



**Questar Gas Company**

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**Barrie L. McKay**

Vice President Regulatory Affairs

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July 21, 2016  
Chris Parker  
Utah Department of Commerce  
Division of Public Utilities  
SM Box 146751  
Salt Lake City, UT 84114-6751

Dear Chris:

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

Barrie L. McKay

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

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

Line #	Program	1st Quarter 2016			Total 2016			
		Actual		Participants	Estimated Participants	Dth Savings*	Actual Costs	Budget
		Participants	Costs					
1	ThermWise Appliance Rebates	7,399	\$ 1,628,667	7,399	21,271	63,176	\$ 1,628,667	\$ 5,558,600
2	ThermWise Builder Rebates	3,813	1,070,727	3,813	15,275	23,163	1,070,727	4,986,675
3	ThermWise Business Rebates	404	745,274	404	2,234	22,112	745,274	2,094,546
4	ThermWise Home Energy Plan	644	145,387	644	3,163	9,968	145,387	919,840
5	ThermWise Weatherization Rebates	5,444	1,236,956	5,444	37,223	21,420	1,236,956	9,947,770
6	ThermWise Business Custom Rebates	-	46,587	-	15	-	46,587	498,000
7	Market Transformation	N/A	451,284	N/A	N/A	N/A	451,284	1,424,200
8	ThermWise Energy Comparison Report	57,500	117,320	57,500	230,000	43,700	117,320	410,000
9	Low Income Efficiency Program	225	315,677	225	1,770	2,083	315,677	889,817
10	<b>Programs Total **</b>	<b>17,929</b>	<b>5,757,880</b>	<b>17,929</b>	<b>80,951</b>	<b>185,623</b>	<b>5,757,880</b>	<b>26,729,447</b>
11	DSM Interest	N/A	(42,504)	N/A	N/A	N/A	(42,504)	N/A
12	DSM Amortization	N/A	(11,515,919)	N/A	N/A	N/A	(11,515,919)	N/A
13	DSM General Administration	-	-	N/A	N/A	N/A	-	N/A
14	<b>2016 TOTAL</b>	<b>17,929</b>	<b>\$ (5,800,543)</b>	<b>17,929</b>	<b>80,951</b>	<b>185,623</b>	<b>\$ (5,800,543)</b>	<b>\$ 26,729,447</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.

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

Line#	Program	1st Quarter 2016		Total 2016					
		Participants	Actual Costs	Actual Participants	Estimated Participants	Dth Savings*	Actual Costs	Budget	
1	92% Efficient Furnace	21	\$ 4,200	21	63	279	\$ 4,200	\$ 12,600	
2	95% Efficient Furnace	939	328,650	939	2,929	15,400	328,650	1,025,150	
3	95% Efficient Furnace with ECM	1,249	499,600	1,249	4,464	20,484	499,600	1,785,600	
4	98% Efficient Furnace with ECM	137	61,650	137	350	2,389	61,650	157,500	
5	2.6 MEF Washer	1,005	50,250	1,005	-	1,399	50,250	-	
6	2.7 MEF Washer	498	24,900	498	6,773	486	24,900	338,650	
7	Gas Water Heater - Tier 1	297	14,850	297	-	406	14,850	-	
8	Gas Water Heater - Tier 2	72	7,200	72	-	228	7,200	-	
9	Gas Water Heater - Tier 2	78	7,800	78	761	178	7,800	76,100	
10	Condensing Gas Water Heater	14	4,900	14	-	103	4,900	-	
11	Condensing Gas Water Heater	4	1,400	4	50	28	1,400	17,500	
12	Hybrid Gas Water Heater	-	-	-	10	-	-	3,500	
13	Boilers Tier 1	8	3,200	8	40	120	3,200	16,000	
14	Boilers Tier 2	20	12,000	20	76	403	12,000	45,600	
15	Solar Assisted Water Heater (domestic)	-	-	-	10	-	-	7,500	
16	Solar Assisted Water Heater (pool)	1	750	1	10	55	750	7,500	
17	Tankless Gas Water Heater (tier 1)	7	2,100	7	-	49	2,100	-	
18	Tankless Gas Water Heater (tier 2)	93	32,550	93	-	714	32,550	-	
19	Tankless Gas Water Heater (tier 1)	3	900	3	83	21	900	24,900	
20	Tankless Gas Water Heater (tier 2)	83	29,050	83	691	622	29,050	241,850	
21	Direct Vent Gas Fireplace	145	29,000	145	243	1,253	29,000	48,600	
22	Smart Thermostat (appliance)	2,616	261,600	2,616	4,517	17,998	261,600	451,700	
23	92% Efficient Furnace	-	-	-	5	-	-	1,000	
24	95% Efficient Furnace	54	18,900	54	70	281	18,900	24,500	
25	95% Efficient Furnace with ECM	29	11,600	29	30	151	11,600	12,000	
26	98% Efficient Furnace with ECM	-	-	-	5	-	-	2,250	
27	2.6 MEF Washer	-	-	-	15	-	-	750	
28	Gas Water Heater - Tier 2	-	-	-	5	-	-	500	
29	Solar Assisted Water Heater (domestic)	-	-	-	5	-	-	3,750	
30	Solar Assisted Water Heater (pool)	-	-	-	5	-	-	3,750	
31	Condensing Gas Water Heater	-	-	-	5	-	-	1,750	
32	Hybrid Gas Water Heater	-	-	-	5	-	-	1,750	
33	Boilers Tier 1	-	-	-	5	-	-	2,000	
34	Boilers Tier 2	1	600	1	5	13	600	3,000	
35	Direct Vent Gas Fireplace	-	-	-	5	-	-	1,000	
36	Smart Thermostat (existing multifamily)	15	1,500	15	28	48	1,500	2,800	
37	Tankless Gas Water Heater (tier 1)	8	2,400	8	-	56	2,400	-	
38	Tankless Gas Water Heater (tier 2)	1	350	1	-	8	350	-	
39	Tankless Gas Water Heater (tier 1)	-	-	-	5	-	-	1,500	
40	Tankless Gas Water Heater (tier 2)	1	350	1	3	5	350	1,050	
41	Administrative & Overheads	N/A	216,417	N/A	N/A	N/A	216,417	1,235,000	
42	<b>Total</b>	<b>7,399</b>	<b>\$ 1,628,667</b>	<b>7,399</b>	<b>21,271</b>	<b>63,176</b>	<b>\$ 1,628,667</b>	<b>\$ 5,558,600</b>	

\*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 March 31, 2016

Line #	Program	1st Quarter 2016		Total 2016				
		Actual Participants	Actual Costs	Actual Participants	Estimated Participants	Dth Savings*	Actual Costs	Budget
1	Energy Star 3.0	36	\$ 10,800	36	550	539	\$ 10,800	\$ 165,000
2	High Performance Homes	3	1,500	3	89	75	1,500	44,500
3	92% Efficient Furnace	40	8,000	40	279	303	8,000	55,800
4	95% Efficient Furnace	991	346,850	991	3,000	8,879	346,850	1,050,000
5	95% Efficient Furnace with ECM	81	32,400	81	805	726	32,400	322,000
6	98% Efficient Furnace with ECM	2	900	2	5	20	900	2,250
7	Tier 1 Storage Water Heater	288	14,400	288	-	394	14,400	-
8	.67 EF Storage Water Heater	83	8,300	83	-	263	8,300	-
9	.67 EF Storage Water Heater	1	100	1	461	2	100	46,100
10	Tankless Water Heater Tier 2	8	2,800	8	-	77	2,800	-
11	Tankless Water Heater	-	-	-	12	-	-	3,600
12	Tankless Water Heater Tier 2	2	700	2	204	17	700	71,400
13	Condensing Gas Water Heater	-	-	-	5	-	-	1,750
14	Hybrid Gas Water Heater	-	-	-	5	-	-	1,750
15	Gas Boiler Rebates Paid - Tier 1	1	400	1	8	10	400	3,200
16	Gas Boiler Rebates Paid - Tier 2	10	6,000	10	18	129	6,000	10,800
17	Solar Assisted Water Heater - domestic	-	-	-	5	-	-	3,750
18	Solar Assisted Water Heater - pool	-	-	-	5	-	-	3,750
19	2x6 Walls	402	140,700	402	1,850	4,116	140,700	647,500
20	R-5 Window	31	919	31	58	9	919	36,250
21	Smart Thermostat (builder)	18	1,800	18	30	62	1,800	3,000
22	HERS- 10% better than code (builder)	94	18,800	94	1,620	1,000	18,800	324,000
23	Energy Star 3.0 - MF	-	-	-	656	-	-	131,200
24	High Performance Homes - MF	-	-	-	18	-	-	5,400
25	92% Efficient Furnace - MF	343	68,600	343	105	1,537	68,600	21,000
26	95% Efficient Furnace - MF	513	179,550	513	2,484	2,668	179,550	869,400
27	95% Efficient Furnace with ECM - MF	-	-	-	52	-	-	20,800
28	98% Efficient Furnace with ECM - MF	-	-	-	5	-	-	2,250
29	Tier 1 Storage Water Heater - MF	274	13,700	274	-	375	13,700	-
30	.67 EF Storage Water Heater - MF	36	3,600	36	-	114	3,600	-
31	.67 EF Storage Water Heater - MF	4	400	4	661	4	400	66,100
32	Tankless Water Heater - MF	-	-	-	5	-	-	1,500
33	Tankless Water Heater Tier 2 - MF	-	-	-	73	-	-	25,550
34	Condensing Gas Water Heater - MF	50	17,500	50	-	216	17,500	-
35	Condensing Gas Water Heater - MF	-	-	-	5	-	-	1,750
36	Hybrid Gas Water Heater - MF	-	-	-	5	-	-	1,750
37	Boilers Tier 1 - MF	-	-	-	5	-	-	2,000
38	Boilers Tier 2 - MF	2	1,200	2	5	26	1,200	3,000
39	Solar Assisted Water Heater - domestic MF	-	-	-	5	-	-	3,750
40	Solar Assisted Water Heater - pool MF	-	-	-	5	-	-	3,750
41	2x6 Walls - MF	499	74,850	499	1,375	1,597	74,850	206,250
42	R-5 Window	-	-	-	5	-	-	3,125
43	Smart Thermostat (new multifamily)	-	-	-	5	-	-	500
44	HERS- 10% better than code (new multifamily)	1	100	1	792	6	100	79,200
45	Administrative & Overheads	N/A	115,858	N/A	N/A	N/A	115,858	742,000
46	<b>Total</b>	<b>3,813</b>	<b>\$ 1,070,727</b>	<b>3,813</b>	<b>15,275</b>	<b>23,163</b>	<b>\$ 1,070,727</b>	<b>\$ 4,986,675</b>

\*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 March 31, 2016

Line #	Program	1st Quarter 2016			Total 2016			Actual Costs	Budget
		Participants	Actual Costs	Actual Participants	Estimated Participants	Dth Savings*			
1	92% Efficient Furnace	61	21,350	61	300	863	21,350	105,000	
2	95% Efficient Furnace	39	15,600	39	200	565	15,600	80,000	
3	95% Efficient Furnace with ECM	2	900	2	2	29	900	900	
4	96% Efficient Furnace with ECM	3	300	3	-	7	300	-	
5	Gas Storage Water Heater - Tier 2 <75kBtu .67	11	8,788	11	-	615	8,788	100	
6	Gas Storage Water Heater >75kBtu	-	-	-	-	-	-	-	
7	Gas Storage Water Heater - Tier 2 <75kBtu .67	1	400	1	25	46	400	19,750	
8	Gas Storage Water Heater >75kBtu	20	7,960	20	1	561	7,960	2	
9	High Efficiency Gas Water Heater - Tankless <200kBtu	-	-	-	-	-	-	-	
10	High Efficiency Gas Water Heater - Tankless >200kBtu	-	-	-	-	-	-	-	
11	Condensing Gas Water Heater	1	350	1	1	8	350	350	
12	Hybrid Gas Water Heater	-	-	-	-	-	-	-	
13	Combined Space / Water Heater (business)	-	-	-	-	-	-	-	
14	2.6 MEF Washer	1	75	1	1	2	75	50	
15	Commercial Clothes Washer	-	-	-	2	-	-	500	
16	Boiler Reset Control	6	600	6	50	47	600	5,000	
17	Boiler Tune-up Tier 1	7	2,100	7	125	274	2,100	18,750	
18	Boiler Tune-up Tier 2	10	16,946	10	-	4,745	16,946	-	
19	Boiler Tune-up Tier 3	-	-	-	75	-	-	18,750	
20	Boiler Tune-up Tier 3	9	225	9	-	242	225	-	
21	Low Flow Pre-rinse Spray Valve	-	-	-	1,000	-	-	32,000	
22	Low Flow Pre-rinse Spray Valve	16	1,600	16	100	128	1,600	10,000	
23	Smart Thermostat (business)	-	-	-	-	-	-	-	
24	Direct Contact Water Heater	1	424	1	7	30	424	298	
25	High Efficiency Boiler Hot Water Tier 1	-	-	-	40	-	-	-	
26	High Efficiency Boiler Hot Water Tier 2	7	66,950	7	1	4,483	66,950	9,750	
27	Boiler Hot Water ≥ 2,500,000 Btu/h (business)	-	-	-	-	-	-	4,140	
28	High Efficiency Boiler Steam Tier 1	-	-	-	1	-	-	10,806	
29	Boiler Steam (Except Natural Draft) ≥ 300,000 Btu/h (business)	1	10,310	1	1	454	10,310	10,806	
30	Boiler Steam (Natural Draft) ≥ 300,000 Btu/h (business)	6	1,375	6	1	741	1,375	30	
31	Gas Unit Heater Non-Condensing	-	-	-	5	-	-	8,100	
32	Gas Unit Heater Condensing	24	14,678	24	50	1,130	14,678	36,250	
33	Infrared Heating System	-	-	-	1	-	-	1,088	
34	Modulating Infrared Heaters (NC or Replacing Non-IR) (business)	-	-	-	1	-	-	290	
35	Modulating Infrared Heaters (Replacing Non-IR) (business)	-	-	-	1	-	-	1,875	
36	Condensing RTU's (business)	-	-	-	4	-	-	4,000	
37	High Efficiency Gas Combo Oven	18	9,000	18	25	592	9,000	12,500	
38	Energy Star Gas Commercial Fryer	2	1,000	2	8	26	1,000	4,000	
39	High Efficiency Gas Convection Oven	1	300	1	8	7	300	2,400	
40	High Efficiency Gas Griddle	-	-	-	1	-	-	1,000	
41	Energy Star Gas Steam Cooker	2	1,862	2	3	48	1,862	4,800	
42	Attic Insulation (new construction)	151	412,473	151	150	6,393	412,473	336,000	
43	Attic Insulation (retrofit)	1	48	1	5	1	48	1,575	
44	Wall Insulation (new construction)	2	660	2	2	16	660	2,400	
45	Wall Insulation (retrofit)	-	-	-	5	-	-	5,000	
46	High Efficiency Chatbroiler	-	-	-	8	-	-	8,000	
47	Conveyor Oven	-	-	-	10	-	-	250	
48	Gas Dryer Moisture Sensor	-	-	-	1	-	-	75	
49	Modulating Gas Driver	-	-	-	3	-	-	2,250	
50	Solar Assisted Water Heater- Pool Business	N/A	138,691	N/A	N/A	N/A	138,691	975,000	
51	Administrative & Overheads	404	745,274	404	2,234	22,112	745,274	2,094,546	
52	Total								

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

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

Line #	Program	1st Quarter 2016		Total 2016						
		Participants**	Actual Costs	Participants**	Plans / Participants**	Efficiency Items**	Estimated Participants	Dth Savings*	Actual Costs	Budget
1	THERMWISE HOME ENERGY PLAN	644	\$ 8,421	644	644	5,340	3,163	9,968	8,421	\$ 65,840
2	Efficiency Measures	N/A	136,966	N/A	N/A	N/A	N/A	N/A	136,966	854,000
3	Administrative & Overheads	644	145,387	644	644	5,340	3,163	9,968	145,387	919,840
4	<b>Total</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.

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

Line #	Program	1st 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	1,312	\$ 461,519	1,312	14,000	7,827	\$ 461,519	\$ 4,539,500
2	Attic Insulation Tier 2	556	49,972	556	4,000	742	49,972	378,000
3	Floor Insulation	67	13,095	67	280	356	13,095	44,703
4	Wall Insulation	191	56,326	191	870	796	56,326	224,273
5	Windows	17	2,736	17	-	95	2,736	-
6	R-5 Windows	1,488	56,481	1,488	450	1,262	56,481	17,237
7	Duct Sealing & Insulation	623	198,972	623	3,000	6,718	198,972	1,257,692
8	Air Sealing	35	17,113	35	400	274	17,113	210,698
9	Attic Insulation Tier 1 (multifamily) - .25 per sq. ft	863	141,558	863	4,800	2,401	141,558	1,187,227
10	Attic Insulation (multifamily) Tier 2	195	11,083	195	3,600	165	11,083	243,281
11	Floor Insulation (multifamily)	-	-	-	20	-	-	364
12	Wall Insulation (multifamily)	-	-	-	3	-	-	306
13	Windows - R-5 (multifamily)	5	8,714	5	-	195	8,714	-
14	Duct Sealing & Insulation (multifamily)	92	14,450	92	5,800	589	14,450	1,008,489
15	Administrative & Overheads	N/A	204,937	N/A	N/A	N/A	204,937	836,000
16	<b>Total</b>	<b>5,444</b>	<b>\$ 1,236,956</b>	<b>5,444</b>	<b>37,223</b>	<b>21,420</b>	<b>\$ 1,236,956</b>	<b>\$ 9,947,770</b>

\*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 March 31, 2016**

Line #	Program	1st Quarter 2016		Total 2016				Budget
		Actual		Actual Participants	Estimated Participants	Dth Savings*	Actual Costs	
		Participants	Costs					
1	Business Custom Rebates	-	\$ -	-	15	-	\$ -	60,000
2	Administrative & Overheads	N/A	46,587	-	N/A	N/A	46,587	438,000
3	<b>Total</b>	-	<b>\$ 46,587</b>	-	<b>15</b>	-	<b>\$ 46,587</b>	<b>498,000</b>

\*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 March 31, 2016**

Line #	Program	1st Quarter 2016		Total 2016			
		Participants	Actual Costs	Actual Participants	Estimated Participants	Actual Costs	Budget
1	Market Transformation Total	N/A	\$ 451,284	N/A	N/A	\$ 451,284	\$ 1,424,200

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

Line #	Program	1st Quarter, 2016		Total 2016				
		Participants	Actual Costs	Actual Participants	Estimated Participants	Dth Savings	Actual Costs	Budget
1	Energy Comparison Report Total	57,500	\$ 117,320	57,500	230,000	43,700	\$ 117,320	\$ 410,000

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

Line #	Program	1st Quarter 2016		Total 2016					
		Actual		Actual Participants	Estimated Participants	Savings	Dth	Actual Costs	Budget
		Participants	Costs						
1	95% Efficient Furnace	42	\$ 14,700	42	190	861	\$	14,700	\$ 66,500
2	95% Efficient Furnace with ECM	10	4,000	10	38	205		4,000	15,200
3	98% Efficient Furnace with ECM	-	-	-	8	-		-	3,200
4	Gas Water Heater - Tier 2	7	700	7	38	28		700	3,800
5	Attic Insulation - Tier 1	48	10,440	48	260	221		10,440	82,628
6	Attic Insulation Tier 2	10	164	10	180	3		164	17,547
7	Floor Insulation	21	2,966	21	80	101		2,966	17,040
8	Wall Insulation	13	2,989	13	76	53		2,989	22,433
9	Duct Sealing & Insulation	5	1,620	5	70	71		1,620	30,590
10	Air Sealing	69	27,042	69	320	541		27,042	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	-	250,000	-	500	-		250,000	500,000
14	Administrative & Overheads	N/A	1,057	N/A	N/A	N/A		1,057	35,000
15	<b>Total</b>	<b>225</b>	<b>\$ 315,677</b>	<b>225</b>	<b>1,770</b>	<b>2,083</b>	<b>\$</b>	<b>315,677</b>	<b>\$ 889,817</b>