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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.

# 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](https://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 annual fuel utilization efficiency (AFUE) rating of  $\geq 95\% < 97.5\%$ .
- The customer must purchase and install a model with an AFUE rating of  $\geq 97.5\%$ .

### Dual-Fuel Heating System – Tier 1

Customers may receive a rebate for installing a high-efficiency dual-fuel heating system. Eligibility and installation requirements are available at [thermwise.com/equipment-specs/dual-fuel](https://thermwise.com/equipment-specs/dual-fuel).

### Dual-Fuel Heating System – Tier 2

Customers may receive a rebate for installing a high-efficiency dual-fuel heating system. Eligibility and installation requirements are available at [thermwise.com/equipment-specs/dual-fuel](https://thermwise.com/equipment-specs/dual-fuel).

### 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 a Fireplace Efficiency (FE) of  $\geq 70\%$  with an electronic pilot ignition.

### **Smart Thermostat – Tier 1**

Customers may receive a rebate for installing a smart thermostat. Eligibility requirements are defined as follows:

- ENERGY STAR® qualified thermostat
- Wi-Fi enabled; must be able to communicate wirelessly
- Programmable for schedules
- With qualifying geofencing technology

### **Smart Thermostat – Tier 2**

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
- Online dashboard and/or mobile app connected to the user account
- With qualifying occupancy sensor technology

### **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%

### **Smart Water Heater Controller**

Customers may receive a rebate for installing a smart water heater controller or purchasing a new storage water heater that has a factory installed web enabled smart water heater control. Eligibility requirements are defined as follows:

- The rebate is limited to smart water heater controllers installed on gas fired storage tank water heaters
- The controllers must have remote water heater on and off and/or setback capabilities using a smartphone app or other online interface
- The ability to implement and/or suggest a water heating schedule to prevent standby firings of the water heater during periods of non-use

### **Energy Recovery Ventilation (ERV)**

Customers may receive a rebate for installing an energy recovery ventilation (ERV) system. Eligibility requirements are defined as follows:

- Gas space heating is required
- Must include a central system with internal fan system and separation of indoor and outdoor airflows
- Must not be required by code

## 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 (1-3 units)		
Measure	Projected Participation	Total Projected Savings (annual Dth)
Natural Gas Furnace 95% AFUE	4,300	50,611
Natural Gas Furnace 98% AFUE	350	4,848
Storage Water Heater	200	572
Condensing Storage Water Heater	20	174
Hybrid Water Heater .90 EF	15	130
Natural Gas Boiler 85% AFUE	10	179
Natural Gas Boiler 95% AFUE	100	2,190
Solar Assisted Water Heater SRCC OG-300	4	70
Solar Assisted Pool Heater SRCC OG-100	4	276
Tankless Water Heater	1,700	15,929
Fireplace 70% FE	100	1,080
Smart Thermostat - Tier 1	1,200	7,320
Smart Thermostat - Tier 2	2,000	17,200
Boiler Reset Control	10	54
Combined Space and Water Heater Units	40	760
Smart Water Heater Controller	30	75
Dual-Fuel Heat Pump System - Tier 1	1,200	30,540
Dual-Fuel Heat Pump System - Tier 2	250	8,170
Energy Recovery Ventilation (ERV)	40	416
<b>TOTAL Single Family</b>	<b>11,573</b>	<b>140,593</b>
Multifamily (4 or more units)		
Measure	Projected Participation	Total Projected Savings (annual Dth)
Natural Gas Furnace 95% AFUE	300	2,640
Natural Gas Furnace 98% AFUE	50	520

Storage Water Heater	4	9
Condensing Storage Water Heater	75	405
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	4	24
Fireplace 70% AFUE	4	16
Combined Space and Water Heater Units	0	0
Smart Water Heater Controller	0	0
Dual-Fuel Heat Pump System - Tier 1	8	97
Dual-Fuel Heat Pump System - Tier 2	2	34
Energy Recovery Ventilation (ERV)	1	5
Smart Thermostat - Tier 1	25	100
Smart Thermostat - Tier 2	50	315
<b>TOTAL Multifamily</b>	<b>526</b>	<b>4,262</b>
<b>TOTAL Appliance Program</b>	<b>12,099</b>	<b>144,855</b>

### 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, 2024.

### 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 for 2024.