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# Energy Efficiency Program Proposal

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ThermWise<sup>®</sup> Business Rebates Program

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## Program Overview

### Description

Dominion Energy Utah (Dominion Energy or the Company) is proposing to continue offering the ThermWise Business Program to Dominion Energy commercial GS customers. The ThermWise Business Rebate program is a comprehensive program that offers rebates to Dominion Energy GS commercial customers. Rebates are available for purchasing and installing qualifying natural gas-efficiency measures in commercial units. Qualifying measures include those that target cost-effective natural gas savings including retrofits of existing systems and first-time installations. Rebates will be paid directly to participating customers.

Program measures include high-efficiency space and water-heating applications, high-efficiency clothes washers, high-efficiency gas unit heaters, gas infrared heaters, boiler controls and tune-ups, demand control ventilation systems, food service equipment, building shell, and weatherization measures.

The program is designed to leverage the marketing access and existing delivery channels of local businesses, wholesalers, and retailers. Dominion Energy will identify customer installation opportunities, marketing activities, and assist customers with program requirements where applicable.

# Program Design

## Program Measures

### Qualifying Customers

Commercial customers in Dominion Energy’s Utah service territory that are billed on a GS rate schedule are eligible to participate in the ThermWise Business Rebates program.

### Measure Eligibility

For a complete list of minimum efficiency requirements and rebate amounts, see section 2.12 of the Company’s Utah Tariff (DEU Energy Efficiency Exhibit 1.9).

## Prescriptive Rebates, Projected Participation and Savings

Table 1 lists the ThermWise Business prescriptive and custom program’s incentive levels, projected participation, and natural gas savings for each energy-efficiency measure. Incentive levels are shown by either unit or per connected-equipment input (shown in terms of kBtu) to allow for a more customized offering per customer application.

**Table 1. Business Energy Efficiency Incentives, Projected Participation and Savings**

Measure	Projected Participation	Total Projected Savings (annual Dth)
Business Custom	40	40,000
Storage Water Heater ( $\leq$ 75 kBtu)	10	29
Storage Water Heater (> 75 kBtu)	100	8,700
Tankless Gas Water Heater (< 200 kBtu)	25	700
Tankless Gas Water Heater ( $\geq$ 200 kBtu)	25	1,785
Tankless Gas Water Heater 90% TE ( $\geq$ 200 kBtu)	20	2,550
Clothes Washer – Commercial	5	33
Modulating Gas Dryer	5	160
Gas Dryer Moisture Sensor	1	11
High Efficiency Pre-Rinse Spray Valve	25	270
Smart Thermostat	100	700
Natural Gas Furnace $\geq$ 95% AFUE	200	3,520
Natural Gas Furnace $\geq$ 97.5% AFUE	25	528
Natural Gas Boiler (hot water) 85% AFUE (<300,000 Btu/h)	10	2,600
Natural Gas Boiler (hot water) 90% TE ( $\geq$ 300,000< 2,500,000 Btu/h)	25	5,000
Natural Gas Boiler (hot water) 95%+ TE ( $\geq$ 300,000< 2,500,000 Btu/h)	30	9,150
Natural Gas Boiler (hot water) 90% TE ( $\geq$ 2,500,000 Btu/h)	10	4,770
Natural Gas Boiler (hot water) 95%+ TE ( $\geq$ 2,500,000 Btu/h)	20	12,360

Measure	Projected Participation	Total Projected Savings (annual Dth)
Natural Gas Boiler (steam) 85% AFUE (<300,000 Btu/h)	1	337
Natural Gas Boiler (steam) (Except Natural Draft $\geq$ 300,000 Btu/h)	5	1,891
Natural Gas Boiler (steam) (Natural Draft $\geq$ 300,000 Btu/h)	10	6,484
Combined Space/Water Heater	1	19
Direct Contact Gas Water Heater	1	62
Gas Unit Heater (Non-Condensing) 83% TE	50	551
Gas Unit Heater (Condensing) 90% TE	5	229
Gas Infrared Heating System	50	3,610
Modulating Gas Infrared Heating System (new const. or replacing non-IR system)	10	798
Modulating Gas Infrared Heating System	1	10
Condensing Roof Top Units (RTUs)	1	154
Boiler Outside Air Reset Control	5	370
Boiler Tune-up – Tier 1	25	490
Boiler Tune-up – Tier 2	10	489
Boiler Tune-up – Tier 3	25	1,800
Gas Commercial Fryer	30	1,818
Gas Commercial Fryer (Used)	1	61
Gas Steam Cooker	10	883
Gas Steam Cooker (Used)	1	88
Gas Convection Oven	50	2,640
Gas Convection Oven (Used)	1	53
Gas Combination Oven	35	1,410
Gas Combination Oven (Used)	1	40
Gas Griddle	5	75
Gas Griddle (Used)	1	15
Charbroiler	5	375
Charbroiler (Used)	1	75
Gas Conveyor Oven	5	442
Gas Conveyor Oven (Used)	1	88
Roof Insulation (Retrofit)	25	805
Wall Insulation (Retrofit)	10	362
Condensing Gas Storage Water Heater	4	41
Hybrid Gas Storage Water Heater 90% TE	5	51
Solar Assisted Pool Heater	1	69
Demand Control Ventilation System Tier 1	100	2,720
Demand Control Ventilation System Tier 2	10	1,360
Pipe Insulation (Hot Water)	10	421
Pipe Insulation (Steam)	5	781
Energy Recovery Ventilation	25	227
Direct-Fired Heater	20	3,312

Measure	Projected Participation	Total Projected Savings (annual Dth)
Green Certified New Building	10	7,000
Advanced Rooftop Controls $\geq 5$ tons and $\leq 10$ tons	30	1,020
Advanced Rooftop Controls $\geq 10$ tons and $\leq 15$ tons	30	1,260
Advanced Rooftop Controls $> 15$ tons	10	760
Dual-Fuel Heating System Tier 1	10	260
Dual-Fuel Heating System Tier 2	10	340
Boiler O2 Trim Controls	15	263
Boiler Linkagless Controls	5	269
High Performance New Construction	10	760
<b>TOTAL Business Program prescriptive and custom rebates</b>	<b>1,368</b>	<b>140,304</b>

## 2023 New Measure Summaries

### High Performance New Construction

Rather than pay out rebates per piece of energy efficient equipment on a new construction project, this measure evaluates the entire building including HVAC, domestic hot water, and envelope. Construction drawings provided by the customer are reviewed and specifications for the various equipment are inputted into a simplified energy modeling software program to estimate the level of gas energy savings compared to an energy code baseline. This ensures every aspect of the building that saves energy over a code baseline is included in the evaluation and those energy savings are captured through the program.

### 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 defined as follows:

- The customer must purchase and install an ENERGY STAR® Certified ducted heat pump with heating seasonal performance factor (HSPF)  $\geq 10.0$ , seasonal energy efficiency ratio (SEER)  $\geq 18$ , and energy efficiency ratio (EER)  $\geq 11.5$ .
- The customer must purchase and install an ENERGY STAR® Certified natural gas heating system with  $\geq 98\%$  AFUE to provide heat at low ambient outside air temperatures.
- The changeover set point, from heat pump to the natural gas backup, for the dual-fuel heating system must be set at 40° F or lower.

### Commercial Benchmarking

The Commercial Benchmarking service will provide customers on a Commercial GS rate schedule with technical guidance to identify natural gas saving opportunities and provide recommendations on the appropriate ThermWise for Business Rebates program to pursue. This service will ensure that eligible customers with potential for savings are actualizing the benefits offered by the natural-gas savings measures and ThermWise for Business Rebates program, resulting in savings for both the customer and the Company. Commercial Benchmarking will be a targeted customer outreach service, focused on customers with significant savings potential that do not otherwise have the in-house technical resources to determine and/or pursue such opportunities. The Commercial Benchmarking service will actualize these savings and benefits for both the customer and the Company.

The Commercial Benchmarking service provides customers with an assessment of their facility’s energy consumption and benchmarks the energy use relative to the national population of similar buildings, based on the Commercial Building Energy Consumption Survey (CBECS) data. CBECS data is collected through a survey conducted by the U.S. Department of Energy. It consists of the energy performance of buildings across a wide spectrum of space types. The benchmarking service entails a utility data review and preliminary facility audit. The utility bill data will be compared to CBECS data to determine whether the building is more or less efficient than an average, comparable building. Based on the initial findings of the utility data review and facility audit (in addition to the customer’s load and complexity of systems), the Company’s consultant will either align the customer with a Trade Ally or Preferred Contractor to pursue prescriptive measures, or recommend a “Lite Audit” or “Heavy Audit”. The consultant will also work with the Company to provide recommendations to the customer regarding natural gas saving measures to consider, and the correlating ThermWise Business Rebates program/s to pursue.

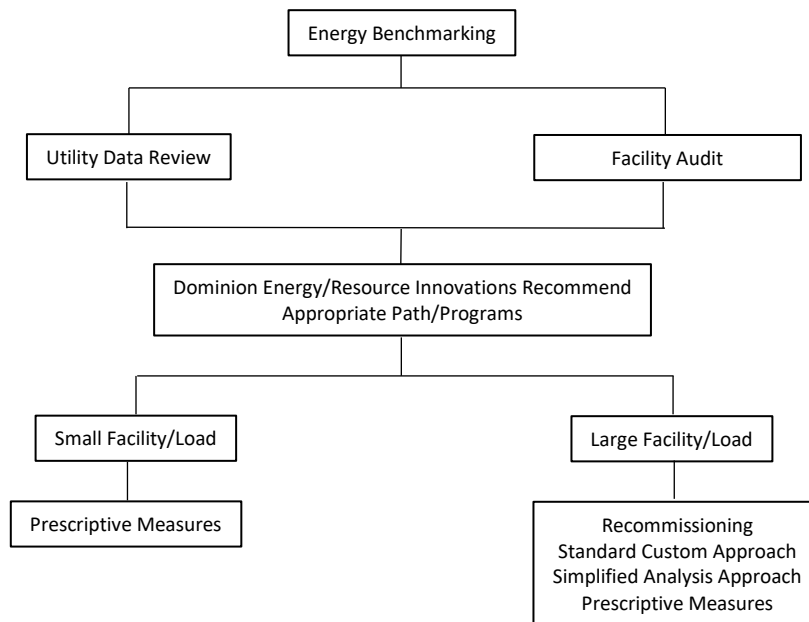
Small and medium commercial businesses will receive the “Lite Audit or Assessment”. This audit will utilize a tablet-based tool preconfigured with prescriptive measures and other custom recommendations. The Company’s consultant has already designed and effectively implemented similar tools for other utility DSM programs. The audit tool will generate a benchmarking report for the customer, including the natural gas saving opportunities identified. The Company’s consultant’s existing tablet-based audit tool will be reconfigured to align with the specific measures and metrics of the Company’s ThermWise for Business Rebates Programs.

Large commercial customers on the GS rate schedule will receive the “Heavy Audit” or Assessment. For a Heavy Audit, the Company’s consultant will perform a custom on-site assessment intended to recommend capital improvements and/or recommissioning measures. Following a Heavy Audit, the consultant will also recommend the appropriate path for the customer to pursue for any prescriptive, standard custom, and simplified analysis measures identified.

To assess projects for eligibility for the Commercial Benchmarking Service, the customer must submit an application with the following information:

- Identification of the project site and account information, including most recent utility bill
- A description of the facility and its energy-using systems

### **ThermWise® for Business Programs Energy Benchmarking**



## Custom Rebates, Projected Participation and Savings

The Company provides a custom rebate opportunity with the goal of obtaining verifiable, cost-effective, and long-term natural gas savings. The program is designed to provide rebates to those business customers who do not qualify through the prescriptive measures offered in the ThermWise Business Rebates Program and includes both simplified analysis rebates, as well as custom rebates. Program participants submit project proposals for a firm quantity of natural gas reduction through the installation of energy-efficiency measures after review and approval by Dominion Energy. Rebates paid to a third party will require a third-party release form. Projected participants and natural gas savings for 2023 can be found in Table 1. For further detail on custom rebates, rebate structure, and limitations see Section 2.12 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, 2023.

## 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 2023.