



Questar Gas Company
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September 29, 2016
Chris Parker
Utah Department of Commerce
Division of Public Utilities
SM Box 146751
Salt Lake City, UT 84114-6751

Docket No. 15-057-16

Dear Chris:

Attached please find a copy of the Energy Efficiency Report for the quarter ended June 30, 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,

Barrie L. McKay

cc: Doug Wheelwright, DPU
Public Service Commission
Office of Consumer Services

Questar Gas Company
Energy Efficiency Report - Utah Programs
As of June 30, 2016

Line #	Program	2nd Quarter 2016		Total 2016					
		Participants	Costs	Actual Participants	Estimated Participants	Dth Savings*	Actual Costs	Budget	
1	ThermWise Appliance Rebates	4,901	\$ 1,273,825	12,300	21,271	108,658	\$ 2,902,493	\$ 5,558,600	
2	ThermWise Builder Rebates	6,108	1,707,961	9,921	15,275	62,275	2,778,687	4,986,675	
3	ThermWise Business Rebates	656	939,227	1,060	2,234	71,820	1,684,501	2,094,546	
4	ThermWise Home Energy Plan	651	134,815	1,295	3,163	17,198	280,202	919,840	
5	ThermWise Weatherization Rebates	4,281	907,982	9,725	37,223	39,079	2,144,938	9,947,770	
6	ThermWise Business Custom Rebates	13	73,046	13	15	1,908	119,634	498,000	
7	Market Transformation	N/A	480,345	N/A	N/A	N/A	931,630	1,424,200	
8	ThermWise Energy Comparison Report	57,500	18,922	115,000	230,000	87,400	136,241	410,000	
9	Low Income Efficiency Program	248	70,575	473	1,770	4,096	386,253	889,817	
10	Programs Total **	16,858	5,606,699	34,787	80,951	392,434	11,364,579	26,729,447	
11	DSM Interest	N/A	(49,313)	N/A	N/A	N/A	(91,817)	N/A	
12	DSM Amortization	N/A	(3,492,346)	N/A	N/A	N/A	(15,008,264)	N/A	
13	DSM General Administration	-	-	N/A	N/A	N/A	-	N/A	
14	2016 TOTAL	16,858	\$ 2,065,040	34,787	80,951	392,434	\$ (3,735,503)	\$ 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
ThermiSense Appliance Rebate Program - Utah Programs
As of June 30, 2016

Line#	Program	2nd Quarter 2016		Total 2016				
		Participants	Costs	Actual Participants	Estimated Participants	Dth Savings*	Actual Costs	Budget
1	92% Efficient Furnace	6	\$ 1,200	27	63	359	\$ 5,400	\$ 12,600
2	95% Efficient Furnace	631	220,850	1,570	2,929	25,748	548,500	1,025,150
3	95% Efficient Furnace with ECM	945	378,000	2,194	4,464	35,982	877,600	1,785,600
4	98% Efficient Furnace with ECM	195	88,200	333	350	5,808	149,850	157,500
5	2.6 MEF Washer	86	4,300	1,091	-	1,519	54,550	-
6	2.7 MEF Washer	763	38,150	1,281	6,773	1,231	63,050	338,650
7	Gas Water Heater - Tier 1	15	750	312	-	427	15,600	-
8	Gas Water Heater - Tier 2	9	900	81	-	257	8,100	-
9	Gas Water Heater - Tier 2	156	15,600	234	761	635	23,400	76,100
10	Condensing Gas Water Heater	2	700	16	-	118	5,600	-
11	Condensing Gas Water Heater	11	3,850	15	50	104	5,250	17,500
12	Hybrid Gas Water Heater	1	350	1	-	8	350	-
13	Hybrid Gas Water Heater	1	350	1	10	7	350	3,500
14	Boilers Tier 1	9	3,600	17	40	254	6,800	16,000
15	Boilers Tier 2	11	6,600	31	76	625	18,600	45,600
16	Solar Assisted Water Heater (domestic)	2	1,500	2	10	28	1,500	7,500
17	Solar Assisted Water Heater (pool)	2	1,500	3	10	165	2,250	7,500
18	Tankless Gas Water Heater (tier 1)	4	1,200	11	-	77	3,300	-
19	Tankless Gas Water Heater (tier 2)	10	3,500	103	-	791	36,050	-
20	Tankless Gas Water Heater (tier 1)	7	2,100	10	83	88	3,000	24,900
21	Tankless Gas Water Heater (tier 2)	160	56,000	243	691	1,822	85,050	241,850
22	Direct Vent Gas Fireplace	91	18,200	236	243	2,039	47,200	48,600
23	Smart Thermostat (appliance)	1,722	172,200	4,338	4,517	29,845	433,800	451,700
24	92% Efficient Furnace	-	-	-	5	-	-	1,000
25	95% Efficient Furnace	14	4,900	68	70	354	23,800	24,500
26	95% Efficient Furnace with ECM	34	13,600	63	30	328	25,200	12,000
27	98% Efficient Furnace with ECM	-	-	-	5	-	-	2,250
28	2.6 MEF Washer	5	250	5	15	5	250	750
29	Gas Water Heater - Tier 2	-	-	-	5	-	-	500
30	Solar Assisted Water Heater (domestic)	-	-	-	5	-	-	3,750
31	Solar Assisted Water Heater (pool)	-	-	-	5	-	-	3,750
32	Condensing Gas Water Heater	-	-	-	5	-	-	1,750
33	Hybrid Gas Water Heater	-	-	-	5	-	-	1,750
34	Boilers Tier 1	-	-	-	5	-	-	2,000
35	Boilers Tier 2	-	-	1	5	13	600	3,000
36	Direct Vent Gas Fireplace	-	-	-	5	-	-	1,000
37	Smart Thermostat (existing multifamily)	8	800	23	28	74	2,300	2,900
38	Tankless Gas Water Heater (tier 1)	-	-	8	-	56	2,400	-
39	Tankless Gas Water Heater (tier 2)	-	-	1	-	8	350	-
40	Tankless Gas Water Heater (tier 1)	-	-	-	5	-	-	1,500
41	Tankless Gas Water Heater (tier 2)	-	-	1	3	5	350	1,050
42	Administrative & Overheads	N/A	234,675	N/A	N/A	N/A	451,093	1,235,000
43	Total	4,901	\$ 1,273,825	12,300	21,271	108,658	\$ 2,902,493	\$ 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 June 30, 2016

Line #	Program	2nd Quarter 2016		Total 2016				Actual Cost	Budget
		Participants	Costs	Actual Participants	Estimated Participants	Dth Savings*			
1	Energy Star 3.0	481	\$ 14,400	84	550	1,257	\$ 25,200	\$ 165,000	
2	High Performance Homes	6	3,000	9	89	225	4,500	44,500	
3	92% Efficient Furnace	17	3,400	57	279	432	11,400	55,800	
4	95% Efficient Furnace	1,349	472,150	2,340	3,000	20,966	819,000	1,050,000	
5	95% Efficient Furnace with ECM	282	100,800	333	805	2,984	133,200	322,000	
6	98% Efficient Furnace with ECM	3	1,350	5	5	2,250	2,250	2,250	
7	Tier 1 Storage Water Heater	234	11,700	522	-	714	26,100	-	
8	67 EF Storage Water Heater	100	10,000	183	-	580	18,300	-	
9	67 EF Storage Water Heater	28	2,800	29	461	66	2,900	46,100	
10	Tankless Water Heater Tier 1	1	300	1	-	9	300	-	
11	Tankless Water Heater Tier 2	18	6,300	26	-	250	9,100	-	
12	Tankless Water Heater	-	-	-	12	-	-	3,500	
13	Tankless Water Heater Tier 2	9	3,150	11	204	94	3,850	71,400	
14	Condensing Gas Water Heater	-	-	-	5	-	-	1,750	
15	Hybrid Gas Water Heater	1	350	1	5	7	350	1,750	
16	Gas Boiler Rebates Paid - Tier 1	2	800	3	8	29	1,200	3,200	
17	Gas Boiler Rebates Paid - Tier 2	8	4,800	18	18	232	10,800	10,800	
18	Solar Assisted Water Heater - domestic	1	750	1	5	14	750	3,750	
19	Solar Assisted Water Heater - pool	-	-	-	5	-	-	3,750	
20	2x6 Walls	613	214,550	1,015	1,850	10,394	355,250	647,500	
21	R-5 Window	115	3,855	146	58	44	4,774	36,250	
22	Smart Thermostat (builder)	9	900	27	30	93	2,700	3,000	
23	HERS- 10% better than code (builder)	333	66,600	427	1,620	4,543	85,400	324,000	
24	Energy Star 3.0 - MF	363	72,600	363	656	2,585	72,600	131,200	
25	High Performance Homes - MF	-	-	-	18	-	-	5,400	
26	92% Efficient Furnace - MF	302	60,400	645	105	2,890	129,000	21,000	
27	95% Efficient Furnace - MF	1,025	358,750	1,538	2,494	7,998	538,300	869,400	
28	95% Efficient Furnace with ECM - MF	-	-	-	52	-	-	20,800	
29	98% Efficient Furnace with ECM - MF	-	-	-	5	-	-	2,250	
30	Tier 1 Storage Water Heater - MF	392	19,600	666	-	911	33,300	-	
31	67 EF Storage Water Heater - MF	62	6,200	98	-	310	9,800	-	
32	67 EF Storage Water Heater - MF	45	4,500	49	661	54	4,900	66,100	
33	Tankless Water Heater - MF	-	-	-	5	-	-	1,500	
34	Tankless Water Heater Tier 2 - MF	-	-	-	73	-	-	25,550	
35	Tankless Water Heater Tier 2 - MF	98	34,300	98	-	157	34,300	-	
36	Condensing Gas Water Heater - MF	-	-	50	-	216	17,500	-	
37	Hybrid Gas Water Heater - MF	-	-	-	5	-	-	1,750	
38	Hybrid Gas Water Heater - MF	-	-	-	5	-	-	1,750	
39	Boilers Tier 1 - MF	-	-	-	5	-	-	2,000	
40	Boilers Tier 2 - MF	-	-	2	5	26	1,200	3,000	
41	Solar Assisted Water Heater - domestic MF	-	-	-	5	-	-	3,750	
42	Solar Assisted Water Heater - pool MF	-	-	-	5	-	-	3,750	
43	2x6 Walls - MF	555	83,250	1,054	1,375	3,373	158,100	206,250	
44	R-5 Window	-	-	-	5	-	-	3,125	
45	Smart Thermostat (new multifamily)	-	-	-	5	-	-	500	
46	HERS- 10% better than code (new multifamily)	119	11,900	120	792	773	12,000	79,200	
47	Administrative & Overheads	N/A	134,305	N/A	N/A	N/A	250,363	742,000	
48	Total	6,108	\$ 1,707,961	9,921	15,275	62,275	\$ 2,778,687	\$ 4,986,675	

Savings reflect 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 June 30, 2016

Line #	Program	2nd Quarter 2016		Actual			Estimated			Total 2016		Actual Costs	Budget
		Participants	Costs	Participants	Participants	Participants	Savings*	Dth	Savings*	Costs			
1	92% Efficient Furnace	-	-	-	-	-	-	-	-	-	-	-	600
2	95% Efficient Furnace	43	15,050	104	300	3	1,506	36,400	105,000	36,400	105,000	105,000	600
3	95% Efficient Furnace with ECM	15	6,000	54	200	2	782	21,600	80,000	21,600	80,000	80,000	900
4	98% Efficient Furnace with ECM	-	-	2	900	2	291	300	900	291	300	900	900
5	Gas Storage Water Heater - Tier 2 <75kBTU .67	-	-	3	-	3	7	300	-	7	300	-	-
6	Gas Storage Water Heater - Tier 2 <75kBTU .67	1	(798)	12	-	-	560	7,990	-	560	7,990	-	-
7	Gas Storage Water Heater - Tier 2 <75kBTU .67	-	-	-	-	-	-	-	100	-	-	100	-
8	Gas Storage Water Heater - Tier 2 <75kBTU .67	1	600	2	25	1	116	1,000	19,750	116	1,000	19,750	2
9	High Efficiency Gas Water Heater - Tankless <200kBTU	3	1,196	23	1	1	646	9,166	2	646	9,166	2	2
10	High Efficiency Gas Water Heater - Tankless <200kBTU	-	-	-	-	-	-	-	1,020	-	-	1,020	-
11	Condensing Gas Water Heater	-	-	-	1	1	-	-	350	-	-	350	-
12	Hybrid Gas Water Heater	-	-	1	1	1	8	350	350	8	350	350	350
13	Combined Space / Water Heater (business)	-	-	-	1	1	-	-	450	-	-	450	-
14	2.6 MEF Washer	-	-	-	1	1	-	-	50	-	-	50	-
15	Commercial Clothes Washer	-	-	1	1	1	2	75	75	2	75	75	75
16	Boiler Reset Control	-	-	-	2	2	-	-	500	-	-	500	-
17	Boiler Tune-up Tier 1	33	3,300	39	50	5	306	3,900	5,000	306	3,900	5,000	5,000
18	Boiler Tune-up Tier 2	36	10,800	43	126	4	1,681	12,900	18,750	1,681	12,900	18,750	18,750
19	Boiler Tune-up Tier 3	101	65,227	111	-	-	23,008	82,173	-	23,008	82,173	-	-
20	Boiler Tune-up Tier 3	4	13,200	4	75	75	3,696	13,200	18,750	3,696	13,200	18,750	18,750
21	Low Flow Pre-riase Spray Valve	2	50	11	-	-	296	275	-	296	275	-	-
22	Low Flow Pre-riase Spray Valve	-	-	-	1,000	1,000	-	-	32,000	-	-	32,000	-
23	Smart Thermostat (business)	11	1,100	27	100	1	216	2,700	10,000	216	2,700	10,000	10,000
24	Direct Contact Water Heater	-	-	-	1	1	-	-	298	-	-	298	-
25	High Efficiency Boiler Hot Water Tier 1	4	21,000	5	7	7	1,539	21,424	20,216	1,539	21,424	20,216	20,216
26	High Efficiency Boiler Hot Water Tier 2	5	16,250	5	40	40	1,357	16,250	338,000	1,357	16,250	338,000	338,000
27	Boiler Hot Water ≥ 2,500,000 Btu/h (business)	6	23,390	13	1	1	6,049	90,340	9,750	6,049	90,340	9,750	9,750
28	High Efficiency Boiler Steam Tier 1	-	-	-	1	1	-	-	4,140	-	-	4,140	-
29	Boiler Steam (Except Natural Draft) ≥ 300,000 Btu/h (business)	-	-	1	1	1	454	10,310	10,806	454	10,310	10,806	10,806
30	Boiler Steam (Natural Draft) ≥ 300,000 Btu/h (business)	-	-	1	1	1	741	10,310	10,806	741	10,310	10,806	10,806
31	Gas Unit Heater Non-Condensing	2	438	8	1	1	64	1,813	30	64	1,813	30	30
32	Gas Unit Heater Non-Condensing	2	3,720	2	5	5	84	3,720	8,100	84	3,720	8,100	8,100
33	Infrared Heating System	316	235,915	340	50	50	19,299	250,593	36,250	19,299	250,593	36,250	36,250
34	Modulating Infrared Heaters (NIC or Replacing Non-IR) (business)	-	-	-	1	1	-	-	1,088	-	-	1,088	-
35	Modulating Infrared Heaters (Replacing Non-IR) (business)	-	-	-	1	1	-	-	290	-	-	290	-
36	Condensing RTU's (business)	-	-	-	1	1	-	-	1,875	-	-	1,875	-
37	High Efficiency Gas Combo Oven	-	-	-	4	4	-	-	4,000	-	-	4,000	-
38	Energy Star Gas Commercial Fryer	10	5,000	28	25	25	905	14,000	12,500	905	14,000	12,500	12,500
39	High Efficiency Gas Convection Oven	4	2,000	6	8	8	78	3,000	4,000	78	3,000	4,000	4,000
40	High Efficiency Gas Griddle	1	300	2	8	8	14	600	2,400	14	600	2,400	2,400
41	Energy Star Gas Steam Cooker	-	-	-	1	1	-	-	1,000	-	-	1,000	-
42	Attic Insulation (new construction)	2	1,711	4	3	3	93	3,573	4,800	93	3,573	4,800	4,800
43	Attic Insulation (retrofit)	49	117,562	200	150	150	8,216	530,035	356,000	8,216	530,035	356,000	356,000
44	Wall Insulation (new construction)	3	1,442	4	5	5	24	1,490	1,575	24	1,490	1,575	1,575
45	Wall Insulation (retrofit)	2	1,279	4	2	2	47	1,939	2,400	47	1,939	2,400	2,400
46	High Efficiency Charbroiler	-	-	-	5	5	-	-	5,000	-	-	5,000	-
47	Conveyor Oven	-	-	-	8	8	-	-	8,000	-	-	8,000	-
48	Gas Dryer Moisture Sensor	-	-	-	10	10	-	-	250	-	-	250	-
49	Modulating Gas Dryer	-	-	-	1	1	-	-	75	-	-	75	-
50	Solar Assisted Water Heater - Pool - Business	-	-	-	3	3	-	-	2,250	-	-	2,250	-
51	Administrative & Overheads	N/A	393,466	N/A	N/A	N/A	N/A	632,186	975,000	N/A	632,186	975,000	975,000
52	Total	656	939,227	1,060	2,234	2,234	71,820	1,684,501	2,094,546	71,820	1,684,501	2,094,546	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 June 30, 2016

Line #	Program	2nd Quarter 2016		Total 2016					
		Actual Participants**	Costs	Plans / Participants**	Efficiency Items**	Estimated Participants	Dth Savings*	Actual Costs	Budget
1	THERMWISE HOME ENERGY PLAN								
2	Efficiency Measures	651	\$ 2,586	1,295	9,463	3,163	17,198	\$ 11,006	\$ 65,840
3	Administrative & Overheads	N/A	132,230	N/A	N/A	N/A	N/A	269,196	854,000
4	Total	651	\$ 134,815	1,295	9,463	3,163	17,198	\$ 280,202	\$ 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 June 30, 2016

Line #	Program	2nd Quarter 2016		Total 2016					
		Participants	Costs	Actual Participants	Estimated Participants	Dth Savings*	Actual Costs	Budget	
1	Attic Insulation Tier 1 - .25 per sq. ft	602	\$ 203,684	1,914	14,000	11,282	\$ 665,203	\$ 4,539,500	
2	Attic Insulation Tier 2	347	30,168	903	4,000	1,191	80,140	378,000	
3	Floor Insulation	55	10,570	122	280	644	23,665	44,703	
4	Wall Insulation	158	42,833	349	870	1,401	99,158	224,273	
5	Windows	12	150	29	-	100	2,885	-	
6	R-5 Windows	1,334	51,201	2,822	450	2,405	107,681	17,237	
7	Duct Sealing & Insulation	725	227,926	1,348	3,000	14,537	426,898	1,257,692	
8	Air Sealing	52	25,475	87	400	681	42,588	210,698	
9	Attic Insulation Tier 1 (multifamily) - .25 per sq. ft	409	48,135	1,272	4,800	3,217	189,693	1,187,227	
10	Attic Insulation (multifamily) Tier 2	199	12,751	394	3,600	354	23,834	243,281	
11	Floor Insulation (multifamily)	-	-	-	20	-	-	364	
12	Wall Insulation (multifamily)	-	-	-	3	-	-	306	
13	Windows - R-5 (multifamily)	-	-	5	-	195	8,714	-	
14	Duct Sealing & Insulation (multifamily)	388	73,811	480	5,800	3,072	88,261	1,008,489	
15	Administrative & Overheads	N/A	181,279	N/A	N/A	N/A	386,216	836,000	
16	Total	4,281	\$ 907,982	9,725	37,223	39,079	\$ 2,144,938	\$ 9,947,770	

*Savings reflects the net Dth deemed savings based on actual participants with an 50% net-to-gross ratio applied.

Questar Gas Company
ThermWise Business Custom Rebates Program - Utah Programs
 As of June 30, 2016

Line #	Program	2nd Quarter 2016		Total 2016				
		Participants	Costs	Actual Participants	Estimated Participants	Dth Savings*	Actual Costs	Budget
1	Business Custom Rebates	13	\$ 19,083	13	15	1,908	\$ 19,083	\$ 60,000
2	Administrative & Overheads	N/A	53,963	-	N/A	N/A	100,551	438,000
3	Total	13	\$ 73,046	13	15	1,908	\$ 119,634	\$ 498,000

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

Questar Gas Company
 Market Transformation - Utah Programs
 As of June 30, 2016

Line #	Program	2nd Quarter 2016		Total 2016		Actual Costs	Budget
		Actual Participants	Actual Costs	Actual Participants	Estimated Participants		
1	Market Transformation Total	N/A	\$ 480,345	N/A	N/A	\$ 931,630	\$ 1,424,200

Questar Gas Company
ThermWise Energy Comparison Report - Utah Programs
As of June 30, 2016

Line #	Program	2nd Quarter 2016		Total 2016				
		Actual Participants	Costs	Actual Participants	Estimated Participants	Dth Savings	Actual Costs	Budget
1	Energy Comparison Report Total	57,500	\$ 18,922	115,000	230,000	87,400	\$ 138,241	\$ 410,000

Questar Gas Company
 Low Income Efficiency Program - Utah Programs
 As of June 30, 2016

Line #	Program	2nd Quarter 2016		Total 2016				
		Actual Participants	Actual Costs	Actual Participants	Estimated Participants	Dth Savings	Actual Costs	Budget
1	95% Efficient Furnace	30	\$ 10,500	72	190	1,476	\$ 25,200	\$ 66,500
2	95% Efficient Furnace with ECM	14	5,600	24	38	492	9,600	15,200
3	98% Efficient Furnace with ECM	-	-	-	8	-	-	3,200
4	Gas Water Heater - Tier 2	1	100	8	38	32	800	3,800
5	Attic Insulation - Tier 1	67	14,693	115	260	533	25,133	82,628
6	Attic Insulation Tier 2	17	308	27	180	9	472	17,547
7	Floor Insulation	16	2,384	37	80	182	5,350	17,040
8	Wall Insulation	23	5,517	36	76	150	8,505	22,433
9	Duct Sealing & Insulation	1	450	6	70	81	2,070	30,590
10	Air Sealing	79	30,035	148	320	1,142	57,077	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	-	-	-	500	-	250,000	500,000
14	Administrative & Overheads	N/A	988	N/A	N/A	N/A	2,045	35,000
15	Total	248	\$ 70,575	473	1,770	4,096	\$ 386,253	\$ 889,817