



State of Utah
Department of Commerce
Division of Public Utilities

MARGARET W. BUSSE
Executive Director

CHRIS PARKER
Director, Division of Public Utilities

SPENCER J. COX
Governor

DEIDRE HENDERSON
Lieutenant Governor

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 Benvegna-Springer, Utility Technical Consultant

Date: March 15, 2021

Re: **Docket Nos. 19-057-26, 20-057-01 and 21-057-02**, Division's Review of Dominion Energy's Energy Efficiency Report for Year Ending December 31, 2020.

Recommendation (Acknowledge)

The Division of Public Utilities (Division) provides these comments to the Public Service Commission (Commission) regarding Dominion Energy Utah's (DEU) Energy Efficiency year-end report for 2020. The Division recommends the Commission acknowledge the filing of the 2020 report.

Issue

On February 12, 2021, DEU filed its Energy Efficiency Report for the year ending December 31, 2020. On February 12, 2021, the Commission issued an Action Request to the Division requesting a review for compliance of the year ending December 31, 2020 and to make any recommendations by March 15, 2021.

Background

On October 16, 2019, DEU filed an application, Docket No. 19-057-26, seeking approval of the 2020 year budget for Energy Efficiency (EE) 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 \$26.426 million for its EE and MTI programs. On December 13, 2019, the Commission issued an order authorizing DEU to continue to offer to GS rate customers EE programs and continuation of the MTI for 2020 with a budget of \$26.426 million effective January 1, 2020.

The Division commends DEU and the Advisory Group for their active participation and commitment to continue to develop and promote strong 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 2020 year end actual results compared to the 2019 actual results and the 2020 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.

The Market Transformation Initiative helps educate natural gas customers on the benefits of reducing the consumption of natural gas on an ongoing basis. The ThermWise Home Energy Plan and the MTI do not provide rebates. All the other programs issue rebates for participants. The 2020 Energy Efficiency budget of \$26.4 million was an increase of \$0.9 million from the 2019 budget of \$25.5 million. The increase was not attributable to one particular program. The programs contain multiple measures designed to help consumers be more efficient at their consumption of natural gas.

2020 THERMWISE PROGRAM SUMMARY

Table 1 below compares the 2019 and 2020 actual costs of the programs with the 2020 budget. Table 1 shows a total of \$27.1 million, or 102.4% of the \$26.4 million annual budget was spent. The table also shows that the expenditures resulted in 1,022,618 Dth of deemed savings during the year. These savings include the deemed savings from the ThermWise Energy Comparison Report. There were 352,769 program participants during the year compared to an estimated 355,076 participants. The number of participants that received rebates increased to 86,169 in 2020 from 79,418 in 2019.

Of the five economic tests that are useful in understanding program effectiveness, the Utility Cost Test (UCT) is recommended by the Commission as the threshold test in determining program prudence. Through informal requests, the Company provided the benefit cost ratios for the 2020 program year. The projected UCT for DEU's 2020 Energy Efficiency Program was 1.86.

As reported in the annual energy efficiency report, a debit of \$171,692 is the net effect of the expenses incurred, primarily incentives paid to customers and accruals of expenses, offset by the amortization of rates collected from customers and interest. The rates that were approved in

2020 for this program were designed to bring the account balance to zero as near as possible. The \$171,692 is the change in the account balance to help accomplish this goal. As of December 31, 2020, the ending balance in the energy efficiency account was \$205,624.42.

DOMINION ENERGY UTAH
Energy Efficiency Report
As of December 31, 2020
Docket No. 20-057-01
Table 1

Line #	Program	PARTICIPANTS			COSTS			%	Dth Savings*			UTC B/C
		Actual	2020	Estimated	Actual	Budget	2020	Act/Bgt	Actual	Actual	Budget	Ratio
		2019	2020	2020	2019	2020	2020	2020	2019	2020	Est 2020	2020
1	ThermWise Appliance Rebates	16,367	13,969	30,587	\$ 4,181,678	\$ 3,943,306	\$ 6,172,929	63.9%	132,954	117,134	277,307	1.76
2	ThermWise Builder Rebates	30,486	30,963	18,423	6,120,422	9,075,737	5,830,063	155.7%	173,390	213,957	138,769	1.94
3	ThermWise Business Rebates	2,217	1,639	2,778	2,674,073	3,000,036	3,109,198	96.5%	108,589	126,113	180,899	2.38
4	ThermWise Home Energy Plan	2,337	1,879	2,240	402,747	377,967	574,812	65.8%	33,970	25,962	45,207	2.04
5	ThermWise Weatherization Rebates	26,786	36,793	31,943	8,183,650	9,966,225	7,982,079	124.9%	135,079	207,609	168,178	1.80
8	Low Income Efficiency Program	1,225	926	2,505	713,724	680,568	867,270	78.5%	12,667	9,257	29,583	3.53
9	Rebate Programs Total **	79,418	86,169	88,476	\$22,276,293	\$27,043,839	\$24,536,351	110.2%	596,650	700,032	839,943	1.86
6	Market Transformation	N/A	N/A	N/A	852,478	937,217	1,320,000	71.0%	N/A	N/A	N/A	N/A
7	ThermWise Energy Comparison Repo	224,400	266,600	266,600	452,026	554,643	570,000	97.3%	363,528	322,586	365,528	1.94
12	DSM Accruals ***				1,533,786	(1,465,072)						
9	Programs Total	303,818	352,769	355,076	25,114,583	27,070,627	26,426,351	102.4%	960,178	1,022,618	1,205,471	1.86
10	DSM Interest				(20,771)	(93,495)						
11	DSM Amortization				(27,994,304)	(26,805,440)			\$ 26.16	\$ 26.47		
13	DSM General Administration				-	-						
14	TOTALS				\$ (2,900,492)	\$ 171,692						

*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.

THERMWISE APPLIANCE PROGRAM

Table 2 summarizes the ThermWise Appliance Program. This program rebated \$3.2 million (less administrative overhead of \$735,806), or 52% of the \$6.2 million budget. The Smart Thermostat (appliance) incentive had dropped in participation with 4,103 participants, down from 6,097 participants in 2019. Rebates for the 95% Efficient Furnace with ECM rebated the most dollars for 2020 of \$2 million. This rebate incentive spent 66.1% of its 2020 budget of \$3,000,000.¹ Due to the mix of measures chosen in 2020, the actual total weighted cost was \$33.66 per saved Dth, which was up from the 2019 actual total weighted cost of \$31.45 per saved Dth. The 2020 COVID pandemic appears to have affected consumers' household purchases.

¹ Docket No. 19-057-26, Application for Approval of the 2020 Year Budget for Energy Efficiency Programs and Market Transformation Initiative, filed October 16, 2019.

DOMINION ENERGY UTAH
ThermWise Appliance Rebates
As of December 31, 2020
Docket No. 20-057-01
Table 2

Line#	Program	PARTICIPATION		COSTS		%	Dth Savings	
		Actual 2020	Estimated 2020	Actual 2020	Budget 2020	Act/Bgt 2020	Actual 2020	C/Dth 2020
1	95% Efficient Furnace	6,366	10,000	\$ 1,982,950	\$ 3,000,000	66.1%	59,942	\$ 33.08
2	98% Efficient Furnace	694	950	\$ 250,550	\$ 332,500	75.4%	7,690	\$ 32.58
3	Gas Water Heater - Tier 2	428	1,000	\$ 42,800	\$ 100,000	42.8%	979	\$ 43.71
4	Condensing Gas Water Heater	33	160	\$ 11,550	\$ 56,000	20.6%	229	\$ 50.40
5	Hybrid Gas Water Heater	13	36	\$ 4,550	\$ 12,600	36.1%	90	\$ 50.40
6	Boilers Tier 1	14	22	\$ 5,600	\$ 8,800	63.6%	209	\$ 26.74
7	Boilers Tier 2	177	115	\$ 106,200	\$ 69,000	153.9%	3,568	\$ 29.76
8	Solar Assisted Water Heater (domestic)	-	3	\$ -	\$ 2,250	0.0%	-	\$ -
9	Solar Assisted Water Heater (pool)	4	3	\$ 3,000	\$ 2,250	133.3%	220	\$ 13.61
10	Tankless Gas Water Heater (tier 2)	1,545	1,500	\$ 463,500	\$ 450,000	103.0%	11,581	\$ 40.02
11	Direct Vent Gas Fireplace	330	1,000	\$ 66,000	\$ 200,000	33.0%	2,851	\$ 23.15
12	Smart Thermostat (appliance)	4,103	15,000	\$ 205,150	\$ 750,000	27.4%	28,229	\$ 7.27
13	Boiler Reset Control (appliance)	3	5	\$ 300	\$ 500	60.0%	13	\$ 23.15
14	Combined Space and Hot Water (appliance)	32	24	\$ 24,000	\$ 18,000	133.3%	486	\$ 49.34
15	Smart Water Heater Controller (appliance)	13	200	\$ 650	\$ 10,000	6.5%	26	\$ 25.00
16	95% Efficient Furnace	95	500	\$ 28,600	\$ 150,000	19.1%	669	\$ 42.76
17	98% Efficient Furnace	1	5	\$ 350	\$ 1,750	20.0%	8	\$ 42.07
18	Gas Water Heater - Tier 2	50	5	\$ 5,000	\$ 500	1000.0%	114	\$ 43.71
19	Solar Assisted Water Heater (pool)	-	1	\$ -	\$ 750	0.0%	-	\$ -
20	Hybrid Gas Water Heater	20	-	\$ 7,000	\$ -	0.0%	86	\$ 81.02
21	Boilers Tier 1	1	1	\$ 400	\$ 400	100.0%	10	\$ 41.39
22	Boilers Tier 2	-	1	\$ -	\$ 600	0.0%	-	\$ -
23	Direct Vent Gas Fireplace	-	5	\$ -	\$ 1,000	0.0%	-	\$ -
24	Smart Thermostat (existing multifamily)	59	50	\$ 2,950	\$ 2,500	118.0%	189	\$ 15.63
25	Tankless Gas Water Heater (tier 2)	(12)	1	\$ (3,600)	\$ 300	-1200.0%	(58)	\$ 62.50
26	Administrative & Overheads	N/A	N/A	\$ 735,806	\$ 1,003,229	73.3%	N/A	\$ -
31	Total	13,969	30,587	\$ 3,943,306	\$ 6,172,929	63.9%	117,134	\$ 33.66

*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 and includes rebates for installing natural gas energy-efficiency measures in newly constructed single and multifamily residences receiving service on the GS rate schedule.

As shown in Table 3, the Builder Program rebated 146%, or \$8.5 million (less administrative overhead of \$546,176) of the 2020 budget of \$5.8 million. The 2020 rebates were considerably higher compared to 2019 rebates of \$5.7 million.

The 95% High-Efficiency Gas Furnace incentive, for single family, maintain the greatest participation rate with 8,951 participants, as well as \$2.4 million dollars rebated. The 95% Efficient Furnace with MF (multi-family) incentive came in second with 4,358 actual participants and redeemed rebates of \$1.4 million. The overspending of the 2020 Builder Rebate budget by \$3.2 million is largely attributed to spending of the multi-family construction incentives of \$2,186,723 with a budget of \$900,000 (see lines 25 and 28, Table 3). The 2021 budget addressed this issue by funding the measures based on recent experience. The Builder Program had actual total weighted cost measures of \$42.42 per saved Dth, which is higher than the actual weighted cost of \$35.30 per saved Dth in 2019.

DOMINION ENERGY UTAH
Builder Rebates Program
As of December 31, 2020
Docket No. 20-057-01
Table 3

Line#	Program	Participants		Costs		%	Dth Savings*	
		Actual	Estimated	Actual	Budget	Act/Bgt	Actual	C/Dth
		2020	2020	2020	2020	2020	2020	2020
1	HERS Index 62 or lower (builder)	759	-	\$ 75,900	\$ -	0%	3,157	\$ 24.04
2	HERS Index 55 or lower (builder)	1,196	-	\$ 239,200	\$ -	0%	9,951	\$ 24.04
3	HERS Index 48 or lower (builder)	156	-	\$ 46,800	\$ -	0%	1,947	\$ 24.04
4	Pay for Performance (builder)	2,417	2,400	\$ 1,812,585	\$ 1,440,000	126%	38,672	\$ 46.87
5	Energy Star 3.0 Bonus (builder)	648	600	\$ 32,400	\$ 390,000	8%	1,441	\$ 22.48
6	DOE Zero Energy Ready Bonus (builder)	-	50	\$ -	\$ 35,000	0%	-	-
7	95% Efficient Furnace	8,951	4,000	\$ 2,367,787	\$ 1,200,000	197%	72,539	\$ 32.64
8	98% Efficient Furnace with ECM	28	40	\$ 3,725	\$ 14,000	27%	272	\$ 13.69
9	.67 EF Storage Water Heater	717	1,000	\$ 71,700	\$ 100,000	72%	1,640	\$ 43.71
10	Tankless Water Heater Tier 2	1,101	750	\$ 330,400	\$ 225,000	147%	9,425	\$ 35.06
11	Condensing Gas Water Heater	45	65	\$ 15,750	\$ 22,750	69%	312	\$ 50.40
12	Hybrid Gas Water Heater	1	1	\$ 350	\$ 350	100%	7	\$ 50.40
13	Gas Boiler Rebates Paid - Tier 1	2	10	\$ 800	\$ 4,000	20%	14	-
14	Gas Boiler Rebates Paid - Tier 2	21	60	\$ 12,600	\$ 36,000	35%	271	\$ 46.55
15	Solar Assisted Water Heater - domestic	-	1	\$ -	\$ 750	0%	-	-
16	Solar Assisted Water Heater - pool	-	1	\$ -	\$ 750	0%	-	-
17	2X6 R-23 Walls	2,504	2,000	\$ 315,353	\$ 300,000	105%	10,817	\$ 29.15
18	R-5 Window	77	30	\$ 7,763	\$ 25,000	31%	72	\$ 107.76
19	Smart Thermostat (builder)	434	600	\$ 21,700	\$ 30,000	72%	1,493	\$ 14.53
20	Combined Space and Hot Water (builder)	2	3	\$ 1,500	\$ 2,250	67%	29	\$ 51.23
21	Smart Water Heater Controller (builder)	1	5	\$ 50	\$ 250	20%	2	\$ 25.00
22	HERS Index 62 or lower - MF	461	-	\$ 23,050	\$ -	0%	848	\$ 27.17
23	HERS Index 55 or lower - MF	1,393	-	\$ 139,300	\$ -	0%	5,126	\$ 27.17
24	HERS Index 48 or lower - MF	780	-	\$ 117,000	\$ -	0%	4,306	\$ 27.17
25	Pay for Performance - MF	977	1,500	\$ 800,073	\$ 450,000	178%	7,816	\$ 102.36
26	Energy Star 3.0 Bonus - MF	830	600	\$ 20,750	\$ 195,000	11%	7,390	\$ 2.81
27	DOE Zero Energy Ready Bonus - MF	-	30	\$ -	\$ 10,500	0%	-	\$ -
28	95% Efficient Furnace - MF	4,358	1,500	\$ 1,386,650	\$ 450,000	308%	26,497	\$ 52.33
29	98% Efficient Furnace - MF	-	25	\$ -	\$ 8,750	0%	-	\$ -
30	.67 EF Storage Water Heater - MF	975	1,700	\$ 97,500	\$ 170,000	57%	1,084	-
31	Tankless Water Heater Tier 2 - MF	768	600	\$ 230,400	\$ 180,000	128%	4,147	\$ 55.56
32	Condensing Gas Water Heater - MF	953	-	\$ 333,550	\$ -	0%	4,117	\$ 81.02
33	Hybrid Gas Water Heater - MF	30	5	\$ 10,500	\$ 1,750	600%	130	\$ 81.02
34	Boilers Tier 1 - MF	-	5	\$ -	\$ 2,000	0%	-	-
35	Boilers Tier 2 - MF	1	12	\$ 600	\$ 7,200	8%	13	\$ 46.55
36	Solar Assisted Water Heater - domestic MF	-	5	\$ -	\$ 3,750	0%	-	-
37	Solar Assisted Water Heater - pool MF	-	5	\$ -	\$ 3,750	0%	-	-
38	R-5 Window	-	5	\$ -	\$ 13	0%	-	-
39	Smart Thermostat (new multifamily)	176	800	\$ 8,800	\$ 40,000	22%	239	\$ 36.76
40	Combined Space and Hot Water (new multifamily)	-	15	\$ -	\$ 11,250	0%	-	-
41	Energy Star Highrise (new multifamily)	201	-	\$ 5,025	\$ -	0%	182	\$ 27.65
42	Administrative & Overheads	N/A	N/A	\$ 546,176	\$ 470,000	116%	N/A	-
43	Total	30,963	18,423	9,075,737	5,830,063	155.7%	213,957	\$ 42.42

THERMWISE BUSINESS PROGRAM

In the ThermWise Business Program, there are over 57 prescriptive measures available to commercial entities to improve their energy efficiency. Table 4 provides the detail of those measures. There were 21 of 60 measures that had \$10,000 or more of rebate incentive costs. The rebate expense of these 21 measures is \$1.9 million, which accounts for 64% of the costs of the program. For the year, the Business Program spent 96.5% of its annual budget. The 2020 actual cost per deemed Dth was \$23.79 compared to the 2019 actual cost of \$24.63.

DOMINION ENERGY UTAH
Business Rebates Program
As of December 31, 2020
Docket No. 20-057-01
Table 4

Line #	Program	Participants		Costs			Dth Savings	
		Actual 2020	Budget 2020	Actual 2020	Budget 2020	% of Budget	Actual 2020	C/Dth 2020
1	Business Custom	52	20	\$ 226,059	\$ 280,000	80.7%	35,676	\$ 6.34
2	95% Efficient Furnace	490	700	\$ 149,500	\$ 210,000	71.2%	4,614	\$ 32.40
3	98% Efficient Furnace	-	50	\$ -	\$ 17,500	0.0%	-	\$ -
4	Gas Storage Water Heater - Tier 2 <75kBtu .67	-	10	\$ -	\$ 1,000	0.0%	-	\$ -
5	Gas Storage Water Heater >75kBtu	89	150	\$ 49,797	\$ 90,000	55.3%	5,776	\$ 8.62
6	High Efficiency Gas Water Heater - Tankless <200kBT	22	50	\$ 10,394	\$ 20,000	52.0%	728	\$ 14.29
7	High Efficiency Gas Water Heater - Tankless >200kBT	38	40	\$ 68,065	\$ 51,000	133.5%	5,305	\$ 12.83
8	Condensing Gas Water Heater	-	4	\$ -	\$ 1,400	0.0%	-	\$ -
9	Hybrid Gas Water Heater	-	5	\$ -	\$ 1,750	0.0%	-	\$ -
10	Combined Space / Water Heater (business)	-	1	\$ -	\$ 450	0.0%	-	\$ -
11	Commercial Clothes Washer	-	10	\$ -	\$ 750	0.0%	-	\$ -
12	Boiler Reset Control	4	10	\$ 1,000	\$ 2,500	40.0%	237	\$ 4.22
13	Boiler Tune-up Tier 1	3	25	\$ 300	\$ 2,500	12.0%	47	\$ 6.38
14	Boiler Tune-up Tier 2	-	10	\$ -	\$ 2,000	0.0%	-	\$ -
15	Boiler Tune-up Tier 3	-	40	\$ -	\$ 12,000	0.0%	-	\$ -
16	Low Flow Pre-rinse Spray Valve	-	250	\$ -	\$ 8,000	0.0%	-	\$ -
17	Smart Thermostat (business)	343	500	\$ 28,941	\$ 35,000	82.7%	2,315	
18	Direct Contact Water Heater	-	1	\$ -	\$ 298	0.0%	-	\$ -
19	Direct Fired Heater	7	5	\$ 19,286	\$ 6,000	321.4%	2,129	
20	High Efficiency Boiler Hot Water Tier 1	2	-	\$ 1,196	\$ -	0.0%	86	\$ 13.92
21	Boiler Hot Water < 300,000 Btu/h (business)	2	25	\$ 968	\$ 100,000	1.0%	50	\$ 19.23
22	Boiler Hot Water ≥ 300,000 < 2,500,000 (business)	22	40	\$ 160,742	\$ 162,500	98.9%	6,331	\$ 25.39
23	High Efficiency Boiler Hot Water Tier 2	56		\$ 256,542	\$ -	0.0%	12,630	
24	Boiler Hot Water ≥ 300,000 < 2,500,000 95% + (business)	49	15	\$ 319,704	\$ 65,625	487.2%	17,830	
25	Boiler Hot Water ≥ 2,500,000 Btu/h (business)	-	15	\$ -	\$ 146,250	0.0%	-	\$ -
26	Boiler Hot Water ≥ 2,500,000 Btu/h 95% + (business)	8	10	\$ 104,993	\$ 105,000	100.0%	4,944	
27	Boiler Steam <300,000 Btu/h (business)	-	1	\$ -	\$ 4,140	0.0%	-	\$ -
28	Boiler Steam (Except Natural Draft) ≥ 300,000 Btu/h (business)	3	10	\$ 15,948	\$ 108,060	14.8%	447	
29	Boiler Steam (Natural Draft) ≥ 300,000 Btu/h (business)	3	10	\$ 17,322	\$ 108,060	16.0%	831	\$ 20.83
30	Gas Unit Heater NonCondensing	43	5	\$ 14,350	\$ 1,250	1148.0%	507	\$ 28.32

DOMINION ENERGY UTAH
Business Rebates Program
As of December 31, 2019
Docket No. 20-057-01
Table 4 (continued)

Line #	Program	Participants		Costs			Dth Savings	
		Actual 2020	Budget 2020	Actual 2020	Budget 2020	% of Budget	Actual 2020	C/Dth 2020
31	Gas Unit Heater Condensing	3	10	4,680	16,200	28.9%	106	\$ 44.21
32	Green Certified New Buildings	5	5	18,649	25,000	74.6%	2,089	\$ 8.93
33	Infrared Heating System	81	250	40,990	187,500	21.9%	3,157	
34	Modulating Infrared Heaters (NC or Replacing Non-IR)	-	20	-	21,750	0.0%	-	\$ -
35	Modulating Infrared Heaters (Replacing Non-IR) (busir	-	1	-	290	0.0%	-	
36	Condensing RTU's (business)	-	1	-	1,875	0.0%	-	\$ -
37	High Efficiency Gas Combo Oven	8	20	8,000	20,000	40.0%	258	
38	High Efficiency Gas Combo Oven (Used)	-	1	-	500	0.0%	-	\$ -
39	Energy Star Gas Commercial Fryer	17	20	8,500	15,000	56.7%	549	
40	Energy Star Gas Commercial Fryer (Used)	-	1	-	375	0.0%	-	\$ -
41	High Efficiency Gas Convection Oven	45	25	22,500	18,750	120.0%	1,267	
42	High Efficiency Gas Convection Oven (Used)	-	1	-	375	0.0%	-	\$ -
43	High Efficiency Gas Griddle	-	5	-	1,500	0.0%	-	
44	High Efficiency Gas Griddle (Used)	-	1	-	150	0.0%	-	\$ -
45	Energy Star Gas Steam Cooker	1	10	1,000	10,000	10.0%	71	\$ 14.16
46	Energy Star Gas Steam Cooker (Used)	-	1	-	500	0.0%	-	\$ -
47	Attic Insulation (retrofit)	15	25	46,070	28,000	164.5%	1,060	\$ 43.48
48	Wall Insulation (retrofit)	3	10	1,211	12,000	10.1%	29	
49	Demand Control Ventilation Systems	8	10	12,101	16,000	75.6%	1,317	
50	Demand Control Ventilation Systems (DCV) Packaged	95	40	272,800	10,000	2728.0%	14,840	
51	Pipe Insulation (Hot Water)	-	10	-	750	0.0%	-	
52	Pipe Insulation (Steam)	-	5	-	1,000	0.0%	-	
53	High Efficiency Charbroiler	-	5	-	5,000	0.0%	-	
54	High Efficiency Charbroiler (Used)	-	1	-	500	0.0%	-	
55	Conveyor Oven	-	5	-	5,000	0.0%	-	\$ -
56	Conveyor Oven (Used)	-	1	-	500	0.0%	-	
57	Gas Dryer Moisture Sensor	-	1	-	25	0.0%	-	\$ -
58	Modulating Gas Dryer	-	5	-	375		-	
59	Solar Assisted Water Heater- Pool- Business	-	1	-	750	0.0%	-	\$ -
60	Prescriptive ERV	122	275	\$ 93,139	\$ 27,500	338.7%	888	\$ 104.87
61	Administrative & Overheads	N/A	N/A	1,025,290	1,139,000		N/A	
62	Total	1,639	2,778	3,000,036	3,109,198	96.5%	126,113	\$ 23.79

THERMWISE HOME ENERGY PLAN PROGRAM

The ThermWise Home Energy Plan Program is designed to give customers an opportunity to have their current energy efficiency efforts evaluated, with suggestions offered on ways to improve those efforts. 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 as it introduces customers to the potential savings they may realize by

implementing additional energy efficiency measures. Table 5 shows Dth savings in 2020 decreased to 25,962, or 24% from 33,970 in 2019. Again, the pandemic may have made consumers uneasy about having home energy plans completed or implemented due to costs.

DOMINION ENERGY UTAH
Home Energy Plans Program
As of December 31, 2020
Docket No. 20-057-01
Table 5

Line #	Program	Participants		Costs			Dth Savings	
		Actual 2020	Budget 2020	Actual 2020	Budget 2020	% of 2020	Dth 2020	C/Dth 2020
1	Efficiency Measures	1,879	2,240	\$ 21,766	\$ 41,812	52.1%	25,962	\$ 0.84
2	Administrative & Overheads	N/A	-	356,201	\$ 533,000	66.8%	N/A	
3	Total	1,879	2,240	\$ 377,967	\$ 574,812	65.8%	25,962	\$ 14.56

**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 highest rebated measures of the DEUs Energy Efficiency Program and increased from 2019 levels by 21%. The Weatherization Program reached 124.9% of budgeted expenditures, higher than the 2019 Weatherization Program that reached 105% of budgeted expenditures. The primary drivers of the program were Air Sealing, Attic Insulation Tier 1 with the ICAST pilot in 3rd place. Air Sealing spent \$4.4 million nearly 50% of the overall Weatherization Rebate program. It does appear to be a program measure that is stabilizing and should continue to be evaluated in subsequent budget filings. Attic Insulation Tier 1 had 12,613 participants and spent \$2.6 million making the measure the largest participating program and second largest in rebates. The ICAST pilot had 7,374 participants and spent \$1.2 million, or 273% of its \$450,000 budget. The Division recommends the Company address these results at a future 2021 Advisory Group meeting.

The 2020 actual total weighted cost for these measures is \$48.00 per saved Dth, which is a reduction from \$60.58 actual total weighted cost per saved Dth in 2019.

DOMINION ENERGY UTAH
Weatherization Rebates Program
As of December 31, 2020
Docket No. 20-057-01
Table 6

Line #	Program	Participants		Costs			Dth Savings	
		Actual 2020	Budget 2020	Actual 2020	Budget 2020	% of Budget	Actual 2020	C/Dth
1	Attic Insulation Tier 1 - .25 per sq. ft	12,613	13,200	\$ 2,553,072	\$ 1,683,000	151.7%	43,300	\$ 58.96
2	Attic Insulation Tier 2	4,554	5,300	\$ 322,372	\$ 293,090	110.0%	4,790	\$ 67.31
3	Floor Insulation	72	185	\$ 12,301	\$ 14,356	85.7%	335	\$ 36.76
4	Wall Insulation	455	780	\$ 124,776	\$ 119,340	104.6%	1,764	\$ 70.75
5	R-5 Windows	2,190	1,500	\$ 406,973	\$ 693,750	58.7%	9,090	\$ 44.77
6	Duct Sealing & Insulation	66	400	\$ 20,866	\$ 120,960	17.3%	701	\$ 29.75
7	Air Sealing	9,459	9,400	\$ 4,425,510	\$ 3,929,200	112.6%	55,442	\$ 79.82
8	Pipe Insulation (weatherization)	-	100	\$ -	\$ 250	0.0%	-	\$ -
9	ICAST pilot	7,374	1,000	\$ 1,229,269	\$ 450,000	273.2%	92,175	\$ 13.34
10	Attic Insulation Tier 1 (multifamily) - .25 per sq.	7	24	\$ 648	\$ 2,760	23.5%	11	\$ 58.96
11	Attic Insulation (multifamily) Tier 2	3	24	\$ 136	\$ 1,327	10.3%	2	\$ 67.31
12	Floor Insulation (multifamily)	-	10	\$ -	\$ 364	0.0%	-	\$ -
13	Wall Insulation (multifamily)	-	10	\$ -	\$ 1,020	0.0%	-	\$ -
14	R-5 Windows (multifamily)	-	5	\$ -	\$ 1,150	0.0%	-	\$ -
15	Duct Sealing & Insulation (multifamily)	-	5	\$ -	\$ 1,512	0.0%	-	\$ -
16	Administrative & Overheads	N/A	N/A	\$ 870,301	\$ 670,000	129.9%	N/A	\$ -
17	Total	36,793	31,943	9,966,225	7,982,079	124.9%	207,609	\$ 48.00

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

THERMWISE MARKET TRANSFORMATION PROGRAM

Table 7 shows the ThermWise MTI program costs were 71% of the expected 2020 levels. Costs increased slightly from \$852,478 in 2019 to \$937,217 in 2020. The budget for the MTI was under spent by \$382,783. Due to the pandemic, the Company was not able to participate in as many projects as projected.

DOMINION ENERGY UTAH
Market Transformation
As of December 31, 2020
Docket No. 20-057-01
Table 7

Line #	Program	Participants		Costs			Dth Savings	
		Actual 2020	Budget 2020	Actual 2020	Budget 2020	% of Budget	Actual 2020	Average Weight
1	Market Transformation Total	N/A	N/A	\$ 937,217	\$ 1,320,000	71.0%	N/A	N/A

THERMWISE ENERGY COMPARISON REPORT

Table 8 shows the ThermWise Energy Comparison Report cost \$554,643, which represents 97.3% of the expected 2020 level of \$570,000. This was slightly more than the 2019 amount of \$452,025. Current distribution of the energy comparison reports is to approximately 266,600 participants, up from 224,400 customers in 2019. The report is available to customers via opt-in and opt-out programs. Reviewing the 2020 deemed Dth savings of 322,586, the total actual weighted cost of \$1.72 per saved Dth, up from \$1.24 in 2019.

DOMINION ENERGY UTAH
Energy Comparison
As of December 31, 2020
Docket No. 20-057-01
Table 8

Line #	Program	Participants		Costs			Dth Savings	
		Actual 2020	Budget 2020	Actual 2020	Budget 2020	% of Budget	Actual 2020	C/Dth 2020
1	Energy Comparison Report Total	266,600	266,600	\$ 554,643	\$ 570,000	97.3%	322,586	\$ 1.72

THERMWISE LOW INCOME EFFICIENCY PROGRAM

Table 9 illustrates the designed incentives and measures for low income participants. The ThermWise Low Income Efficiency Program was budgeted at \$867,270. The program includes \$500,000 to provide low-income qualified residences with energy efficient furnaces. The Low-Income Efficiency Tariff includes a paragraph allowing approved non-profit or governmental agencies to apply for rebates under the ThermWise Programs. This allows qualified agencies to utilize rebates for work they have performed to do additional FINAL weatherization measures. 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 as a result of 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 78.5% of the total budget was spent. The 2020 actual total weighted cost for the

measures implemented was \$73.52 per saved Dth. The program decreased its performance from 2019 total weighted cost for the measures implemented of \$56.34 per saved Dth.

DOMINION ENERGY UTAH
Low Income Efficiency
As of December 31, 2020
Docket No. 20-057-01
Table 9

Line #	Program	Participants		Costs			Dth Savings	
		Actual 2020	Budget 2020	Actual 2020	Budget 2020	% of Budget	Actual 2020	C/Dth 2020
1	95% Efficient Furnace	124	300	38,300	\$ 90,000	42.6%	1,459	\$ 26.24
2	98% Efficient Furnace	3	4	1,100	\$ 1,400	78.6%	42	\$ 26.47
3	Boilers Tier 2	1	-	600	\$ -	0.0%	25	\$ 23.81
4	Gas Water Heater - Tier 2	8	38	800	\$ 3,800	21.1%	32	\$ 25.25
5	Water Heater - Storage Condensing (Energy Star)	4	-	1,400	\$ -	0.0%	35	\$ 40.32
6	Water Heater - Hybrid	4	-	1,400	\$ -	0.0%	35	\$ 40.32
7	Attic Insulation - Tier 1	160	220	30,727	\$ 67,760	45.3%	651	\$ 47.17
8	Attic Insulation Tier 2	67	120	1,186	\$ 9,240	12.8%	22	\$ 53.85
9	Floor Insulation	15	48	3,037	\$ 10,224	29.7%	103	
10	Wall Insulation	56	40	12,721	\$ 11,802	107.8%	225	\$ 56.60
11	Duct Sealing & Insulation	-	50	-	\$ 20,962	0.0%	-	\$ -
12	Air Sealing	133	280	55,049	\$ 81,050	67.9%	932	
13	Tank Less Gas Water Heater - Tier 2 (low income)	-	5	-	\$ 1,750	0.0%	-	\$ -
14	Smart Thermostat (low income)	126	800	6,300	\$ 40,000	15.8%	1,084	\$ 5.81
15	Low Income Furnace Replacement	225	600	\$ 500,000	\$ 500,000	100.0%	4,613	\$ 108.40
16	Administrative & Overheads	N/A	N/A	27,948	\$ 29,283	95.4%	N/A	
17	Total	926	2,505	\$ 680,568	\$ 867,270	78.5%	9,257	\$ 73.52

Conclusion

The Division acknowledges the success of the Energy Efficiency Programs initiated by Dominion Energy as they benefit all rate payers by reducing natural gas usage levels. The Division recommends the Commission acknowledge the EE Program report for the year ending December 31, 2020. Dominion and the Advisory Group may wish to address trends in various programs and their implications for future budgeting and programs.

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