarizes the ThermWise® Weatherization Rebates program's expected customer participation and natural gas savings estimate for each measure.

**Table 3. Weatherization Energy Efficiency Measure Participation Estimates**

<b>Single Family (1-4 units)</b>									
	<b>Windows</b>	<b>Window U ≤ 0.22</b>	<b>Wall Insulation</b>	<b>Attic Insulation Tier 1</b>	<b>Attic Insulation Tier 2</b>	<b>Floor Insulation</b>	<b>Duct Sealing &amp; Insulation</b>	<b>Air Sealing</b>	<b>Total</b>
	#	#	#	#	#	#	#	#	
Estimated Participants	19,604	471	905	16,775	11,903	321	312	1,671	<b>51,962</b>
Units per Participant	15	15	859	1,377	1699	798	1	2,394	N/A
Estimated Units	290,266	7,216	777,653	23,100,510	20,222,277	256,244	312	4,000,872	N/A
Savings Estimates (Dth/yr)	11,959	504	4,122	122,433	26,289	1,742	4,206	19,204	<b>190,459</b>
<b>Multifamily (5 or more units)</b>									
	<b>Windows</b>	<b>Window U ≤ 0.22</b>	<b>Wall Insulation</b>	<b>Attic Insulation Tier 1</b>	<b>Attic Insulation Tier 2</b>	<b>Floor Insulation</b>	<b>Duct Sealing &amp; Insulation</b>	<b>Air Sealing</b>	<b>Total</b>
	#	#	#	#	#	#	#	N/A	
Estimated Participants	3	0	3	5,468	3,929	23	6,182	N/A	<b>15,608</b>
Units per Participant	1,007	0	340	989	965	91	1	N/A	N/A
Estimated Units	3,021	0	1,019	5,409,795	3,793,061	2,091	6,182	N/A	N/A
Savings Estimates (Dth/yr)	124	0	5	28,672	4,931	14	49,456	N/A	<b>83,202</b>

## 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.