

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

Line #	Program	3rd Quarter 2016			Total 2016			
		Actual		Actual Participants	Estimated Participants	Dth Savings*	Actual Costs	Budget
		Participants	Costs					
1	ThermWise Appliance Rebates	5,701	\$ 1,357,319	18,001	21,281	159,048	\$ 4,259,811	\$ 5,558,600
2	ThermWise Builder Rebates	5,152	1,395,069	15,073	15,437	95,422	4,173,756	4,986,675
3	ThermWise Business Rebates	419	746,010	1,479	2,234	105,570	2,430,512	2,094,546
4	ThermWise Home Energy Plan	463	168,024	1,758	3,163	24,728	448,227	919,840
5	ThermWise Weatherization Rebates	3,909	731,666	13,634	37,223	52,900	2,876,604	9,947,770
6	ThermWise Business Custom Rebates	2	77,670	15	15	2,934	197,303	498,000
7	Market Transformation	N/A	119,470	N/A	N/A	N/A	1,051,100	1,424,200
8	ThermWise Energy Comparison Report	57,500	38,608	172,500	230,000	131,100	174,850	410,000
9	Low Income Efficiency Program	124	281,836	597	1,770	4,909	668,089	889,817
10	<b>Programs Total **</b>	<b>15,770</b>	<b>4,915,673</b>	<b>50,557</b>	<b>81,123</b>	<b>576,610</b>	<b>16,280,252</b>	<b>26,729,447</b>
11	DSM Interest	N/A	(392)	N/A	N/A	N/A	(92,209)	N/A
12	DSM Amortization	N/A	(1,638,170)	N/A	N/A	N/A	(16,646,434)	N/A
13	DSM General Administration	-	-	N/A	N/A	N/A	-	N/A
14	<b>2016 TOTAL</b>	<b>15,770</b>	<b>\$ 3,277,111</b>	<b>50,557</b>	<b>81,123</b>	<b>576,610</b>	<b>\$ (458,391)</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**  
**ThermiWise Appliance Rebate Program - Utah Programs**  
**As of September 30, 2016**

Line#	Program	3rd Quarter 2016			Total 2016				
		Participants	Actual Costs	Budget	Actual Participants	Estimated Participants	Dth Savings*	Actual Costs	Budget
1	92% Efficient Furnace	12	\$ 2,400	12,600	39	63	518	\$ 7,800	\$ 12,600
2	95% Efficient Furnace	509	178,150	1,025,150	2,079	2,929	34,096	727,650	1,025,150
3	95% Efficient Furnace with ECM	1,068	427,200	1,785,600	3,262	4,464	53,497	1,304,800	1,785,600
4	98% Efficient Furnace with ECM	225	101,250	157,500	558	350	9,732	251,100	157,500
5	2.6 MEF Washer	10	500	-	1,101	-	1,533	55,050	-
6	2.7 IMEF Washer	990	49,500	338,650	2,251	6,773	2,197	112,550	338,650
7	Gas Water Heater - Tier 1	3	150	-	315	-	431	15,750	-
8	Gas Water Heater - Tier 2	1	100	-	82	-	260	8,200	-
9	Gas Water Heater - Tier 2	122	12,200	76,100	366	761	815	35,600	76,100
10	Condensing Gas Water Heater	-	-	-	16	-	118	5,600	-
11	Condensing Gas Water Heater	8	2,800	17,500	23	50	180	8,050	17,500
12	Hybrid Gas Water Heater	1	350	-	2	10	16	700	-
13	Hybrid Gas Water Heater	-	-	-	1	10	7	350	3,500
14	Boilers Tier 1	-	-	-	17	40	254	6,800	16,000
15	Boilers Tier 2	6	3,600	45,600	37	76	746	22,200	45,600
16	Solar Assisted Water Heater (domestic)	-	-	-	2	10	28	1,500	7,500
17	Solar Assisted Water Heater (pool)	1	750	7,500	4	10	220	3,000	7,500
18	Tankless Gas Water Heater (tier 1)	-	-	-	11	-	77	3,300	-
19	Tankless Gas Water Heater (tier 2)	1	350	-	104	-	799	36,400	-
20	Tankless Gas Water Heater (tier 1)	9	2,700	24,900	19	83	130	5,700	24,900
21	Tankless Gas Water Heater (tier 2)	122	42,700	241,850	365	691	2,736	127,750	241,850
22	Direct Vent Gas Fireplace	50	10,000	48,600	286	243	2,471	57,200	48,600
23	Smart Thermostat (appliance)	2,533	253,300	451,700	6,871	4,517	47,272	687,100	451,700
24	92% Efficient Furnace	-	-	-	-	5	-	-	1,000
25	95% Efficient Furnace	4	1,400	24,500	72	70	374	25,200	24,500
26	95% Efficient Furnace with ECM	-	-	12,000	63	30	328	25,200	12,000
27	98% Efficient Furnace with ECM	-	-	-	-	5	-	-	2,250
28	2.6 MEF Washer	5	250	-	10	15	10	500	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)	20	2,000	2,800	43	28	138	4,300	2,800
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	350	700	2	3	10	700	1,050
42	Administrative & Overheads	N/A	265,319	1,235,000	N/A	N/A	N/A	716,411	1,235,000
43	<b>Total</b>	<b>5,701</b>	<b>\$ 1,357,319</b>	<b>\$ 5,558,600</b>	<b>18,001</b>	<b>21,281</b>	<b>159,048</b>	<b>\$ 4,259,811</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 September 30, 2016

Line #	Program	3rd Quarter 2016		Total 2016					Budget
		Participants	Costs	Actual Participants	Estimated Participants	Savings*	Dth	Actual Costs	
1	Energy Star 3.0	90	\$ 27,000	174	550	2,603	\$	52,200	\$ 165,000
2	High Performance Homes	3	1,500	12	89	300		6,000	44,500
3	Builder Option- Package 1	3	150	3	89	41		150	-
4	92% Efficient Furnace	48	9,600	105	279	796		21,000	55,800
5	95% Efficient Furnace	1,169	409,150	3,509	3,000	31,441		1,228,150	1,050,000
6	95% Efficient Furnace with ECM	293	117,200	626	805	5,609		250,400	322,000
7	98% Efficient Furnace with ECM	4	1,800	9	5	89		4,050	2,250
8	Tier 1 Storage Water Heater	259	12,950	781	-	1,068		39,050	-
9	.67 EF Storage Water Heater	55	5,500	238	-	754		23,800	-
10	.67 EF Storage Water Heater	51	5,100	80	461	183		8,000	46,100
11	Tankless Water Heater Tier 1	7	2,100	8	-	70		2,400	-
12	Tankless Water Heater Tier 2	6	2,100	32	-	307		11,200	-
13	Tankless Water Heater	-	-	-	12	-		-	3,600
14	Tankless Water Heater Tier 2	12	4,200	23	204	197		8,050	71,400
15	Condensing Gas Water Heater	-	-	-	5	-		-	1,750
16	Hybrid Gas Water Heater	-	-	1	5	7		350	1,750
17	Gas Boiler Rebates Paid - Tier 1	2	800	5	8	48		2,000	3,200
18	Gas Boiler Rebates Paid - Tier 2	3	1,800	21	18	271		12,600	10,800
19	Solar Assisted Water Heater - domestic	-	-	1	5	14		750	3,750
20	Solar Assisted Water Heater - pool	-	-	-	5	-		-	3,750
21	2x6 Walls	596	208,600	1,611	1,850	16,487		563,850	647,500
22	R-5 Window	44	1,399	190	58	57		6,173	36,250
23	Smart Thermostat (builder)	39	3,900	66	30	227		6,600	3,000
24	HERS- 10% better than code (builder)	235	47,000	662	1,620	7,044		132,400	324,000
25	Energy Star 3.0 - MF	20	4,000	383	656	2,727		76,600	131,200
26	High Performance Homes - MF	-	-	-	18	-		-	5,400
27	92% Efficient Furnace - MF	1	200	646	105	2,894		129,200	21,000
28	95% Efficient Furnace - MF	708	247,800	2,246	2,484	11,679		786,100	869,400
29	95% Efficient Furnace with ECM - MF	-	-	-	52	-		-	20,800
30	98% Efficient Furnace with ECM - MF	-	-	-	5	-		-	2,250
31	Tier 1 Storage Water Heater - MF	332	16,600	998	-	1,365		49,900	-
32	.67 EF Storage Water Heater - MF	72	7,200	170	-	539		17,000	-
33	.67 EF Storage Water Heater - MF	176	17,600	225	661	250		22,500	66,100
34	Tankless Water Heater - MF	-	-	-	5	-		-	1,500
35	Tankless Water Heater Tier 2 - MF	-	-	-	73	-		-	25,550
36	Tankless Water Heater Tier 2 - MF	-	-	98	73	157		34,300	-
37	Condensing Gas Water Heater - MF	-	-	50	-	216		17,500	-
38	Condensing Gas Water Heater - MF	20	7,000	20	5	86		7,000	1,750
39	Hybrid Gas Water Heater - MF	-	-	-	5	-		-	1,750
40	Boilers Tier 1 - MF	-	-	-	5	-		-	2,000
41	Boilers Tier 2 - MF	-	-	2	5	26		1,200	3,000
42	Solar Assisted Water Heater - domestic MF	-	-	-	5	-		-	3,750
43	Solar Assisted Water Heater - pool MF	-	-	-	5	-		-	3,750
44	2x6 Walls - MF	651	97,650	1,705	1,375	5,456		253,750	206,250
45	R-5 Window	-	-	-	5	-		-	3,125
46	Smart Thermostat (new multifamily)	-	-	-	5	-		-	500
47	HERS- 10% better than code (new multifamily)	253	25,300	373	792	2,402		37,300	79,200
48	Administrative & Overheads	N/A	109,870	N/A	N/A	N/A		360,233	742,000
49	Total	5,152	\$ 1,395,069	15,073	15,437	95,422	\$	4,173,756	\$ 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 September 30, 2016

Line #	Program	3rd Quarter 2016		Total 2016				Budget
		Participants	Actual Costs	Actual Participants	Estimated Participants	Dth Savings*	Actual Costs	
1	92% Efficient Furnace	-	-	-	3	-	-	600
2	95% Efficient Furnace	56	19,600	160	300	2,317	56,000	105,000
3	95% Efficient Furnace with ECM	18	7,200	72	200	1,043	28,800	80,000
4	98% Efficient Furnace with ECM	1	450	3	2	43	1,350	900
5	Gas Storage Water Heater - Tier 2 <75kBtu .67	-	-	3	-	7	300	-
6	Gas Storage Water Heater >75kBtu	5	2,700	17	-	749	10,690	-
7	Gas Storage Water Heater - Tier 2 <75kBtu .67	-	-	-	1	-	-	100
8	Gas Storage Water Heater >75kBtu	1	398	3	25	162	1,398	19,750
9	High Efficiency Gas Water Heater - Tankless <200kBtu	3	3,398	26	1	885	12,554	2
10	High Efficiency Gas Water Heater - Tankless >200kBtu	-	-	-	1	-	-	1,020
11	Condensing Gas Water Heater	-	-	-	1	-	-	350
12	Hybrid Gas Water Heater	-	-	1	1	8	350	350
13	Combined Space / Water Heater (business)	-	-	-	1	-	-	450
14	2.6 MEF Washer	-	-	-	1	-	-	50
15	Commercial Clothes Washer	1	75	2	1	4	150	75
16	Boiler Reset Control	-	-	-	2	-	-	500
17	Boiler Tune-up Tier 1	1	100	40	50	314	4,000	5,000
18	Boiler Tune-up Tier 2	5	1,500	48	125	1,876	14,400	18,750
19	Boiler Tune-up Tier 3	29	17,552	140	-	27,923	99,725	-
20	Boiler Tune-up Tier 3	42	30,396	46	75	12,207	43,696	18,750
21	Low Flow Pre-rinse Spray Valve	(2)	(50)	9	-	242	225	-
22	Low Flow Pre-rinse Spray Valve	-	-	-	1,000	-	-	32,000
23	Smart Thermostat (business)	12	1,200	39	100	312	3,900	10,000
24	Direct Contact Water Heater	1	220	1	1	37	220	298
25	High Efficiency Boiler Hot Water Tier 1	-	-	5	7	1,539	21,424	20,216
26	High Efficiency Boiler Hot Water Tier 2	2	9,750	7	40	2,172	26,000	338,000
27	Boiler Hot Water ≥ 2,500,000 Btu/h (business)	18	83,841	31	1	11,662	174,181	9,750
28	High Efficiency Boiler Steam Tier 1	-	-	-	1	-	-	4,140
29	Boiler Steam (Exempt Natural Draft) ≥ 300,000 Btu/h (business)	-	-	1	1	454	10,310	10,806
30	Boiler Steam (Natural Draft) ≥ 300,000 Btu/h (business)	-	-	1	1	741	10,310	10,806
31	Gas Unit Heater Non-Condensing	-	-	8	1	64	1,813	30
32	Gas Unit Heater Condensing	2	2,400	4	5	138	6,120	8,100
33	Infrared Heating System	191	141,875	531	50	30,225	392,468	35,250
34	Modulating Infrared Heaters (NC or Replacing Non-IR) (business)	-	-	-	1	-	-	1,088
35	Modulating Infrared Heaters (Replacing Non-IR) (business)	-	-	-	-	-	-	290
36	Condensing RTUs (business)	-	-	-	1	-	-	1,875
37	High Efficiency Gas Combo Oven	4	4,000	4	4	129	4,000	4,000
38	Energy Star Gas Commercial Fridge	6	3,000	34	25	1,099	17,000	12,500
39	High Efficiency Gas Convection Oven	3	1,500	9	8	116	4,500	4,000
40	High Efficiency Gas Griddle	4	1,200	6	8	42	1,800	2,400
41	Energy Star Gas Steam Cooker	-	-	-	1	-	-	1,000
42	Attic insulation (new construction)	1	192	5	3	98	3,766	4,800
43	Attic insulation (retrofit)	15	43,555	215	150	8,891	573,590	336,000
44	Wall insulation (new construction)	-	-	4	5	24	1,490	1,575
45	Wall insulation (retrofit)	-	-	4	2	47	1,939	2,400
46	High Efficiency Charbroiler	-	-	-	5	-	-	5,000
47	Conveyor Oven	-	-	-	8	-	-	8,000
48	Gas Dryer Moisture Sensor	-	-	-	10	-	-	250
49	Modulating Gas Dryer	-	-	-	-	-	-	75
50	Solar Assisted Water Heater - Pool- Business	-	-	-	-	-	-	2,260
51	Administrative & Overheads	N/A	369,958	N/A	N/A	N/A	902,144	975,000
52	<b>Total</b>	<b>419</b>	<b>\$ 746,010</b>	<b>1,479</b>	<b>2,234</b>	<b>105,570</b>	<b>\$ 2,430,512</b>	<b>\$ 2,094,546</b>

\*Savings reflect the net Dth deemed savings based on actual participants with an 85% net-to-gross ratio applied.

Questar Gas Company  
 ThermWise Home Energy Plan - Utah Programs  
 As of September 30, 2016

Line #	Program	3rd Quarter 2016		Total 2016					Actual Costs	Budget
		Participants**	Costs	Plans / Participants**	Efficiency Items**	Estimated Participants	Dth Savings*			
1	THERMWISE HOME ENERGY PLAN									
2	Efficiency Measures	463	\$ 7,946	1,758	12,353	3,163	24,728	\$ 18,953	\$ 65,840	
3	Administrative & Overheads	N/A	160,078	N/A	N/A	N/A	N/A	429,274	854,000	
4	<b>Total</b>	<b>463</b>	<b>\$ 168,024</b>	<b>1,758</b>	<b>12,353</b>	<b>3,163</b>	<b>24,728</b>	<b>\$ 448,227</b>	<b>\$ 919,840</b>	

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

\*\*P-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 September 30, 2016**

Line #	Program	3rd 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	505	\$ 176,005	2,419	14,000	14,267	\$ 841,208	\$ 4,539,500	
2	Attic Insulation Tier 2	286	24,487	1,189	4,000	1,554	104,627	378,000	
3	Floor Insulation	18	2,732	140	280	718	26,398	44,703	
4	Wall Insulation	103	28,003	452	870	1,797	127,161	224,273	
5	Windows	-	-	29	-	100	2,885	-	
6	R-5 Windows	2,140	80,377	4,962	450	4,200	188,059	17,237	
7	Duct Sealing & Insulation	676	216,656	2,024	3,000	21,827	643,555	1,257,692	
8	Air Sealing	24	13,742	111	400	901	56,331	210,698	
9	Attic Insulation Tier 1 (multifamily) - .25 per sq. ft	74	16,232	1,346	4,800	3,492	205,925	1,187,227	
10	Attic Insulation (multifamily) Tier 2	5	412	399	3,600	360	24,246	243,281	
11	Floor Insulation (multifamily)	-	-	-	20	-	-	364	
12	Wall Insulation (multifamily)	14	441	14	3	6	441	306	
13	Windows - R-5 (multifamily)	-	-	5	-	195	8,714	-	
14	Duct Sealing & Insulation (multifamily)	64	16,000	544	5,800	3,482	104,261	1,008,489	
15	Administrative & Overheads	N/A	156,578	N/A	N/A	N/A	542,794	836,000	
16	<b>Total</b>	<b>3,909</b>	<b>\$ 731,666</b>	<b>13,634</b>	<b>37,223</b>	<b>52,900</b>	<b>\$ 2,876,604</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 September 30, 2016**

Line #	Program	3rd Quarter 2016		Total 2016				
		Participants	Costs	Actual Participants	Estimated Participants	Dth Savings*	Actual Costs	Budget
1	Business Custom Rebates	2	\$ 12,820	15	15	2,934	\$ 31,903	\$ 60,000
2	Administrative & Overheads	N/A	64,850	-	N/A	N/A	165,400	438,000
3	<b>Total</b>	<b>2</b>	<b>\$ 77,670</b>	<b>15</b>	<b>15</b>	<b>2,934</b>	<b>\$ 197,303</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 September 30, 2016**

Line #	Program	3rd Quarter 2016		Total 2016			
		Participants	Actual Costs	Actual Participants	Estimated Participants	Actual Costs	Budget
1	Market Transformation Total	N/A	\$ 119,470	N/A	N/A	\$ 1,051,100	\$ 1,424,200



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

Line #	Program	3rd Quarter 2016		Total 2016				
		Actual Participants	Actual Costs	Actual Participants	Estimated Participants	Dth Savings	Actual Costs	Budget
1	Energy Comparison Report Total	57,500	\$ 38,608	172,500	230,000	131,100	\$ 174,850	\$ 410,000

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

Line #	Program	3rd Quarter 2016			Total 2016				
		Actual		Costs	Actual Participants	Estimated Participants	Dth Savings	Actual Costs	Budget
		Participants	Participants						
1	95% Efficient Furnace	10	82	\$ 3,500	190	1,681	\$ 28,700	\$ 66,500	
2	95% Efficient Furnace with ECM	1	25	400	38	513	10,000	15,200	
3	98% Efficient Furnace with ECM	1	1	450	8	22	450	3,200	
4	Gas Water Heater - Tier 2	2	10	200	38	40	1,000	3,800	
5	Attic Insulation - Tier 1	37	152	7,108	260	684	32,242	82,628	
6	Attic Insulation Tier 2	12	39	178	180	12	650	17,547	
7	Floor Insulation	11	48	1,886	80	246	7,235	17,040	
8	Wall Insulation	12	48	3,089	76	205	11,595	22,433	
9	Duct Sealing & Insulation	1	7	450	70	94	2,520	30,590	
10	Air Sealing	37	185	13,591	320	1,413	70,668	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	-	500,000	500,000	
14	Administrative & Overheads	N/A	N/A	984	N/A	N/A	3,029	35,000	
15	<b>Total</b>	<b>124</b>	<b>597</b>	<b>\$ 281,836</b>	<b>1,770</b>	<b>4,909</b>	<b>\$ 668,089</b>	<b>\$ 889,817</b>	