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# Energy Efficiency Program Proposal

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ThermWise® 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	350	2,450
Natural Gas Furnace $\geq 95\%$ AFUE	500	8,800
Natural Gas Furnace $\geq 97.5\%$ AFUE	50	1,055
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)	50	10,000
Natural Gas Boiler (hot water) 95%+ TE ( $\geq 300,000 < 2,500,000$ Btu/h)	50	15,250
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)	10	6,180

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 <u>&gt; 5 tons and ≤ 10 tons</u>	30	1,020
Advanced Rooftop Controls <u>&gt; 10 tons and ≤ 15 tons</u>	30	1,260
Advanced Rooftop Controls > 15 tons	10	760
Dual-Fuel Heating System	10	260
Boiler O2 Trim Controls	15	263
Boiler Linkagless Controls	5	269
<b>TOTAL Business Program prescriptive and custom rebates</b>	<b>1,958</b>	<b>151,681</b>

## 2022 New Measure Summaries

### Boiler Linkagless Controls

Linkageless controls are the first of two retrofit improvements to increase combustion efficiency on older boilers. Baseline boilers with linked controls have a single mechanical actuator that controls (“links”) both the fuel valve and the combustion air damper together. They are tuned to deliver the recommended 10% excess air (EA) at high fire conditions, but do not maintain this ideal EA ratio at 5 other firing conditions because the linked actuators cannot respond independently. Linkageless controls is a retrofit to install separate actuators on these two lines, allowing dynamic adjustment of air supply to the burner which enables higher combustion efficiency at a wider range of operating conditions.

### Boiler O2 Trim Controls

O2 trim control systems work in tandem with linkageless controls to optimize combustion efficiency in boilers. O2 trim control systems consist of an O2 sensor and a pressure gauge on the stack, which monitors flue gas excess air (EA). It feeds this information to a controller, which adjusts the fuel flow and combustion dampers to optimize combustion efficiency. Trim controllers can maintain tighter EA ratios across all firing conditions and are increasingly available for smaller boilers.

### 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.

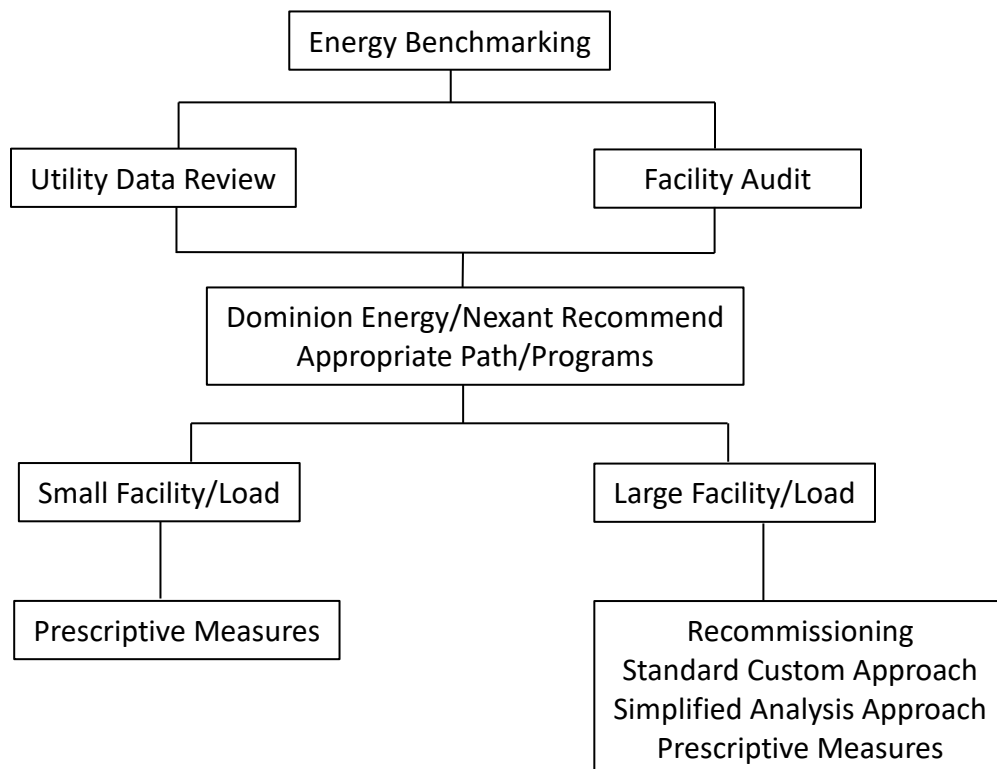
Small and medium commercial businesses will receive the "Lite Audit or Assessment". This audit will utilize a tablet-based tool preconfigured with prescriptive measures and other custom recommendations. The Company's consultant has already designed and effectively implemented similar tools for other 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 2022 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, 2022.

### 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 2022.