
Energy Efficiency Program Proposal

ThermWise[®] Builder Rebates Program

Program Overview

Description

Dominion Energy Utah (Dominion Energy or the Company) is proposing to continue the ThermWise Builder Rebates program. The program will be delivered to the market and administered by Dominion Energy. The program will be available to residential builders in the Company's 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. This could also include payments to ICAST as part of the pilot program. 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 may also be available to builders who install qualifying equipment as defined in Section 2.11 of the Company's Utah Tariff (DEU Energy Efficiency Exhibit 1.9).

The program is designed to leverage marketing and delivery directly to Utah home builders using the Company's staff and any additional program implementation staff as needed. Development, implementation, training, support, and administration will be provided by the Company. All rebates and or credits will be available directly to builders upon completion of program requirements.

Program Design

Program Measures

Qualifying Customers

Metered single family or multifamily newly constructed residences, in the Company's 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 Company's Utah Tariff (DEU 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 excluding energy provided by solar.

ENERGY STAR® Bonus

Builders may receive rebates for building a dwelling unit that qualifies under RemRate version 15.2 or higher of the RESNET guidelines or other equivalent versions of approved software tools. Any updates will be posted on www.ThermWise.com 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 natural gas space heating and natural gas water heating.

ENERGY STAR® High rise (new Multifamily)

Builders may receive rebates for building a dwelling unit that qualifies under the most recently adopted version of ENERGY STAR® Multifamily High rise. Submittals, which must be validated by a licensed professional, are used to demonstrate that the program's requirements have been met, that all prerequisites are included, and that each energy conservation measure is installed to specification. To be eligible, homes must include qualified natural gas space heating and natural gas water heating.

Pay for Performance (new Multifamily)

The proposed Multifamily Performance measure would compare the energy usage of new multifamily properties against a software-designed reference property. The reference property would be based on existing Utah building codes. Incentives for this measure would be based on the software's calculation of the difference between the natural gas usage of the reference and above-code multifamily properties. The proposed Multifamily Performance measure is similar to the Commission-approved HERS rebates for single family properties offered by the Company beginning in the 2017 ThermWise program year.

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 $\geq 95\% < 97.5\%$.
- 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 an ENERGY STAR Certified water heater. 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 tankless ENERGY STAR certified water heater.

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 an ENERGY STAR Certified water heater with documentation verifying it is a condensing unit.

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 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.

Combined Space and Water Heater Units

Customers may receive a rebate for installing a combined space and water heating units. Eligibility requirements are defined as follows:

- Must be considered one unit by manufacturer
- AFUE ≥ 95%

Program Rebates, Projected Participation and Savings

A completed rebate application must be submitted within six months of the home occupancy date for 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 (1-3 units)		
Measure	Projected Participation	Total Projected Savings (annual Dth)
HERS Index 62 or lower	1,600	8,320
HERS Index 55 or lower	600	4,992
HERS Index 48 or lower	10	156
Energy Star 3.0 Bonus	600	1,668
Natural Gas Furnace 95% AFUE	8,500	86,063

Natural Gas Furnace with ECM 95% AFUE	1,000	10,125
Natural Gas Furnace with ECM 97.5% AFUE	20	243
Storage Water Heater	515	1,473
Tankless Water Heater	110	942
Condensing Storage Water Heater	10	87
Hybrid Water Heater .90 TE	5	43
Natural Gas Boiler 85% AFUE	9	82
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	1,200	6,480
Windows – U-Value \leq 0.22	200	5.8
Smart Thermostat	450	1,935
Combined Space and Hot Water	5	92
TOTAL Single Family	14,877	124,916
Multifamily (4or more units)		
Measure	Projected Participation	Total Projected Savings (annual Dth)
HERS Index 62 or lower	10	23
HERS Index 55 or lower	0	0
HERS Index 48 or lower	0	0
Energy Star 3.0 Bonus	0	0
Natural Gas Furnace 95% AFUE	1,500	11,400
Natural Gas Furnace with ECM 95% AFUE	33	251
Natural Gas Furnace with ECM 97.5% AFUE	5	46
Storage Water Heater	715	994
Tankless Water Heater	5	27
Condensing Storage Water Heater	0	0
Hybrid Water Heater .90 TE	5	27
Natural Gas Boiler 85% AFUE	5	45
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
Combined Space and Hot Water	15	180

Energy Star High rise	300	339
Pay for Performance Multifamily	15 Projects	Varies by project
TOTAL Multifamily	2,618	13,853
TOTAL Builder Program	17,495	138,769

Rebate Limitations

ThermWise Builder Rebate program limitations are defined in Section 2.11 of the Company's Utah Tariff (DEU 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 January 1, 2019.

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.