

Dominion Energy Utah  
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DominionEnergy.com



Chris Parker  
Utah Department of Commerce  
Division of Public Utilities  
SM Box 146751  
Salt Lake City, UT 84114-6751

March 27, 2018

*Subject: Docket No. 16-057-15*

Dear Chris:

The attached copy of the Energy Efficiency Report replaces the report filed on March 14, 2018 and corrects a reporting error of the total 2017 actual costs. The attached report is for the year ended December 31, 2017. This report was designed and prepared based on recommendations from the DPU and Dominion Energy (formally Questar Gas) for the purpose of providing timely information on Questar Gas' energy-efficiency programs and to assist the Division in monitoring and reporting the status of these programs. The report provides quarterly and year-to-date information on participants, costs, and natural gas savings for the Company's energy-efficiency programs.

If you have any questions, or if we can provide additional information, please contact me.

Sincerely,

Michael A. Orton  
Director Energy Efficiency

A handwritten signature in black ink, appearing to read "Michael A. Orton", written over a light blue horizontal line.

cc: Carolyn Roll, DPU  
Public Service Commission

**Dominion Energy**  
**Energy Efficiency Report - Utah Programs**  
**As of December 31, 2017**

Line #	Program	4th Quarter 2017		Total 2017				
		Actual		Actual Participants	Estimated Participants	Dth Savings*	Actual Costs	Budget
		Participants	Costs					
1	ThermWise Appliance Rebates	9,090	\$ 1,822,447	25,741	20,529	248,661	\$ 5,924,522	\$ 6,160,250
2	ThermWise Builder Rebates	4,987	1,201,111	22,919	16,764	135,585	5,643,832	5,332,588
3	ThermWise Business Rebates	494	1,817,754	1,748	2,257	164,302	3,980,426	2,906,935
4	ThermWise Home Energy Plan	464	128,923	2,166	2,800	30,851	491,356	760,265
5	ThermWise Weatherization Rebates	7,452	1,468,100	22,491	25,783	70,373	4,044,040	7,248,031
6	Market Transformation	N/A	305,631	N/A	N/A	N/A	1,228,212	1,340,000
7	ThermWise Energy Comparison Report	63,750	144,729	255,000	255,000	232,050	392,199	480,217
8	Low Income Efficiency Program	141	34,264	984	1,662	10,418	669,250	859,675
9	<b>Programs Total **</b>	<b>22,628</b>	<b>\$ 6,922,961</b>	<b>76,049</b>	<b>69,795</b>	<b>892,241</b>	<b>\$ 22,373,837</b>	<b>\$ 25,087,962</b>
10	DSM Interest	N/A	22,653	N/A	N/A	N/A	12,211	N/A
11	DSM Amortization	N/A	(7,632,141)	N/A	N/A	N/A	(20,806,992)	N/A
12	DSM General Administration	-	-	N/A	N/A	N/A	-	N/A
13	<b>2017 TOTAL</b>	<b>22,628</b>	<b>\$ (686,526)</b>	<b>76,049</b>	<b>69,795</b>	<b>892,241</b>	<b>\$ 1,579,055</b>	<b>\$ 25,087,962</b>

\*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.

**Dominion Energy**  
**ThermWise Appliance Rebate Program - Utah Programs**  
**As of December 31, 2017**

Line#	Program	4th Quarter 2017		Total 2017				
		Actual		Actual Participants	Estimated Participants	Dth Savings*	Actual Costs	Budget
		Participants	Costs					
1	92% Efficient Furnace	10	\$ 2,000	43	61	571	\$ 8,600	\$ 12,200
2	95% Efficient Furnace	665	232,750	2,601	3,364	42,656	910,350	1,177,400
3	95% Efficient Furnace with ECM	1,227	490,800	4,534	4,794	74,358	1,813,600	1,917,600
4	98% Efficient Furnace with ECM	215	96,750	833	700	14,528	374,850	315,000
5	2.7 IMEF Washer	-	-	838	-	818	41,900	-
6	Gas Water Heater - Tier 2	145	14,500	478	761	1,094	47,800	76,100
7	Condensing Gas Water Heater	13	4,550	58	70	403	20,300	24,500
8	Hybrid Gas Water Heater	2	700	17	10	118	5,950	3,500
9	Boilers Tier 1	10	4,000	19	40	284	7,600	16,000
10	Boilers Tier 2	18	10,800	91	81	1,835	54,600	48,600
11	Solar Assisted Water Heater (domestic)	-	-	2	7	28	1,500	5,250
12	Solar Assisted Water Heater (pool)	2	1,500	10	7	551	7,500	5,250
13	Tankless Gas Water Heater (tier 2)	1	350	2	-	15	700	-
14	Tankless Gas Water Heater (tier 1)	5	1,500	28	73	192	8,400	21,900
15	Tankless Gas Water Heater (tier 2)	164	57,400	706	725	5,292	247,100	253,750
16	Direct Vent Gas Fireplace	90	18,000	447	351	3,862	89,400	70,200
17	Smart Thermostat (appliance)	6,392	639,200	14,581	9,250	100,317	1,458,100	925,000
18	92% Efficient Furnace	-	-	-	5	-	-	1,000
19	95% Efficient Furnace	48	16,800	161	60	837	56,350	21,000
20	95% Efficient Furnace with ECM	20	8,000	21	60	109	8,400	24,000
21	98% Efficient Furnace with ECM	-	-	-	5	-	-	2,250
22	2.6 MEF Washer	-	-	5	-	5	250	-
23	Gas Water Heater - Tier 2	1	100	88	5	201	8,800	500
24	Solar Assisted Water Heater (domestic)	-	-	-	5	-	-	3,750
25	Solar Assisted Water Heater (pool)	-	-	-	5	-	-	3,750
26	Condensing Gas Water Heater	-	-	-	5	-	-	1,750
27	Hybrid Gas Water Heater	-	-	-	5	-	-	1,750
28	Boilers Tier 2	-	-	1	5	13	600	3,000
29	Direct Vent Gas Fireplace	-	-	-	5	-	-	1,000
30	Smart Thermostat (existing multifamily)	62	6,200	172	60	550	17,200	6,000
31	Tankless Gas Water Heater (tier 1)	-	-	-	5	-	-	1,500
32	Tankless Gas Water Heater (tier 2)	-	-	5	5	24	1,750	1,750
33	Administrative & Overheads	N/A	216,547	N/A	N/A	N/A	732,922	1,215,000
34	<b>Total</b>	<b>9,090</b>	<b>\$ 1,822,447</b>	<b>25,741</b>	<b>20,529</b>	<b>248,661</b>	<b>\$ 5,924,522</b>	<b>\$ 6,160,250</b>

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

Dominion Energy  
ThermWise Builder Rebates Program - Utah Programs  
As of December 31, 2017

Line #	Program	4th Quarter 2017		Total 2017				
		Participants	Costs	Actual Participants	Estimated Participants	Dth Savings*	Actual Costs	Budget
1	Energy Star 3.0	7	\$ 2,100	278	-	4,159	\$ 83,400	\$ -
2	High Performance Homes	-	-	6	-	150	3,000	-
3	HERS Index 62 or lower (builder)	227	22,700	485	1,190	2,018	48,500	119,000
4	HERS Index 55 or lower (builder)	100	20,000	197	33	1,639	39,400	6,600
5	HERS Index 48 or lower (builder)	-	-	3	16	37	900	4,800
6	Energy Star 3.0 Bonus (builder)	115	5,750	187	330	416	9,350	16,500
7	92% Efficient Furnace	25	5,000	153	450	1,160	30,600	90,000
8	95% Efficient Furnace	1,168	408,800	4,641	8,500	41,583	1,624,350	2,975,000
9	95% Efficient Furnace with ECM	172	68,800	1,055	500	9,453	422,000	200,000
10	98% Efficient Furnace with ECM	5	2,250	10	80	99	4,500	36,000
11	Tier 1 Storage Water Heater	5	250	8	-	11	400	-
12	.67 EF Storage Water Heater	4	400	4	-	13	400	-
13	.67 EF Storage Water Heater	295	29,500	1,057	715	2,418	105,700	71,500
14	Tankless Water Heater Tier 1	-	-	1	-	9	300	-
15	Tankless Water Heater	-	-	7	80	47	2,100	24,000
16	Tankless Water Heater Tier 2	47	16,450	133	110	1,138	46,550	38,500
17	Condensing Gas Water Heater	-	-	3	10	21	1,050	3,500
18	Hybrid Gas Water Heater	-	-	1	5	7	350	1,750
19	Gas Boiler Rebates Paid - Tier 1	-	-	1	9	10	400	3,600
20	Gas Boiler Rebates Paid - Tier 2	1	600	23	33	296	13,800	19,800
21	Solar Assisted Water Heater - domestic	-	-	-	5	-	-	3,750
22	Solar Assisted Water Heater - pool	-	-	-	5	-	-	3,750
23	2x6 Walls	13	4,550	1,192	-	12,206	417,200	-
24	2X6 R-23 Walls	437	65,550	1,110	650	4,795	166,500	97,500
25	R-5 Window	141	5,769	520	330	184	19,808	825
26	Smart Thermostat (builder)	29	2,900	138	220	475	13,800	22,000
27	HERS- 10% better than code (builder)	-	-	1,113	-	11,842	222,600	-
28	Energy Star 3.0 - MF	-	-	507	-	3,610	101,400	-
29	High Performance Homes - MF	-	-	1	-	10	300	-
30	HERS Index 62 or lower - MF	322	16,100	417	-	767	20,850	-
31	HERS Index 55 or lower - MF	133	13,300	158	-	581	15,800	-
32	HERS Index 48 or lower - MF	8	1,200	8	-	44	1,200	-
33	Energy Star 3.0 Bonus - MF	295	7,375	369	-	334	9,225	-
34	92% Efficient Furnace - MF	-	-	50	1,200	224	10,000	240,000
35	95% Efficient Furnace - MF	883	309,050	2,896	1,500	15,059	1,013,600	525,000
36	95% Efficient Furnace with ECM - MF	7	2,800	9	33	47	3,600	13,200
37	98% Efficient Furnace with ECM - MF	-	-	-	5	-	-	2,250
38	Tier 1 Storage Water Heater - MF	-	-	109	-	149	5,450	-
39	.67 EF Storage Water Heater - MF	344	34,400	1,236	715	1,374	123,600	71,500
40	Tankless Water Heater - MF	-	-	-	5	-	-	1,500
41	Tankless Water Heater Tier 2 - MF	35	12,250	202	-	1,091	70,700	-
42	Hybrid Gas Water Heater - MF	-	-	-	5	-	-	1,750
43	Boilers Tier 1 - MF	-	-	-	5	-	-	2,000
44	Boilers Tier 2 - MF	-	-	-	5	-	-	3,000
45	Solar Assisted Water Heater - domestic MF	-	-	-	5	-	-	3,750
46	Solar Assisted Water Heater - pool MF	-	-	-	5	-	-	3,750
47	2x6 Walls - MF	-	-	2,342	-	7,494	351,300	-
48	R-5 Window	-	-	26	5	7	1,020	13
49	Smart Thermostat (new multifamily)	169	16,900	781	5	1,062	78,100	500
50	HERS- 10% better than code (new multifamily)	-	-	1,482	-	9,544	148,200	-
51	Administrative & Overheads	N/A	126,368	N/A	N/A	N/A	412,530	726,000
52	<b>Total</b>	<b>4,987</b>	<b>\$ 1,201,111</b>	<b>22,919</b>	<b>16,764</b>	<b>135,585</b>	<b>\$ 5,643,832</b>	<b>\$ 5,332,588</b>

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

Dominion Energy  
ThermWise Business Rebates Program - Utah Programs  
As of December 31, 2017

Line #	Program	4th Quarter 2017		Total 2017				
		Actual		Actual	Estimated	Dth	Actual	Budget
		Participants	Costs	Participants	Participants	Savings*	Costs	
1	Business Custom	6	\$ 43,810	17	15	8,688.20	\$ 82,491	\$ 60,000
2	92% Efficient Furnace	-	-	1	2	13	200	400
3	95% Efficient Furnace	128	44,800	326	150	4,720	114,100	52,500
4	95% Efficient Furnace with ECM	38	15,200	103	75	1,491	41,200	30,000
5	98% Efficient Furnace with ECM NEW 2017	1	450	2	15	35	900	6,750
6	Gas Storage Water Heater - Tier 2 <75kBtu .67	-	-	1	5	2	100	500
7	Gas Storage Water Heater >75kBtu	-	-	1	30	28	400	18,000
8	Gas Storage Water Heater >75kBtu	52	29,769	69	-	4,143	35,719	-
9	High Efficiency Gas Water Heater - Tankless <200kBTU	2	399,398	7	30	28,213	399,992	12,000
10	High Efficiency Gas Water Heater - Tankless >200kBTU	12	19,480	19	1	2,319	32,880	1,020
11	Condensing Gas Water Heater NEW 2017	-	-	7	3	57	2,450	1,050
12	Hybrid Gas Water Heater	-	-	3	1	24	1,050	350
13	Combined Space / Water Heater (business)	-	-	-	1	-	-	450
14	Commercial Clothes Washer	-	-	-	5	-	-	375
15	Boiler Reset Control	1	250	8	2	474	2,000	500
16	Boiler Tune-up Tier 1	-	-	1	10	8	100	1,000
17	Boiler Tune-up Tier 2	-	-	1	-	39	300	-
18	Boiler Tune-up Tier 2 NEW 2017	-	-	-	50	-	-	7,500
19	Boiler Tune-up Tier 3	-	-	4	-	490	1,750	-
20	Boiler Tune-up Tier 3 NEW 2017	-	-	4	40	280	1,000	10,000
21	Low Flow Pre-rinse Spray Valve	-	-	-	500	-	-	16,000
22	Smart Thermostat (business)	-	-	47	-	376	4,700	-
23	Smart Thermostat (business) NEW 2017	16	1,600	52	450	405	5,057	31,500
24	Direct Contact Water Heater	-	-	-	1	-	-	298
25	High Efficiency Boiler Hot Water Tier 1	5	1,910	11	15	875	12,176	60,000
26	High Efficiency Boiler Hot Water Tier 2	18	101,049	25	75	10,407	124,605	304,688
27	Boiler Hot Water ≥ 2,500,000 Btu/h (business)	8	99,125	48	-	25,750	384,598	-
28	Boiler Hot Water ≥ 2,500,000 Btu/h (business) NEW 2017	38	373,750	40	52	30,008	393,250	507,000
29	High Efficiency Boiler Steam Tier 1	-	-	1	1	693	9,640	4,140
30	Boiler Steam (Except Natural Draft) ≥ 300,000 Btu/h (business)	-	-	1	-	302	6,856	-
31	Boiler Steam (Except Natural Draft) ≥ 300,000 Btu/h (business) NEW 2	1	2,712	1	1	76	2,712	10,906
32	Boiler Steam (Natural Draft) ≥ 300,000 Btu/h (business)	1	1,300	1	1	62	1,300	10,806
33	Gas Unit Heater NonCondensing	-	-	5	10	55	1,563	2,500
34	Gas Unit Heater Condensing	9	8,400	46	5	1,288	56,928	8,100
35	Infrared Heating System	36	16,090	590	524	31,263	406,940	393,000
36	Modulating Infrared Heaters (NC or Replacing Non-IR) (business)	-	-	-	1	-	-	1,088
37	Modulating Infrared Heaters (Replacing Non-IR) (business)	-	-	-	1	-	-	290
38	Condensing RTU's (business)	-	-	-	1	-	-	1,875
39	High Efficiency Gas Combo Oven	11	11,000	16	1	516	16,000	1,000
40	Energy Star Gas Commercial Fryer	1	500	36	30	1,164	18,000	22,500
41	High Efficiency Gas Convection Oven	94	47,000	108	10	1,395	54,000	7,500
42	High Efficiency Gas Griddle	-	-	-	5	-	-	1,500
43	Energy Star Gas Steam Cooker	1	1,000	2	1	56	2,000	1,000
44	Attic Insulation (new construction)	-	-	12	-	531	20,405	-
45	Attic Insulation (retrofit)	4	12,102	102	-	6,932	447,236	-
46	Attic Insulation (retrofit) NEW 2017	5	10,497	11	100	573	18,495	112,000
47	Wall Insulation (new construction)	1	487	9	-	110	6,754	-
48	Wall Insulation (retrofit)	-	-	4	10	19	787	12,000
49	Demand Control Ventilation Systems	5	13,262	5	10	361	13,262	40,000
50	High Efficiency Charbroiler	-	-	1	5	60	1,000	5,000
51	Conveyor Oven	-	-	-	5	-	-	5,000
52	Gas Dryer Moisture Sensor	-	-	-	5	-	-	125
53	Modulating Gas Dryer	-	-	-	1	-	-	75
54	Solar Assisted Water Heater- Pool- Business	-	-	-	1	-	-	750
55	Business Custom Rebates	-	-	-	-	-	-	-
56	Administrative & Overheads	N/A	563,814	N/A	N/A	N/A	1,256,533	1,144,000
57	<b>Total</b>	<b>494</b>	<b>\$ 1,817,754</b>	<b>1,748</b>	<b>2,257</b>	<b>164,302</b>	<b>\$ 3,960,426</b>	<b>\$ 2,906,935</b>

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

**Dominion Energy**  
**ThermWise Home Energy Plan - Utah Programs**  
**As of December 31, 2017**

Line #	Program	4th Quarter 2017		Total 2017					
		Actual		Plans / Participants**	Efficiency Items**	Estimated Participants	Dth Savings*	Actual Costs	Budget
		Participants**	Costs						
1	<i>THERMWISE HOME ENERGY PLAN</i>								
2	Efficiency Measures	464	\$ 7,848	2,166	15,024	2,800	30,851	\$ 37,071	\$ 52,265
3	Administrative & Overheads	N/A	121,076	N/A	N/A	N/A	N/A	454,285	708,000
4	<b>Total</b>	<b>464</b>	<b>\$ 128,923</b>	<b>2,166</b>	<b>15,024</b>	<b>2,800</b>	<b>30,851</b>	<b>\$ 491,356</b>	<b>\$ 760,265</b>

\*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.

**Dominion Energy**  
**ThermWise Weatherization Rebates Program - Utah Programs**  
**As of December 31, 2017**

Line #	Program	4th Quarter 2017		Total 2017				
		Actual		Actual Participants	Estimated Participants	Dth Savings*	Actual Costs	Budget
		Participants	Costs					
1	Attic Insulation Tier 1 - .25 per sq. ft	430	\$ 138,306	2,222	8,000	12,337	\$ 727,435	\$ 2,594,000
2	Attic Insulation Tier 2	328	28,846	1,502	2,000	1,984	133,564	189,000
3	Floor Insulation	36	7,408	158	250	817	30,021	39,913
4	Wall Insulation	96	28,283	495	860	2,063	145,957	221,696
5	R-5 Windows	2,831	104,016	9,501	450	8,018	358,970	17,237
6	Duct Sealing & Insulation	173	52,493	1,908	2,000	20,576	601,159	1,048,077
7	Air Sealing	28	15,483	95	400	861	53,783	210,698
8	Attic Insulation Tier 1 (multifamily) - .25 per sq. ft	221	38,923	1,618	4,000	4,119	242,878	989,355
9	Attic Insulation (multifamily) Tier 2	38	4,232	543	2,200	557	37,478	148,672
10	Floor Insulation (multifamily)	-	-	-	20	-	-	364
11	Wall Insulation (multifamily)	-	-	-	3	-	-	306
12	R-5 Windows (multifamily)	2	379	146	-	98	4,394	-
13	Duct Sealing & Insulation (multifamily)	27	4,401	540	5,600	3,456	115,363	973,714
14	DI- Insulation- Attic- Tier 1	1,472	272,736	1,728	-	5,216	307,543	-
15	DI- Insulation- Attic- Tier 2	572	47,746	689	-	833	56,057	-
16	DI- Sealing- Air	1,198	529,691	1,346	-	9,439	589,923	-
17	Administrative & Overheads	N/A	195,160	N/A	N/A	N/A	639,514	815,000
18	<b>Total</b>	<b>7,452</b>	<b>\$ 1,468,100</b>	<b>22,491</b>	<b>25,783</b>	<b>70,373</b>	<b>\$ 4,044,040</b>	<b>\$ 7,248,031</b>

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

**Dominion Energy**  
**Market Transformation - Utah Programs**  
**As of December 31, 2017**

Line #	Program	4th Quarter 2017		Total 2017			
		Actual		Actual Participants	Estimated Participants	Actual Costs	Budget
		Participants	Costs				
1	Market Transformation Total	N/A	\$ 305,631	N/A	N/A	\$ 1,228,212	\$ 1,340,000



**Dominion Energy**  
**ThermWise Energy Comparison Report - Utah Programs**  
**As of December 31, 2017**

Line #	Program	4th Quarter 2017		Total 2017				
		Actual		Actual Participants	Estimated Participants	Dth Savings	Actual Costs	Budget
		Participants	Costs					
1	Energy Comparison Report Total	63,750	\$ 144,729	255,000	255,000	232,050	\$ 392,199	\$ 480,217

Dominion Energy  
 Low Income Efficiency Program - Utah Programs  
 As of December 31, 2017

Line #	Program	4th Quarter 2017		Total 2017				
		Actual		Actual Participants	Estimated Participants	Dth Savings	Actual Costs	Budget
		Participants	Costs					
1	95% Efficient Furnace	14	\$ 4,900	68	210	1,394	\$ 23,800	\$ 73,500
2	95% Efficient Furnace with ECM	4	1,600	23	38	472	9,200	15,200
3	98% Efficient Furnace with ECM	-	-	1	4	22	450	1,600
4	Gas Water Heater - Tier 2	1	100	4	38	16	400	3,800
5	Attic Insulation - Tier 1	37	5,777	202	242	660	31,149	76,908
6	Attic Insulation Tier 2	17	254	89	154	20	1,060	15,013
7	Floor Insulation	4	582	24	62	101	2,965	13,206
8	Wall Insulation	24	4,195	91	54	269	15,253	15,939
9	Duct Sealing & Insulation	-	-	-	70	-	-	30,590
10	Air Sealing	40	15,669	197	280	1,622	81,113	81,050
11	Tank Less Gas Water Heater - Tier 1 (low inc	-	-	-	5	-	-	1,500
12	Tank Less Gas Water Heater - Tier 2 (low inc	-	-	-	5	-	-	1,750
13	Low Income Furnace Replacement	-	-	285	500	5,843	500,000	500,000
14	Administrative & Overheads	N/A	1,187	N/A	N/A	N/A	3,859	29,620
15	<b>Total</b>	<b>141</b>	<b>\$ 34,264</b>	<b>984</b>	<b>1,662</b>	<b>10,418</b>	<b>\$ 669,250</b>	<b>\$ 859,675</b>