



Questar Gas Company
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March 27, 2017

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

Subject: Docket No. 15-057-16

Dear Chris:

Attached please find a copy of the Energy Efficiency Report for the quarter ended December 31, 2016. This report was designed and prepared based on recommendations from the DPU and 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,

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

Michael A. Orton
Director Energy Efficiency

cc: Carolyn Roll, DPU
Public Service Commission
Office of Consumer Services

Questar Gas Company
Energy Efficiency Report - Utah Programs
As of December 31, 2016

Line #	Program	4th Quarter 2016		Total 2016				
		Actual		Actual Participants	Estimated Participants	Dth Savings*	Actual Costs	Budget
		Participants	Costs					
1	ThermWise Appliance Rebates	6,869	\$ 1,631,142	24,870	21,281	219,903	\$ 5,890,953	\$ 5,558,600
2	ThermWise Builder Rebates	11,035	2,845,892	26,108	15,437	173,367	7,019,648	4,986,675
3	ThermWise Business Rebates	557	959,764	2,036	2,235	138,399	3,390,276	2,094,546
4	ThermWise Home Energy Plan	469	130,671	2,233	3,163	31,530	578,898	919,840
5	ThermWise Weatherization Rebates	4,865	1,010,115	18,499	37,223	71,761	3,886,718	9,947,770
6	ThermWise Business Custom Rebates	3	92,448	18	15	4,653	289,751	498,000
7	Market Transformation	N/A	210,205	N/A	N/A	N/A	1,261,305	1,424,200
8	ThermWise Energy Comparison Report	57,500	92,726	230,000	230,000	174,800	267,576	410,000
9	Low Income Efficiency Program	296	66,198	1,212	1,770	13,225	734,287	889,817
10	Programs Total **	24,094	\$ 7,039,161	74,976	81,124	827,637	\$ 23,319,412	\$ 26,729,447
11	DSM Interest	N/A	12,375	N/A	N/A	N/A	(79,834)	N/A
12	DSM Amortization	N/A	(7,177,897)	N/A	N/A	N/A	(23,824,331)	N/A
13	DSM General Administration	-	-	N/A	N/A	N/A	-	N/A
14	2016 TOTAL	24,094	\$ (126,361)	74,976	81,124	827,637	\$ (584,753)	\$ 26,729,447

*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.

Questar Gas Company
ThermWise Appliance Rebate Program - Utah Programs
As of December 31, 2016

Line#	Program	4th Quarter 2016			Total 2016					
		Actual		Costs	Actual Participants	Estimated Participants	Dth Savings*	Actual Costs	Budget	
		Participants	Costs							
1	92% Efficient Furnace	7	\$ 1,400		46	63	611	\$ 9,200	\$ 12,600	
2	95% Efficient Furnace	710	248,500		2,789	2,929	45,740	976,150	1,025,150	
3	95% Efficient Furnace with ECM	1,272	508,800		4,534	4,464	74,358	1,813,600	1,785,600	
4	98% Efficient Furnace with ECM	238	107,100		796	350	13,882	358,200	157,500	
5	2.6 MEF Washer	1	50		1,102	-	1,534	55,100	-	
6	2.7 IMEF Washer	1,271	63,550		3,522	6,773	3,437	176,100	338,650	
7	Gas Water Heater - Tier 1	1	50		316	-	432	15,800	-	
8	Gas Water Heater - Tier 2	123	12,300		561	761	1,356	56,100	76,100	
9	Condensing Gas Water Heater	7	2,450		46	50	326	16,100	17,500	
10	Hybrid Gas Water Heater	2	700		5	20	37	1,750	3,500	
11	Boilers Tier 1	5	2,000		22	40	329	8,800	16,000	
12	Boilers Tier 2	13	7,800		50	76	1,008	30,000	45,600	
13	Solar Assisted Water Heater (domestic)	-	-		2	10	28	1,500	7,500	
14	Solar Assisted Water Heater (pool)	1	750		5	10	276	3,750	7,500	
15	Tankless Gas Water Heater (tier 1)	4	1,200		34	83	235	10,200	24,900	
16	Tankless Gas Water Heater (tier 2)	149	52,150		618	691	4,652	216,300	241,850	
17	Direct Vent Gas Fireplace	96	19,200		382	243	3,300	76,400	48,600	
18	Smart Thermostat (appliance)	2,848	284,800		9,719	4,517	66,867	971,900	451,700	
19	92% Efficient Furnace	-	-		-	5	-	-	1,000	
20	95% Efficient Furnace	85	29,750		157	70	816	54,950	24,500	
21	95% Efficient Furnace with ECM	6	2,400		69	30	359	27,600	12,000	
22	98% Efficient Furnace with ECM	-	-		-	5	-	-	2,250	
23	2.6 MEF Washer	4	200		14	15	14	700	750	
24	Gas Water Heater - Tier 2	1	100		1	5	2	100	500	
25	Solar Assisted Water Heater (domestic)	-	-		-	5	-	-	3,750	
26	Solar Assisted Water Heater (pool)	-	-		-	5	-	-	3,750	
27	Condensing Gas Water Heater	-	-		-	5	-	-	1,750	
28	Hybrid Gas Water Heater	-	-		-	5	-	-	1,750	
29	Boilers Tier 1	-	-		-	5	-	-	2,000	
30	Boilers Tier 2	-	-		1	5	13	600	3,000	
31	Direct Vent Gas Fireplace	-	-		-	5	-	-	1,000	
32	Smart Thermostat (existing multifamily)	25	2,500		68	28	218	6,800	2,800	
33	Tankless Gas Water Heater (tier 1)	-	-		8	5	56	2,400	1,500	
34	Tankless Gas Water Heater (tier 2)	-	-		3	3	18	1,050	1,050	
35	Administrative & Overheads	N/A	283,392		N/A	N/A	N/A	999,803	1,235,000	
36	Total	6,869	\$ 1,631,142		24,870	21,281	219,903	\$ 5,890,953	\$ 5,558,600	

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

Questar Gas Company
ThermWise Builder Rebates Program - Utah Programs
As of December 31, 2016

Line #	Program	4th Quarter 2016			Total 2016			
		Actual		Actual Participants	Estimated Participants	Dth Savings*	Actual Costs	Budget
		Participants	Costs					
1	Energy Star 3.0	364	\$ 109,200	538	550	8,048	\$ 161,400	\$ 165,000
2	High Performance Homes	13	6,500	25	89	626	12,600	44,500
3	Builder Option- Package 1	-	-	3	89	41	150	-
4	92% Efficient Furnace	146	29,200	251	279	1,904	50,200	55,800
5	95% Efficient Furnace	1,891	661,850	5,400	3,000	48,384	1,890,000	1,950,000
6	95% Efficient Furnace with ECM	585	234,000	1,211	805	10,851	484,400	322,000
7	98% Efficient Furnace with ECM	8	3,600	17	5	169	7,650	2,250
8	Tier 1 Storage Water Heater	592	29,500	1,373	-	1,878	68,650	-
9	.67 EF Storage Water Heater	637	63,700	955	461	2,417	95,500	46,100
10	Tankless Water Heater	13	3,900	21	12	157	6,300	3,600
11	Tankless Water Heater Tier 2	67	23,450	122	204	1,082	42,700	71,400
12	Condensing Gas Water Heater	1	350	1	5	7	350	1,750
13	Hybrid Gas Water Heater	-	-	1	5	7	350	1,750
14	Gas Boiler Rebates Paid - Tier 1	1	400	6	8	58	2,400	3,200
15	Gas Boiler Rebates Paid - Tier 2	5	3,000	26	18	335	15,600	10,800
16	Solar Assisted Water Heater - domestic	-	-	1	5	14	750	3,750
17	Solar Assisted Water Heater - pool	-	-	-	5	-	-	3,750
18	2x6 Walls	1,651	577,850	3,262	1,850	33,403	1,141,700	647,500
19	R-5 Window	273	10,692	463	58	157	16,865	36,250
20	Smart Thermostat (builder)	55	5,500	121	30	416	12,100	3,000
21	HERS-10% better than code (builder)	1,244	248,800	1,906	1,620	20,280	381,200	324,000
22	Energy Star 3.0 - MF	143	28,600	526	656	3,745	105,200	131,200
23	High Performance Homes - MF	-	-	-	18	-	-	5,400
24	92% Efficient Furnace - MF	-	-	646	105	2,894	129,200	21,000
25	95% Efficient Furnace - MF	820	287,000	3,066	2,484	15,943	1,073,100	869,400
26	95% Efficient Furnace with ECM - MF	43	17,200	43	52	224	17,200	20,800
27	98% Efficient Furnace with ECM - MF	-	-	-	5	-	-	2,250
28	Tier 1 Storage Water Heater - MF	416	20,800	1,414	-	1,934	70,700	-
29	.67 EF Storage Water Heater - MF	295	29,500	690	661	1,329	69,000	66,100
30	Tankless Water Heater - MF	-	-	-	5	-	-	1,500
31	Tankless Water Heater Tier 2 - MF	12	4,200	110	146	222	38,500	25,550
32	Condensing Gas Water Heater - MF	-	-	70	5	302	24,500	1,750
33	Hybrid Gas Water Heater - MF	-	-	-	5	-	-	1,750
34	Boilers Tier 1 - MF	-	-	-	5	-	-	2,000
35	Boilers Tier 2 - MF	-	-	2	5	26	1,200	3,000
36	Solar Assisted Water Heater - domestic MF	-	-	-	5	-	-	3,750
37	Solar Assisted Water Heater - pool MF	-	-	-	5	-	-	3,750
38	2x6 Walls - MF	825	123,750	2,630	1,375	8,096	379,500	206,250
39	R-5 Window	-	-	-	5	-	-	3,125
40	Smart Thermostat (new multifamily)	1	100	1	5	1	100	500
41	HERS-10% better than code (new multifamily)	934	93,400	1,307	792	8,417	130,700	79,200
42	Administrative & Overheads	N/A	229,749	N/A	N/A	N/A	589,983	742,000
43	Total	11,035	\$ 2,845,892	26,108	15,437	173,367	\$ 7,019,648	\$ 4,986,675

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

Questar Gas Company
ThermWise Business Rebates Program - Utah Programs
As of December 31, 2016

Line #	Program	4th Quarter 2016		Total 2016				Budget
		Actual		Actual Participants	Estimated Participants	Dth Savings*	Actual Costs	
		Participants	Costs					
1	92% Efficient Furnace	-	-	-	3	-	\$	600
2	95% Efficient Furnace	69	24,150	229	300	3,316	80,150	105,000
3	95% Efficient Furnace with ECM	16	6,400	88	200	1,274	35,200	80,000
4	98% Efficient Furnace with ECM	1	450	4	2	58	1,800	900
5	Gas Storage Water Heater - Tier 2 <75kBtu .67	-	-	3	1	7	300	100
6	Gas Storage Water Heater >75kBtu	22	7,999	42	25	1,664	20,087	19,750
7	High Efficiency Gas Water Heater - Tankless >200kBtu	5	2,594	31	2	1,088	15,148	1,022
8	Condensing Gas Water Heater	-	-	-	1	-	-	350
9	Hybrid Gas Water Heater	2	700	3	1	24	1,050	350
10	Combined Space / Water Heater (business)	-	-	-	1	-	-	450
11	2.6 MEF Washer	-	-	-	1	-	-	50
12	Commercial Clothes Washer	-	-	2	1	4	150	75
13	Boiler Reset Control	-	-	-	2	-	-	500
14	Boiler Tune-up Tier 1	2	200	42	50	329	4,200	5,000
15	Boiler Tune-up Tier 2	3	900	51	125	1,993	15,300	18,750
16	Boiler Tune-up Tier 3	12	5,340	198	75	41,625	148,661	18,750
17	High Efficiency Pre-rinse Spray Valve	-	-	9	1,000	242	225	32,000
18	Smart Thermostat (business)	24	2,400	63	100	504	6,300	10,000
19	Direct Contact Water Heater	-	-	1	1	37	220	298
20	High Efficiency Boiler Hot Water Tier 1	-	-	5	7	1,539	21,424	20,216
21	High Efficiency Boiler Hot Water Tier 2	3	17,875	10	40	3,664	43,875	338,000
22	Boiler Hot Water ≥ 2,500,000 Btu/h (business)	15	69,202	46	1	16,295	243,383	9,750
23	High Efficiency Boiler Steam Tier 1	-	-	-	1	-	-	4,140
24	High Efficiency Boiler Steam Tier 2	1	19,176	1	1	2,608	19,176	-
25	Boiler Steam (Except Natural Draft) ≥ 300,000 Btu/h (business)	-	-	1	1	454	10,310	10,806
26	Boiler Steam (Natural Draft) ≥ 300,000 Btu/h (business)	-	-	1	1	741	10,310	10,806
27	Gas Unit Heater Non-Condensing	-	-	8	1	64	1,813	30
28	Gas Unit Heater Condensing	-	-	4	5	138	6,120	8,100
29	Infrared Heating System	316	207,850	847	50	46,232	600,318	36,250
30	Modulating Infrared Heaters (NC or Replacing Non-IR) (business)	-	-	-	1	-	-	1,088
31	Modulating Infrared Heaters (Replacing Non-IR) (business)	-	-	-	1	-	-	290
32	Condensing RTU's (business)	-	-	-	1	-	-	1,875
33	High Efficiency Gas Combo Oven	6	6,000	10	4	322	10,000	4,000
34	Energy Star Gas Commercial Fryer	7	3,500	41	25	1,325	20,500	12,500
35	High Efficiency Gas Convection Oven	17	8,500	26	8	336	13,000	4,000
36	High Efficiency Gas Griddle	2	600	8	8	56	2,400	2,400
37	Energy Star Gas Steam Cooker	-	-	-	1	-	-	1,000
38	Attic Insulation (new construction)	6	2,526	11	3	164	6,292	4,800
39	Attic Insulation (retrofit)	20	205,600	235	150	12,077	779,190	336,000
40	Wall Insulation (new construction)	6	1,362	10	5	46	2,852	1,575
41	Wall Insulation (retrofit)	-	-	4	2	47	1,939	2,400
42	High Efficiency Charbroiler	-	-	-	5	-	-	5,000
43	Conveyor Oven	2	2,000	2	8	141	2,000	8,000
44	Gas Dryer Moisture Sensor	-	-	-	10	-	-	250
45	Modulating Gas Dryer	-	-	-	1	-	-	75
46	Solar Assisted Water Heater: Pool-Business	-	-	-	3	-	-	2,250
47	Administrative & Overheads	N/A	364,440	N/A	N/A	N/A	1,266,584	975,000
48	Total	557	\$ 999,764	2,036	2,235	138,399	\$ 3,390,276	\$ 2,094,546

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

Questar Gas Company
 ThermWise Home Energy Plan - Utah Programs
 As of December 31, 2016

Line #	Program	4th Quarter 2016		Total 2016						
		Participants**	Actual Costs	Participants**	Plans / Participants**	Efficiency Items**	Estimated Participants	Dth Savings*	Actual Costs	Budget
1	THERMWISE HOME ENERGY PLAN									
2	Efficiency Measures	469	\$ 7,133		2,233	15,908	3,163	31,530	\$ 26,086	\$ 65,840
3	Administrative & Overheads	N/A	123,538		N/A	N/A	N/A	N/A	552,812	854,000
4	Total	469	\$ 130,671		2,233	15,908	3,163	31,530	\$ 578,898	\$ 919,840

*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.

Questar Gas Company
ThermWise Weatherization Rebates Program - Utah Programs
As of December 31, 2016

Line #	Program	4th Quarter 2016		Total 2016				
		Actual		Actual Participants	Estimated Participants	Dth Savings*	Actual Costs	Budget
		Participants	Costs					
1	Attic Insulation Tier 1 - .25 per sq. ft	666	\$ 218,065	3,085	14,000	17,965	\$ 1,059,272	\$ 4,539,500
2	Attic Insulation Tier 2	318	26,796	1,507	4,000	1,953	131,423	378,000
3	Floor Insulation	30	5,174	170	280	859	31,572	44,703
4	Wall Insulation	108	30,371	560	870	2,226	157,532	224,273
5	Windows	-	-	29	-	100	2,885	-
6	R-5 Windows	2,129	81,371	7,091	450	6,018	269,430	17,237
7	Duct Sealing & Insulation	896	247,238	2,920	3,000	31,489	890,793	1,257,692
8	Air Sealing	21	12,583	132	400	1,103	68,914	210,698
9	Attic Insulation Tier 1 (multifamily) - .25 per sq. ft	489	100,106	1,815	4,800	5,190	306,031	1,187,227
10	Attic Insulation (multifamily) Tier 2	120	8,730	519	3,600	490	32,977	243,281
11	Floor Insulation (multifamily)	-	-	-	20	-	-	364
12	Wall Insulation (multifamily)	-	-	14	3	6	441	306
13	Windows - R-5 (multifamily)	2	297	7	-	201	9,011	-
14	Duct Sealing & Insulation (multifamily)	106	24,648	650	5,800	4,160	128,909	1,008,489
15	Administrative & Overheads	N/A	254,736	N/A	N/A	N/A	797,530	836,000
16	Total	4,865	\$ 1,010,115	18,499	37,223	71,761	\$ 3,886,718	\$ 9,947,770

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

Questar Gas Company
ThermWise Business Custom Rebates Program - Utah Programs
As of December 31, 2016

Line #	Program	4th Quarter 2016		Total 2016				
		Actual Participants	Actual Costs	Actual Participants	Estimated Participants	Dith Savings*	Actual Costs	Budget
1	Business Custom Rebates	3	\$ 17,191	18	15	4,653	\$ 49,094	\$ 60,000
2	Administrative & Overheads	N/A	75,257	-	N/A	N/A	240,657	438,000
3	Total	3	\$ 92,448	18	15	4,653	\$ 289,751	\$ 498,000

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

Questar Gas Company
Market Transformation - Utah Programs
As of December 31, 2016

Line #	Program	4th Quarter 2016		Total 2016			
		Participants	Actual Costs	Actual Participants	Estimated Participants	Actual Costs	Budget
1	Market Transformation Total	N/A	\$ 210,205	N/A	N/A	\$ 1,261,305	\$ 1,424,200

Questar Gas Company
ThermWise Energy Comparison Report - Utah Programs
As of December 31, 2016

Line #	Program	4th Quarter 2016		Total 2016				
		Actual Participants	Actual Costs	Actual Participants	Estimated Participants	Dth Savings	Actual Costs	Budget
1	Energy Comparison Report Total	57,500	\$ 92,726	230,000	230,000	174,800	\$ 267,576	\$ 410,000

Questar Gas Company
 Low Income Efficiency Program - Utah Programs
 As of December 31, 2016

Line #	Program	4th Quarter 2016		Total 2016					
		Actual		Actual Participants	Estimated Participants	Dth Savings	Actual Costs	Budget	
		Participants	Costs						
1	95% Efficient Furnace	27	\$ 9,450	109	190	2,235	\$ 38,150	\$ 66,500	
2	95% Efficient Furnace with ECM	5	2,000	30	38	615	12,000	15,200	
3	98% Efficient Furnace with ECM	-	-	1	8	22	450	3,200	
4	Gas Water Heater - Tier 2	-	-	10	38	40	1,000	3,800	
5	Attic Insulation - Tier 1	105	17,246	257	260	1,049	49,488	82,628	
6	Attic Insulation Tier 2	45	680	84	180	25	1,330	17,547	
7	Floor Insulation	19	2,660	67	80	336	9,896	17,040	
8	Wall Insulation	20	4,092	68	76	277	15,687	22,433	
9	Duct Sealing & Insulation	-	-	7	70	94	2,520	30,590	
10	Air Sealing	75	28,981	260	320	1,993	99,648	92,629	
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	-	-	319	500	6,540	500,000	500,000	
14	Administrative & Overheads	N/A	1,089	N/A	N/A	N/A	4,118	35,000	
15	Total	296	\$ 66,198	1,212	1,770	13,225	\$ 734,286.90	\$ 889,817	