UNITIL GAS

NHPUC Docket No. DE 14-216

2016 Annual Report

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### **Total Resource Benefit Cost Analysis**

Summary of Benefit, Costs Program Year 2016

	TRC Benefit/ Cost	TRC Net Benefits	Total Benefits (\$000)	Total Costs (\$000)	PA Costs (\$000)	Participant Costs (\$000)	Annual MMBTU Savings	Lifetime MMBTU Savings	Partici- pants
Residential									
Home Energy Assistance	0.71	(\$67)	\$165.364	\$232.459	\$232.459	\$0.000	1,011	19,593	29
EnergyStar® Homes	1.42	\$79	\$267.940	\$188.632	\$90.656	\$97.975	1,141	27,939	20
HP w/EnergyStar®	0.93	(\$14)	\$192.392	\$206.649	\$125.903	\$80.747	1,054	22,180	33
EnergyStar® Products	1.18	\$108	\$697.398	\$589.593	\$339.473	\$250.120	4,656	84,115	486
Res Education				\$9.110	\$9.110	\$0.000			
Subtotal: Residential	1.08	\$106	\$1,323.095	\$1,226.442	\$797.600	\$428.842	7,861	153,827	568
Commercial & Industrial									
Large Business Energy Solutions	1.89	\$724	\$1,532.850	\$809.185	\$318.458	\$490.727	11,252	218,056	44
Small Business Energy Solutions	2.47	\$483	\$811.899	\$328.492	\$210.949	\$117.543	5,483	107,298	85
C&I Education				\$6.929	\$6.929	\$0.000			
Subtotal: Commercial & Industrial	2.05	\$1,207	\$2,344.749	\$1,144.605	\$536.335	\$608.270	16,735	325,354	129
Grand Total	1.55	\$1,313	\$3,667.844	\$2,371.048	\$1,333.935	\$1,037.112	24,596	479,181	697

# Performance Incentive Calculation 2016

	<u>Actual</u>	<u>Plan</u>
Commercial/Industrial		
1. Benefit/Cost Ratio	1.97	1.71
2. Threshold Benefit/Cost Ratio	1.00	
3. Lifetime MMBTU savings	325,354	375,786
4. Threshold MMBTU savings (65%)		244,261
5. Implementation Expenses	\$536,335	\$570,030
6. Benefit / Cost Percentage of Budget	4.60%	4.00%
7. Lifetime MMBTU Percentage	3.48%	4.00%
8. C/I Performance Incentive	\$43,336	\$45,602
9. C&I Cap (12%)	. ,	\$68,404
Residential		
10. Benefit/Cost Ratio	1.03	1.16
11. Threshold Benefit/Cost Ratio	1.00	1.00
12. Lifetime MMBTU savings	153,827	166,018
13. Threshold MMBTU savings (65%)		107,912
14. Implementation Expenses	\$797,600	\$777,617
15. Benefit / Cost Percentage of Budget	3.56%	4.00%
16. Lifetime MMBTU Percentage	3.72%	4.00%
17. Residential Performance Incentive	\$58,065	\$62,209
18. C&I Cap (12%)		\$93,314
19. Total Performance Incentive	\$101,401	\$107,811

Note that in the Plan filing, the B/C ratio on Attachment GG Page 2 of 3 was mis-stated as 1.76 for the C&I Sector and 1.22 for the Residential Sector due to an error in the caclulation. The B/C ratio in the Plan on Attachment GG page 3 of 3 is correctly stated at 1.71 for the C&I Sector and 1.16 for the Residential Sector.

# Planned Versus Actual Benefit / Cost Ratio by Sector 2016

		<u>Actual</u>	<u>Planned</u>		
Co	mmercial & Industrial:				
1.	Benefits (Value) From Eligible Programs	\$ 2,344,749	\$	2,642,271	
2.	Implementation Expenses	\$ 536,335	\$	570,030	
3.	Customer Contribution	\$ 608,270	\$	927,063	
4.	Performance Incentive	\$ 43,336	\$	45,602	
5.	Total Costs (Including PI)	\$ 1,187,941	\$	1,542,695	
6.	Benefit/Cost Ratio - C&I Sector	1.97		1.71	
Res	sidential:				
7.	Benefits (Value) From Eligible Programs	\$ 1,323,095	\$	1,421,489	
8.	Implementation Expenses	\$ 797,600	\$	777,617	
9.	Customer Contribution	\$ 428,842	\$	389,318	
10.	Performance Incentive	\$ 58,065	\$	62,209	
11.	Total Costs (Including PI)	\$ 1,284,508	\$	1,229,144	
12.	Benefit/Cost Ratio - Residential Sector	1.03		1.16	

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#### **Unitil Gas** 2016 Energy Efficiency Charge Fund Reconciliation

			<b>Total 2016</b>		
1.	Beginning Balance: 1/1/2016 (Over)/U	nder \$	\$	(176,315)	
Re	venues				
2.	Energy Efficiency Charge Revenue	Ş	5	1,230,230	
3.	Interest	<u> </u>	\$	13,400	
4.	Total Funding ∑ Lines 2	- 3	\$	13,400 1,243,630	
Ex	penses				
5.	Program Expenses	Ç	\$	1,333,936	
6.	PI - Current Year Estimate	Ç	\$	107,812	
7.	PI - Prior Year(s) True-Up	<u> </u>	\$	3,969	
8.	Total Expenses ∑ Lines 5 + 6	+7 \$	5	1,445,717	
9.	Ending Balance: 12/31/2016 Lines 1 - 4	+8 5	5	25,771	
Ending Balance Adjusted for Current Year Actual PI					
	Actual Performance Incentive - 2016 Attachment	G-G \$	5	94,809	
##	Ending Balance w/ Actual PI Lines 9 - 6 +	· 10 \$	5	12,769	
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#### Notes:

Line 5: Reflects removal of \$12,500 overpayment.
Line 6: PI Current Year Estimate is budgeted performance incentive

Line 7: PI Prior Year(s) True-Up includes adjustment for 2015 earned performance incentive.

Line 10: Actual Performance Incentives is the actual earend PI as shown in Attachment G-G.