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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

Dominion Energy Utah (Dominion Energy or the Company) is proposing to continue offering the ThermWise Appliance Rebates Program to Dominion Energy 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 space-heating equipment, water-heating equipment, and 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 the Dominion Energy 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 Company's Utah Tariff (DEU Energy Efficiency Exhibit 1.9).

### Gas Furnaces

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

- The customer must purchase and install a model with an AFUE rating of  $\geq 92\% < 95\%$ .
- The customer must purchase and install a model with an AFUE rating of  $\geq 95\% < 97.5\%$ .
- The customer must purchase and install a model with an AFUE rating of  $\geq 95\% < 97.5\%$  with an ECM.
- 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 natural gas storage water heater. Eligibility requirements are defined as follows:

- The customer must purchase and install an ENERGY STAR® Certified storage water heater. Qualifying water heaters will have a minimum of 40 gallons in capacity.

### Tankless Gas Water Heaters

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

- The customer must purchase and install an ENERGY STAR® Certified tankless water heater.

### Condensing Storage Water Heater

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

- The customer must purchase and install an ENERGY STAR® Certified condensing storage water heater with documentation verifying it is a condensing unit.

### Hybrid Water Heater

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

- 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 natural gas boiler. Eligibility requirements are defined as follows:

- The customer must purchase and install a qualified model with an AFUE rating  $> 85\% < 95\%$ .
- The customer must purchase and install a qualified model with an AFUE rating  $\geq 95\%$ .

## Solar Assisted Gas Water Heating (domestic)

Customers may receive a rebate for installing a 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)

Customers 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).

## 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:

- 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)

## Boiler Reset Control

Customers may receive a rebate for installing a boiler reset control. Eligibility requirements are defined as follows:

- Install after-market boiler reset control
- Control must automatically adjust supply temperature based on outside air temperature

## 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  $\geq 95\%$

## 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**

Single Family (1-4 units)		
Measure	Projected Participation	Total Projected Savings (annual Dth)
Natural Gas Furnace 92% AFUE	61	591
Natural Gas Furnace 95% AFUE	6,400	75,328
Natural Gas Furnace with ECM 95% AFUE	3,000	35,310
Natural Gas Furnace with ECM 98% AFUE	700	9,695
Storage Water Heater	761	2,176
Condensing Storage Water Heater	70	608
Hybrid Water Heater .90 EF	10	87
Natural Gas Boiler 85% AFUE	40	748
Natural Gas Boiler 95% AFUE	81	2,041
Solar Assisted Water Heater SRCC OG-300	7	123
Solar Assisted Pool Heater SRCC OG-100	7	482
Tankless Water Heater	725	6,793
Fireplace 70% AFUE	351	3,790
Smart Thermostat	11,500	98,900
Boiler Reset Control	20	108
Combined Space and Water Heater Units	5	95
<b>TOTAL Single Family</b>	<b>23,738</b>	<b>236,877</b>
Multifamily (5 or more units)		
Measure	Projected Participation	Total Projected Savings (annual Dth)
Natural Gas Furnace 92% AFUE	5	37
Natural Gas Furnace 95% AFUE	40	352
Natural Gas Furnace with ECM 95% AFUE	20	176
Natural Gas Furnace with ECM 98% AFUE	5	52
Storage Water Heater	80	172
Condensing Storage Water Heater	0	0
Hybrid Water Heater .90 EF	0	0
Natural Gas Boiler 85% AFUE	1	12

Natural Gas Boiler 95% AFUE	1	16
Solar Assisted Water Heater SRCC OG-300	0	0
Solar Assisted Pool Heater SRCC OG-100	1	69
Tankless Water Heater .90 EF	1	6
Fireplace 70% AFUE	1	4
Smart Thermostat	90	360
Combined Space and Water Heater Units	5	71
TOTAL Multifamily	250	1,325
TOTAL Appliance Program	23,988	238,202

### Rebate Limitations

ThermWise Appliance Rebate program limitations are defined in Section 2.10 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 in order to launch January 1, 2018.

### 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.