



SPENCER J. COX
Governor

DEIDRE HENDERSON
Lieutenant Governor

State of Utah

Department of Commerce Division of Public Utilities

MARGARET W. BUSSE
Executive Director

CHRIS PARKER
Director, Division of Public Utilities

Action Request Response

To: Public Service Commission of Utah

From: Utah Division of Public Utilities

Chris Parker, Director

Artie Powell, Manager

Brenda Salter, Utility Technical Consultant Supervisor

Shauna Benvegnu-Springer, Utility Technical Consultant

Date: March 15, 2022

Re: **Docket No(s). 22-057-01 and 20-057-20**, Division's Review of Dominion Energy's Energy Efficiency Report for Year Ending December 31, 2021.

Recommendation (Acknowledge)

The Division of Public Utilities (Division) provides these comments to the Public Service Commission of Utah (Commission) regarding Dominion Energy Utah's (DEU) Energy Efficiency year-end report for 2021. The Division recommends the Commission acknowledge the filing of the 2021 report.

Issue

On February 14, 2022, DEU filed its Energy Efficiency (EE) Report for the year ending December 31, 2021. On February 14, 2022, the Commission issued an Action Request to the Division requesting a review for compliance of the year ending December 31, 2021, and to make any recommendations by March 16, 2022.

Background

On October 23, 2020, DEU filed an application, Docket No. 20-057-20, seeking approval of the 2021-year budget for Energy Efficiency Programs and Market Transformation Initiative (MTI) in compliance with the Commission's orders in Docket No 05-057-T01 and Docket No. 09-057-16. DEU requested \$27.1 million for its EE and MTI programs. On January 25, 2021, the Commission issued an order authorizing DEU to continue offering GS rate customers EE programs and restart the MTI for 2021 with a budget of \$27.1 million effective January 1, 2021.

The Division commends DEU and the Advisory Group for their active participation and commitment to continue developing and promoting vital Energy Efficiency Programs, with the intent to promote the energy-saving measures to an even broader base of GS customers and urges all GS customers to participate in these programs whenever possible.

The purpose of this report is to provide the 2021 year-end actual results compared to the 2020 year-end actual results and the 2021 EE and MTI budget, as approved by the Commission.

Discussion

DEU administers eight separate EE programs designed to help customers improve the efficiency of their natural gas consumption. Six of the programs operate under the ThermWise® protocols that include:

- 1) The ThermWise® Appliance Rebates,
- 2) The ThermWise® Builder Rebates,
- 3) The ThermWise® Business Rebates,
- 4) The ThermWise® Weatherization,
- 5) The ThermWise® Home Energy Plan, and
- 6) The ThermWise® Energy Comparison Report

The remaining two programs are:

- 7) The Low-Income Efficiency Program, and

8) Market Transformation Initiative (MTI).

The Market Transformation Initiative helps educate natural gas customers on the benefits of reducing natural gas consumption on an ongoing basis. MTI utilizes media such as television commercials, outreach programs, home show tours, etc., to make the public aware of the programs. The ThermWise® Home Energy Plan and the MTI do not provide rebates. All the other programs issue rebates for participants. The 2021 Energy Efficiency budget of \$27.1 million increased by \$0.7 million from the 2020 budget of \$26.4 million. The increase was not attributable to one program. The programs contain multiple measures designed to help consumers be more efficient at consuming natural gas.

2021 THERMWISE® PROGRAM SUMMARY

Table 1 compares the 2020 and 2021 actual costs with the 2021 budget. It shows a total of \$25.0 million of expenses, or 92.5% of the \$27.1 million annual budget was spent.

TABLE 1 - Summary of Programs

DOMINION ENERGY UTAH
Energy Efficiency Report
As of December 31, 2021
Docket No. 20-057-20, 21-57-02, & 22-057-01

Line #	Program	PARTICIPANTS			COSTS			%	Dth Savings*			C/Dth
		Actual 2020	Actual 2021	Estimated 2021	Actual 2020	Actual 2021	Budget 2021	Act/Bgt 2021	Actual 2020	Actual 2021	Budget 2021	
1	ThermWise Appliance Rebates	13,969	13,114	16,846	\$ 3,943,306	4,296,595	\$ 4,855,850	88.5%	117,134	122,473	277,307	\$ 35.08
2	ThermWise Builder Rebates	30,963	19,322	21,625	9,075,737	7,906,644	7,792,260	101.5%	213,957	191,313	138,769	\$ 41.33
3	ThermWise Business Rebates	1,639	1,359	2,768	3,000,036	2,915,571	3,435,818	84.9%	126,113	81,509	180,899	\$ 35.77
4	ThermWise Home Energy Plan	1,879	1,722	2,240	377,967	364,320	498,467	73.1%	25,962	26,458	45,207	\$ 13.77
5	ThermWise Weatherization Rebates	36,793	21,273	30,243	9,966,225	7,543,060	7,812,879	96.5%	207,609	110,517	168,178	\$ 68.25
6	Low Income Efficiency Program	926	978	1,820	680,568	663,436	812,365	81.7%	9,257	9,614	29,583	\$ 69.01
7	Rebate Programs Total **	86,169	57,768	75,542	\$27,043,839	\$23,689,626	\$25,207,639	94.0%	700,032	541,884	839,943	\$ 43.72
8	Market Transformation	N/A	N/A	N/A	937,217	980,669	1,320,000	74.3%	N/A	N/A	N/A	
9	ThermWise Energy Comparison Report	266,600	226,000	226,000	554,643	493,875	530,000	93.2%	322,586	284,760	365,528	\$ 1.73
10	DSM Accruals ***				(1,465,072)	(135,237)						
11	Programs Total	352,769	283,768	301,542	27,070,627	25,028,933	27,057,639	92.5%	1,022,618	826,644	1,205,471	\$ 30.28
12	DSM Interest				(93,495)	13,627						
13	DSM Amortization				(26,805,440)	(24,500,335)						
14	DSM General Administration				-	-						
15	TOTALS				\$ 171,692	\$ 542,225						

*Savings reflects the net Dth deemed savings based on actual participants with an 80% net-to-gross ratio applied.

** Total participation reflects rebates and energy plan participants. Energy Comparison Report participants are shown only for the purpose of calculating cost effectiveness.

*** Accruals made during the period are shown only for the purpose of reconciling ending account balance.

The table also shows that the expenditures resulted in 826,644 Dth of deemed savings during the year. These savings include the savings from the ThermWise® Energy Comparison Report.

There were 283,768 program participants during the year compared to an estimated 301,542 participants. The number of participants that received rebates dropped to 57,768 in 2021 from 86,169 in 2020.

Table 1 on line 15 illustrates that a debit of \$542,225 is the net effect of the under collected expenses, primarily incentives paid to customers and accruals of costs, offset by the amortization of rates collected from customers and interest. The approved rates in 2021 for this program were designed to bring the account balance to zero as near as possible. The \$542,225 change in the account balance came close to this goal. As of December 31, 2021, the ending balance in the energy efficiency account was \$542,225 under collected, up from the 2020 ending balance of \$171,692.

THERMWISE® APPLIANCE PROGRAM

Table 2 summarizes the ThermWise® Appliance Program. This program rebated \$3.6 million (less administrative overhead of \$648,197), or 75% of the \$4.9 million budget. The 95% Efficient Furnace incentive dropped in participation with 5,286 participants, down from an estimated 8,000 participants. Rebates for the 95% Efficient Furnace provided the most dollars for 2021 at \$1.6 million. This rebate incentive spent 66.1% of its 2021 budget of \$2,400,000.¹ Due to the mix of measures chosen in 2021, the actual total weighted cost was \$35.08 per saved Dth, up from the 2020 actual weighted cost of \$33.66 per saved Dth. The 2020-2021 COVID pandemic continues to affect consumers' household purchases.

¹ Docket No. 20-057-20, Application for Approval of the 2021 Year Budget for Energy Efficiency Programs and Market Transformation Initiative, filed October 23, 2020

TABLE 2 - Appliance Rebates

DOMINION ENERGY UTAH
ThermWise Appliance Rebates
As of December 31, 2021
Docket No. 20-057-20, 21-57-02, & 22-057-01

Line#	Program	PARTICIPATION		COSTS		%	Dth Savings	
		Actual 2021	Estimated 2021	Actual 2021	Budget 2021	Act/Bgt 2021	Actual 2021	C/Dth 2021
1	95% Efficient Furnace	5,286	8,000	\$ 1,585,800	\$ 2,400,000	66.1%	49,773	\$ 31.86
2	98% Efficient Furnace	558	900	\$ 195,300	\$ 315,000	62.0%	6,183	\$ 31.59
3	Gas Water Heater - Tier 2	326	1,100	\$ 32,600	\$ 110,000	29.6%	746	\$ 43.70
4	Condensing Gas Water Heater	11	80	\$ 3,850	\$ 28,000	13.8%	76	\$ 50.66
5	Hybrid Gas Water Heater	8	40	\$ 2,800	\$ 14,000	20.0%	56	\$ 50.00
6	Boilers Tier 1	6	12	\$ 2,400	\$ 4,800	50.0%	90	\$ 26.67
7	Boilers Tier 2	155	150	\$ 93,000	\$ 90,000	103.3%	3,125	\$ 29.76
8	Solar Assisted Water Heater (domestic)	-	4	\$ -	\$ 3,000	0.0%	-	\$ -
9	Solar Assisted Water Heater (pool)	3	4	\$ 2,250	\$ 3,000	75.0%	165	\$ 13.64
10	Tankless Gas Water Heater (tier 2)	1,782	1,500	\$ 534,600	\$ 450,000	118.8%	13,358	\$ 40.02
11	Direct Vent Gas Fireplace	230	450	\$ 46,000	\$ 90,000	51.1%	1,987	\$ 23.15
12	Smart Thermostat (appliance)	3,098	4,000	\$ 154,900	\$ 200,000	77.5%	21,314	\$ 7.27
13	Boiler Reset Control (appliance)	2	5	\$ 200	\$ 500	40.0%	8	\$ 25.00
14	Combined Space and Hot Water (appliance)	16	30	\$ 12,000	\$ 22,500	53.3%	243	\$ 49.38
15	Smart Water Heater Controller (appliance)	10	50	\$ 500	\$ 2,500	20.0%	20	\$ 25.00
16	Dual Fuel Heating System	1,098	200	\$ 878,400	\$ 160,000	549.0%		\$ -
17	Energy Recover Ventilator	3	100	\$ 900	\$ 30,000	3.0%		\$ -
18	95% Efficient Furnace	143	150	\$ 42,900	\$ 45,000	95.3%	22,838	\$ 1.88
19	98% Efficient Furnace	21	4	\$ 7,350	\$ 1,400	525.0%	25	\$ 294.00
20	Gas Water Heater - Tier 2	-	4	\$ -	\$ 400	0.0%	1,007	\$ -
21	Solar Assisted Water Heater (pool)	-	1	\$ -	\$ 750	0.0%	175	\$ -
22	Condensing Gas Water Heater	105	-	\$ 36,750	\$ -	0.0%	-	\$ -
23	Boilers Tier 1	-	1	\$ -	\$ 400	0.0%	-	\$ -
24	Boilers Tier 2	-	1	\$ -	\$ 600	0.0%	454	\$ -
25	Direct Vent Gas Fireplace	-	4	\$ -	\$ 800	0.0%	-	\$ -
26	Smart Thermostat (existing multifamily)	240	50	\$ 12,000	\$ 2,500	480.0%	768	\$ 15.63
27	Dual Fuel Heating System	-	4	\$ -	\$ 1,800	0.0%		\$ -
28	Energy Recover Ventilator		1	\$ -	\$ 150	0.0%		\$ -
29	Tankless Gas Water Heater (tier 2)	13	1	\$ 3,900	\$ 300	1300.0%	62	\$ 62.90
30	Administrative & Overheads	N/A	N/A	\$ 648,197	\$ 878,450	73.8%	N/A	\$ -
31	Total	13,114	16,846	4,296,597	4,855,850	88.5%	122,473	\$ 35.08

*Savings reflects the net Dth deemed savings based on actual participants with an 80% net-to-gross ratio applied.

THERMWISE® BUILDER PROGRAM

The ThermWise® Builder Program is designed to offer specific rebates to builders who use energy-efficient construction techniques. The program is available to residential builders in the Company's Utah service territory. It includes rebates for installing natural gas energy-efficiency

TABLE 3 - Builder Rebates

DOMINION ENERGY UTAH
Builder Rebates Program
As of December 31, 2021
Docket No. 20-057-20, 21-57-02, & 22-057-01

Line#	Program	Participants		Costs		%	Dth Savings*	
		Actual	Estimated	Actual	Budget	Act/Bgt	Actual	C/Dth
		2021	2021	2021	2021	2021	2021	2021
1	Pay for Performance (builder)	7,588	3,000	\$ 4,212,880	\$ 2,100,000	201%	121,408	\$ 34.70
2	Energy Star 3.0 Bonus (builder)	826	800	\$ 41,300	\$ 580,000	7%	1,837	\$ 22.48
3	DOE Zero Energy Ready Bonus (builder)	-	100	\$ -	\$ 87,500	0%	-	\$ -
4	95% Efficient Furnace	1,738	4,200	\$ 495,450	\$ 1,260,000	39%	14,085	\$ 35.18
5	98% Efficient Furnace with ECM	417	40	\$ 145,950	\$ 14,000	1043%	4,053	\$ 36.01
6	.67 EF Storage Water Heater	54	1,800	\$ 5,400	\$ 180,000	3%	124	\$ 43.55
7	Tankless Water Heater Tier 2	192	1,500	\$ 57,600	\$ 450,000	13%	1,644	\$ 35.04
8	Condensing Gas Water Heater	15	65	\$ 5,250	\$ 22,750	23%	104	\$ 50.48
9	Hybrid Gas Water Heater	-	1	\$ -	\$ 350	0%	-	\$ -
10	Gas Boiler Rebates Paid - Tier 1	-	10	\$ -	\$ 4,000	0%	-	\$ -
11	Gas Boiler Rebates Paid - Tier 2	7	60	\$ 4,200	\$ 36,000	12%	90	\$ 46.67
12	Solar Assisted Water Heater - domestic	-	1	\$ -	\$ 750	0%	-	\$ -
13	Solar Assisted Water Heater - pool	-	1	\$ -	\$ 750	0%	-	\$ -
14	2X6 R-23 Walls	386	2,000	\$ 57,900	\$ 300,000	19%	1,668	\$ 34.71
15	R-5 Window	9	30	\$ 8,738	\$ 25,000	35%	81	\$ 107.88
16	Smart Thermostat (builder)	292	600	\$ 14,600	\$ 30,000	49%	1,004	\$ 14.54
17	Combined Space and Hot Water (builder)	-	3	\$ -	\$ 2,250	0%	-	\$ -
18	Smart Water Heater Controller (builder)	-	4	\$ -	\$ 200	0%	-	\$ -
19	Dual Fuel Heating System	6	400	\$ 4,800	\$ 320,000	0%	139	\$ 34.53
20	Energy Recovery Ventilator	-	200	\$ -	\$ 60,000	0%	-	\$ -
21	Pay for Performance - MF	2,024	1,500	\$ 1,207,471	\$ 600,000	201%	16,192	\$ 74.57
22	Energy Star 3.0 Bonus - MF	524	600	\$ 13,100	\$ 255,000	5%	4,666	\$ 2.81
23	DOE Zero Energy Ready Bonus - MF	65	30	\$ 3,250	\$ 15,750	21%	639	\$ 5.09
24	95% Efficient Furnace - MF	2,618	1,500	\$ 785,000	\$ 450,000	174%	15,917	\$ 49.32
25	98% Efficient Furnace - MF	116	25	\$ 40,600	\$ 8,750	464%	844	\$ 48.10
26	.67 EF Storage Water Heater - MF	954	1,700	\$ 95,400	\$ 170,000	56%	1,061	\$ 89.92
27	Tankless Water Heater Tier 2 - MF	768	600	\$ 230,400	\$ 180,000	128%	4,147	\$ 55.56
28	Condensing Gas Water Heater - MF	171	-	\$ 59,850	\$ -	0%	739	\$ 80.99
29	Hybrid Gas Water Heater - MF	39	4	\$ 13,650	\$ 1,400	975%	168	\$ 81.25
30	Boilers Tier 1 - MF	1	4	\$ 400	\$ 1,600	25%	7	\$ 57.14
31	Boilers Tier 2 - MF	-	12	\$ -	\$ 7,200	0%	-	\$ -
32	Solar Assisted Water Heater - domestic MF	-	4	\$ -	\$ 3,000	0%	-	\$ -
33	Solar Assisted Water Heater - pool MF	-	4	\$ -	\$ 3,000	0%	-	\$ -
34	R-5 Window	-	4	\$ -	\$ 10	0%	-	\$ -
35	Smart Thermostat (new multifamily)	512	800	\$ 25,600	\$ 40,000	64%	696	\$ 36.78
36	Combined Space and Hot Water (new multifamily)	-	15	\$ -	\$ 11,250	0%	-	\$ -
37	Dual Fuel Heating System (multi Family)	-	4	\$ -	\$ 1,800	0%	-	\$ -
38	Energy Recovery Ventilator (new Multifamily)	-	4	\$ -	\$ 600	0%	-	\$ -
39	Administrative & Overheads	N/A	N/A	\$ 377,855	\$ 569,350	66%	N/A	N/A
40	Total	19,322	21,625	7,906,644	7,792,260	101.5%	191,313	\$ 41.33

*Savings reflects the net Dth deemed savings based on actual participants with an 80% net-to-gross ratio applied.

As shown in Table 3, the Builder Program rebated 97% or \$7.5 million (less administrative overhead of \$377,855) of the 2021 budget of \$7.8 million. The 2021 rebates were considerably

lower than the 2020 rebates of \$8.5 million. Single-family Pay for Performance incentive maintains the most significant participation rate with 7,588 participants and \$4.2 million rebated. The Pay for Performance with MF (multi-family) came in second with 2,024 actual participants and redeemed rebates of \$1.2 million. The overspending of the 2021 Builder Rebate budget by \$114,384 is primarily attributed to incentives for single and multi-family construction. The 2022 budget addressed this issue by funding the measures based on recent experience. The Builder Program had actual total weighted cost measures of \$41.33 per saved Dths.

THERMWISE® BUSINESS PROGRAM

In the ThermWise® Business Program, over 64 prescriptive measures are available to commercial entities to improve energy efficiency. The Business Program spent 84.9% of its annual budget for the year. The 2021 actual average cost per deemed Dth was \$35.77 compared to the 2020 average actual cost of \$23.79 per Dth.

TABLE 4 - Business Rebates

DOMINION ENERGY UTAH
Business Rebates Program
As of December 31, 2021
Docket No. 20-057-20, 21-57-02, & 22-057-01

Line #	Program	Participants		Costs			Dth Savings	
		Actual 2021	Budget 2021	Actual 2021	Budget 2021	% of 2021	Actual 2021	C/Dth 2021
1	Business Custom	18	40	\$ 119,789	\$ 560,000	21.4%	8,111	\$ 14.77
2	95% Efficient Furnace	441	700	\$ 132,300	\$ 210,000	63.0%	4,152	\$ 31.86
3	98% Efficient Furnace	1	50	\$ 350	\$ 17,500	2.0%	11	\$ 31.82
4	Gas Storage Water Heater - Tier 2 <75kBtu .67	-	10	\$ -	\$ 1,000	0.0%	-	\$ -
5	Gas Storage Water Heater >75kBtu	75	150	\$ 33,625	\$ 90,000	37.4%	3,901	\$ 8.62
6	High Efficiency Gas Water Heater - Tankless <200kBT	9	50	\$ 3,389	\$ 20,000	16.9%	237	\$ 14.30
7	High Efficiency Gas Water Heater - Tankless >200kBT	12	30	\$ 11,254	\$ 30,600	36.8%	788	\$ 14.28
8	High Efficiency Gas Water Heater - Tankless >200kBT	28	20	\$ 62,370	\$ 30,600	203.8%	5,198	\$ 12.00
9	Condensing Gas Water Heater	-	4	\$ -	\$ 1,400	0.0%	-	\$ -
10	Hybrid Gas Water Heater	-	5	\$ -	\$ 1,750	0.0%	-	\$ -
11	Combined Space / Water Heater (business)	-	1	\$ -	\$ 450	0.0%	-	\$ -
12	Commercial Clothes Washer	1	5	\$ 75	\$ 375	20.0%	5	\$ 15.00
13	Boiler Reset Control	2	5	\$ 500	\$ 1,250	40.0%	119	\$ 4.20
14	Boiler Tune-up Tier 1	-	25	\$ -	\$ 2,500	0.0%	-	\$ -
15	Boiler Tune-up Tier 2	-	10	\$ -	\$ 2,000	0.0%	-	\$ -
16	Boiler Tune-up Tier 3	-	25	\$ -	\$ 7,500	0.0%	-	\$ -
17	Low Flow Pre-rinse Spray Valve	-	25	\$ -	\$ 800	0.0%	-	\$ -
18	Smart Thermostat (business)	277	350	\$ 23,436	\$ 24,500	95.7%	1,875	\$ -
19	Direct Contact Water Heater	-	1	\$ -	\$ 298	0.0%	-	\$ -

*Savings reflects the net Dth deemed savings based on actual participants with an 80% net-to-gross ratio applied.

As of December 31, 2021
Docket No. 20-057-01
Table 4 (continued)

Line #	Program	Participants		Costs			Dth Savings	
		Actual 2021	Budget 2021	Actual 2021	Budget 2021	% of Budget	Actual 2021	C/Dth 2021
20	Direct Fired Heater	7	5	\$ 8,654	\$ 6,000	144.2%	955	\$ 9.06
21	Boiler Hot Water < 300,000 Btu/h (business)	1	10	\$ 400	\$ 40,000	1.0%	21	\$ 19.05
22	Boiler Hot Water ≥ 300,000 < 2,500,000 (business)	33	60	\$ 211,959	\$ 243,750	87.0%	8,348	\$ 25.39
23	Boiler Hot Water ≥ 300,000 < 2,500,000 95% + (business)	39	15	\$ 237,885	\$ 65,625	362.5%	13,267	\$ 17.93
24	Boiler Hot Water ≥ 2,500,000 Btu/h (business)	7	10	\$ 84,435	\$ 97,500	86.6%	3,305	\$ 25.55
25	Boiler Hot Water ≥ 2,500,000 Btu/h 95% + (business)	14	5	\$ 131,250	\$ 52,500	250.0%	6,180	\$ 21.24
26	Boiler Steam <300,000 Btu/h (business)	-	1	\$ -	\$ 4,140	0.0%	-	\$ -
27	Boiler Steam (Except Natural Draft) ≥ 300,000 Btu/h (business)	3	5	\$ 14,694	\$ 54,030	27.2%	411	\$ 35.75
28	Boiler Steam (Natural Draft) ≥ 300,000 Btu/h (business)	1	10	\$ 2,860	\$ 108,060	2.6%	137	\$ 20.88
29	Gas Unit Heater NonCondensing	51	40	\$ 19,688	\$ 10,000	196.9%	695	\$ 28.33
30	Gas Unit Heater Condensing	1	5	1,560	8,100	19.3%	35	\$ 44.57
31	Green Certified New Buildings	5	10	45,567	50,000	91.1%	5,103	\$ 8.93
32	Infrared Heating System	44	150	18,950	112,500	16.8%	1,459	\$ 12.99
33	Modulating Infrared Heaters (NC or Replacing Non-IR)	-	10	-	10,875	0.0%	-	\$ -
34	Modulating Infrared Heaters (Replacing Non-IR) (business)	-	1	-	290	0.0%	-	\$ -
35	Condensing RTU's (business)	-	1	-	1,875	0.0%	-	\$ -
36	High Efficiency Gas Combo Oven	26	10	26,000	10,000	260.0%	838	\$ 31.03
37	High Efficiency Gas Combo Oven (Used)	-	1	-	500	0.0%	-	\$ -
38	Energy Star Gas Commercial Fryer	39	30	19,500	22,500	86.7%	1,260	\$ 15.48
39	Energy Star Gas Commercial Fryer (Used)	-	1	-	375	0.0%	-	\$ -
40	High Efficiency Gas Convection Oven	59	25	29,500	18,750	157.3%	1,661	\$ 17.76
41	High Efficiency Gas Convection Oven (Used)	-	1	-	375	0.0%	-	\$ -
42	High Efficiency Gas Griddle	1	5	300	1,500	20.0%	12	\$ 25.00
43	High Efficiency Gas Griddle (Used)	-	1	-	150	0.0%	-	\$ -
44	Energy Star Gas Steam Cooker	6	10	6,000	10,000	60.0%	424	\$ 14.15
45	Energy Star Gas Steam Cooker (Used)	-	1	-	500	0.0%	-	\$ -
46	Attic Insulation (retrofit)	6	25	20,022	28,000	71.5%	461	\$ 43.43
47	Wall Insulation (retrofit)	1	10	575	12,000	4.8%	14	\$ 41.07
48	Demand Control Ventilation Systems	4	10	14,100	10,000	141.0%	1,534	\$ 9.19
49	Demand Control Ventilation Systems (DCV) Packaged	84	400	164,800	160,000	103.0%	8,965	\$ 18.38
50	Pipe Insulation (Hot Water)	-	10	-	750	0.0%	-	\$ -
51	Pipe Insulation (Steam)	-	5	-	1,000	0.0%	-	\$ -
52	High Efficiency Charbroiler	1	5	1,000	5,000	20.0%	60	\$ 16.67
53	High Efficiency Charbroiler (Used)	-	1	-	500	0.0%	-	\$ -
54	Conveyor Oven	-	5	-	5,000	0.0%	-	\$ -
55	Conveyor Oven (Used)	-	1	-	500	0.0%	-	\$ -
56	Gas Dryer Moisture Sensor	-	1	-	25	0.0%	-	\$ -
57	Modulating Gas Dryer	-	5	-	375	0.0%	-	\$ -
58	Solar Assisted Water Heater- Pool- Business	-	1	-	750	0.0%	-	\$ -
59	Dual Fuel Heating System (business)	-	10	-	8,000	0.0%	-	\$ -
60	Advanced rooftop controls > 5 tons and < 10 tons	24	60	104,500	30,000	348.3%	653	\$ 160.03
61	Advanced rooftop controls > 10 tons and < 15 tons	17	30	43,550	19,500	223.3%	572	\$ 76.14
62	Advanced rooftop controls > 15 tons	11	10	42,400	8,000	530.0%	669	\$ 63.38
63	Prescriptive ERV	10	250	\$ 45,665	\$ 25,000	182.7%	73	\$ 625.55
64	Administrative & Overheads	N/A	N/A	1,232,669	1,189,000	103.7%	N/A	\$ -
65	Total	1,359	4,789	2,915,571	3,435,818	84.9%	81,509	\$ 35.77

*Savings reflects the net Dth deemed savings based on actual participants with an 80% net-to-gross ratio applied.

THERMWISE® HOME ENERGY PLAN PROGRAM

The ThermWise® Home Energy Plan Program allows customers to evaluate their current energy efficiency efforts, with suggestions on improving their efficiency. The home energy plans can either be an on-site audit conducted by a qualified DEU technician or a mail-in audit in which the participants answer questions and receive advice from DEU. This program continues to have benefits in addition to those seen in the data below. It introduces customers to the potential savings they may realize by implementing additional energy efficiency measures. Table 5 shows Dth savings in 2021 of 26,458 from 25,962 in 2020, a marginal increase. Again, the pandemic may have made consumers uneasy about having home energy plans completed or implemented due to costs and safety.

TABLE 5 - Home Energy Plans

DOMINION ENERGY UTAH
Home Energy Plans Program
As of December 31, 2021
Docket No. 20-057-20, 21-57-02, & 22-057-01

Line #	Program	Participants		Costs			Dth Savings	
		Actual 2021	Budget 2021	Actual 2021	Budget 2021	% of 2021	Dth 2021	C/Dth 2021
1	Efficiency Measures	1,722	2,240	\$ 15,888	\$ 38,467	41.3%	26,458	\$ 0.60
2	Administrative & Ove	N/A	-	348,432	460,000	75.7%	N/A	
3	Total	1,722	2,240	\$ 364,320	\$ 498,467	73.1%	26,458	\$ 13.77

*Savings reflects the net Dth deemed savings based on actual participants with an 80% net-to-gross ratio applied.

**Participants, Plans Completed and Efficiency Items are based on reported numbers from the ThermWise Home Energy Experts.

THERMWISE® WEATHERIZATION PROGRAM

Table 6 summarizes the results for the ThermWise® Weatherization Program. Weatherization projects were the second-highest rebated measures of the ThermWise® Energy Efficiency Programs, even though participation and rebates decreased by 42% and 24%, respectively, from 2020 levels.

The Weatherization Program reached 96.5% of budgeted expenditures, lower than the 2020 Weatherization Program, which reached 124.9% of budgeted costs. The primary drivers of the program were Attic Insulation Tier 1 and the Duct Sealing/Air Sealing at \$1.7 million and \$4.1

million, respectively, nearly 76% of the overall Weatherization Rebate program. Attic Insulation Tier 1 had 7,669 participants and spent \$1.7 million, making the incentive the most extensive participating program and second-largest rebates. The International Center for Appropriate and Sustainable Technology (ICAST) pilot program had 1,879 participants and expensed \$358,629. Dominion Energy hired ICAST to provide a custom incentive program to achieve “deep retrofits” for multifamily (MF) properties. The Division recommends the Company discuss the results of this program and the future of the program at an Advisory Group meeting.

TABLE 6 - Weatherization Rebates

DOMINION ENERGY UTAH
Weatherization Rebates Program
As of December 31, 2021
Docket No. 20-057-20, 21-57-02, & 22-057-01

Line #	Program	Participants		Costs			Dth Savings	
		Actual 2021	Budget 2021	Actual 2021	Budget 2021	% of Budget	Actual 2021	C/Dth 2021
1	Attic Insulation Tier 1 - .25 per sq. ft	7,669	12,900	\$ 1,706,191	\$ 1,935,000	88.2%	28,335	\$ 60.21
2	Attic Insulation Tier 2	2,678	5,300	\$ 175,990	\$ 293,090	60.0%	2,550	\$ 69.02
3	Floor Insulation	56	185	\$ 9,213	\$ 14,356	64.2%	251	\$ 36.71
4	Wall Insulation	294	780	\$ 86,126	\$ 119,340	72.2%	1,217	\$ 70.77
5	R-5 Windows	598	1,500	\$ 299,754	\$ 693,750	43.2%	6,695	\$ 44.77
6	Duct Sealing & Insulation	7,598	9,000	\$ 4,051,203	\$ 3,933,000	103.0%	46,409	\$ 87.29
7	Air Sealing	458	400	\$ 17,058	\$ 120,960	14.1%	721	\$ 23.66
8	Pipe Insulation (weatherization)	-	100	\$ -	\$ 250	0.0%	-	\$ -
9	ICAST pilot	1,879	-	\$ 358,629	\$ -	0.0%	23,487	\$ 15.27
10	Attic Insulation Tier 1 (multifamily) - .25 per sq. ft	20	24	\$ 2,151	\$ 2,760	77.9%	36	\$ 59.75
11	Attic Insulation (multifamily) Tier 2	10	24	\$ 602	\$ 1,327	45.4%	9	\$ 66.89
12	Floor Insulation (multifamily)	-	10	\$ -	\$ 364	0.0%	-	\$ -
13	Wall Insulation (multifamily)	8	10	\$ 1,696	\$ 1,020	166.3%	24	\$ 70.67
14	R-5 Windows (multifamily)	5	5	\$ 35,064	\$ 1,150	3049.0%	783	\$ 44.78
15	Duct Sealing & Insulation (multifamily)	-	5	\$ -	\$ 1,512	0.0%	-	\$ -
16	Administrative & Overheads	N/A	N/A	\$ 799,383	\$ 695,000	115.0%	N/A	\$ -
17	Total	21,273	30,243	7,543,060	7,812,879	96.5%	110,517	\$ 68.25
*Savings reflects the net Dth deemed savings based on actual participants with an 80% net-to-gross ratio applied.								
*Savings reflects the net Dth deemed savings based on actual participants with an 80% net-to-gross ratio applied.							\$	-

The 2021 actual total weighted cost for these measures is \$68.25 per saved Dth, which increased from \$48.00 actual total weighted price per Dth in 2020.

THERMWISE® MARKET TRANSFORMATION PROGRAM

Table 7 shows the ThermWise® MTI program costs were 74.3% of the expected 2021 levels. Costs increased slightly from \$937,217 in 2020 to \$980,669 in 2021. The budget for the MTI was underspent by \$339,331. Again, the pandemic placed restrictions on the community, and the Company couldn't participate in as many projects as planned.

TABLE 7 - Market Initiative

DOMINION ENERGY UTAH
Market Transformation
As of December 31, 2021
Docket No. 20-057-20, 21-57-02, & 22-057-01

Line #	Program	Participants		Costs			Dth Savings	
		Actual 2021	Budget 2021	Actual 2021	Budget 2021	% of Budget	Actual 2021	Average Weight
1	Market Transformation Total	N/A	N/A	\$ 980,669	\$ 1,320,000	74.3%	N/A	N/A

THERMWISE® ENERGY COMPARISON REPORT

Table 8 shows the ThermWise® Energy Comparison Report cost of \$493,875, representing 93.2% of the expected 2021 level of \$530,000. This was slightly less than the 2020 amount of \$554,643.

TABLE 8 - Energy Reports

DOMINION ENERGY UTAH
Energy Comparison
As of December 31, 2021
Docket No. 20-057-20, 21-57-02, & 22-057-01

Line #	Program	Participants		Costs			Dth Savings	
		Actual 2021	Budget 2021	Actual 2021	Budget 2021	% of Budget	Actual 2021	C/Dth 2021
1	Energy Comparison Report Total	226,000	226,000	\$ 493,875	\$ 530,000	93.2%	284,760	\$ 1.73

The current distribution of the energy comparison reports is to approximately 226,000 participants, down from 266,600 customers in 2020. The information is available to customers via opt-in and opt-out programs. In reviewing 2021 deemed Dth savings of 284,760, the total actual weighted cost of \$1.73 per saved Dth is up from \$1.72 in 2020.

THERMWISE® LOW-INCOME EFFICIENCY PROGRAM

TABLE 9 - Low Income

DOMINION ENERGY UTAH
Low Income Efficiency
As of December 31, 2021
Docket No. 20-057-20, 21-57-02, & 22-057-01

Line #	Program	Participants		Costs			Dth Savings	
		Actual 2021	Budget 2021	Actual 2021	Budget 2021	% of Budget	Actual 2021	C/Dth 2021
1	95% Efficient Furnace	117	275	35,100	\$ 82,500	42.5%	1,377	\$ 25.49
2	98% Efficient Furnace	1	4	350	\$ 1,400	25.0%	14	\$ 25.00
3	Boilers Tier 2	3	-	1,800	\$ -	0.0%	76	\$ 23.68
4	Gas Water Heater - Tier 2	2	38	200	\$ 3,800	5.3%	8	\$ 25.00
5	Water Heater - Storage Condensing (Energy Star)	6	-	2,100	\$ -	0.0%	52	\$ 40.38
6	Water Heater - Hybrid	1	-	350	\$ -	0.0%	9	\$ 38.89
7	Attic Insulation - Tier 1	159	210	25,934	\$ 64,680	40.1%	550	\$ 47.15
8	Attic Insulation Tier 2	63	110	887	\$ 8,470	10.5%	16	\$ 55.44
9	Floor Insulation	6	38	750	\$ 8,094	9.3%	26	
10	Wall Insulation	63	30	9,944	\$ 8,852	112.3%	175	\$ 56.82
11	Duct Sealing & Insulation	2	40	865	\$ 16,769	5.2%	32	\$ -
12	Air Sealing	157	270	65,939	\$ 81,050	81.4%	976	
13	Tank Less Gas Water Heater - Tier 2 (low income)	-	5	-	\$ 1,750	0.0%	-	\$ -
14	Smart Thermostat (low income)	156	200	7,800	\$ 10,000	78.0%	1,342	\$ 5.81
15	Low Income Furnace Replacement	242	600	\$ 500,000	\$ 500,000	100.0%	4,961	\$ 100.79
16	Administrative & Overheads	N/A	N/A	11,417	\$ 25,000	45.7%	N/A	
17	Total	978	1,820	\$ 663,436	\$ 812,365	81.7%	9,614	\$ 69.01

**Savings reflects the net Dth deemed savings based on actual participants with an 80% net-to-gross ratio applied.*

Income Efficiency Tariff paragraph allows approved non-profit or governmental agencies to apply for rebates under the ThermWise® Programs. This enables eligible agencies to be refunded to complete additional final weatherization measures for their work. The Utah Department of Workforce Services' Housing and Community Development Division (HCD) currently qualifies under this provision. HCD reports its activity quarterly and includes the saved Dths due to its efforts as part of the report filed by the Company on the Energy Efficiency Program results.

Table 9 shows the results for the ThermWise® Low Income Efficiency Program. The table points out that 81.7% of the total budget was spent. The 2021 total weighted cost for the measures implemented was \$69.01 per saved Dth. The program increased its performance from the 2020 total weighted cost for the measures implemented of \$73.52 per saved Dth.

Conclusion

The Division acknowledges the success of the Energy Efficiency Programs initiated by Dominion Energy as they benefit all ratepayers by reducing natural gas usage levels. The Division recommends the Commission recognize the EE Program report for the year ending December 31, 2021. Dominion and the Advisory Group may wish to address trends in various programs and their implications for future budgeting and schedules.

cc: Michael Orton, Dominion Energy Utah
Michele Beck, Office of Consumer Services