

Unitil Energy Systems, Inc.
Typical Bill Impacts as a Result of Proposed Rates
Impacts do NOT include the Electricity Consumption Tax
Impact on D Rate Customers

<u>Range Monthly kWh</u>	<u>Percentage Bills</u>	<u>Average kWh</u>	<u>Total Bill Using Rates Effective 12/1/2015</u>	<u>Total Bill Using Rates Proposed</u>	<u>Total Difference</u>	<u>% Total Difference</u>
0-100	7.2%	40	\$16.54	\$21.42	\$4.88	29.5%
101-200	8.2%	153	\$34.07	\$39.38	\$5.32	15.6%
201-300	10.5%	251	\$49.28	\$54.96	\$5.68	11.5%
301-400	11.1%	351	\$65.17	\$70.73	\$5.57	8.5%
401-500	10.9%	450	\$81.08	\$86.53	\$5.45	6.7%
501-750	21.9%	617	\$107.81	\$113.06	\$5.25	4.9%
750-1,000	13.4%	864	\$147.32	\$152.28	\$4.96	3.4%
1,000-1,500	11.2%	1,200	\$201.18	\$205.74	\$4.56	2.3%
1,501-2,000	3.5%	1,705	\$282.07	\$286.04	\$3.97	1.4%
2,001-3,500	1.7%	2,358	\$386.64	\$389.83	\$3.20	0.8%
3,501-5,000	0.3%	3,312	\$539.35	\$541.42	\$2.07	0.4%
5,000+	0.2%	4,342	\$704.30	\$705.16	\$0.86	0.1%
600 kWh bill		600	\$105.10	\$110.37	\$5.27	5.0%

Unitil Energy Systems, Inc.
Rates - Effective 12/1/2015:

Customer Charge	\$10.27	
	<u>First 250 kWh</u>	<u>Over 250 kWh</u>
Distribution Charge	\$0.03404	\$0.03904
External Delivery Charge	\$0.02131	\$0.02131
Stranded Cost Charge	\$0.00018	\$0.00018
System Benefits Charge	\$0.00330	\$0.00330
Storm Recovery Adjustment Factor	\$0.00221	\$0.00221
Fixed Default Service Charge	<u>\$0.09409</u>	<u>\$0.09409</u>
TOTAL	\$0.15513	\$0.16013

Unitil Energy Systems, Inc.
Rates - Proposed:

Customer Charge	\$15.00	
	<u>All kWh</u>	
Distribution Charge	\$0.03786	
External Delivery Charge	\$0.02131	
Stranded Cost Charge	\$0.00018	
System Benefits Charge	\$0.00330	
Storm Recovery Adjustment Factor	\$0.00221	
Fixed Default Service Charge	<u>\$0.09409</u>	
TOTAL	\$0.15895	

Unitil Energy Systems, Inc. Typical Bill Impacts as a Result of Proposed Rates Impacts do NOT include the Electricity Consumption Tax Impact on G2 Rate Customers								
Average Load Factor	kW Range	Percentage Bills	Average Monthly kW	Average Monthly kWh	Total Bill Using Rates Effective 12/1/2015	Total Bill Using Rates Proposed	Total Difference	% Total Difference
23%	0-1.0	26.0%	0.9	145	\$44.63	\$53.42	\$8.79	19.7%
26%	1.1-2	8.9%	1.5	285	\$67.55	\$76.48	\$8.93	13.2%
23%	2.1-3	7.0%	2.5	427	\$95.10	\$104.27	\$9.17	9.6%
24%	3.1-4	6.3%	3.5	620	\$128.28	\$137.69	\$9.40	7.3%
24%	4.1-5	5.8%	4.5	789	\$158.67	\$168.31	\$9.64	6.1%
24%	5.1-6	5.0%	5.5	960	\$189.13	\$198.99	\$9.86	5.2%
24%	6.1-7	4.4%	6.5	1,153	\$222.26	\$232.35	\$10.09	4.5%
25%	7.1-8	3.8%	7.5	1,365	\$257.62	\$267.94	\$10.32	4.0%
26%	8.1-9	3.1%	8.5	1,613	\$297.41	\$307.96	\$10.55	3.5%
27%	9.1-10	2.8%	9.5	1,880	\$339.23	\$350.02	\$10.78	3.2%
28%	10.1-12	4.4%	11.0	2,277	\$401.36	\$412.48	\$11.12	2.8%
30%	12.1-14	3.2%	13.0	2,810	\$485.02	\$496.60	\$11.58	2.4%
30%	14.1-16	2.6%	15.0	3,309	\$564.91	\$576.95	\$12.04	2.1%
31%	16.1-18	2.0%	17.0	3,906	\$656.04	\$668.54	\$12.50	1.9%
33%	18.1-20	1.7%	19.0	4,553	\$753.30	\$766.27	\$12.97	1.7%
34%	20.1-22.5	1.7%	21.3	5,345	\$870.02	\$883.49	\$13.48	1.5%
36%	22.6-25	1.3%	23.7	6,269	\$1,004.86	\$1,018.91	\$14.05	1.4%
37%	25.1-30	2.0%	27.4	7,404	\$1,176.79	\$1,191.68	\$14.89	1.3%
38%	30.1-35	1.4%	32.4	8,999	\$1,417.26	\$1,433.31	\$16.04	1.1%
39%	35.1-40	1.0%	37.4	10,567	\$1,653.93	\$1,671.12	\$17.19	1.0%
41%	40.1-45	0.8%	42.4	12,750	\$1,963.44	\$1,981.77	\$18.33	0.9%
42%	45.1-50	0.6%	47.6	14,526	\$2,227.71	\$2,247.25	\$19.54	0.9%
43%	50.1-60	1.0%	54.8	17,048	\$2,599.89	\$2,621.08	\$21.19	0.8%
44%	60.1-70	0.8%	64.6	20,680	\$3,130.72	\$3,154.16	\$23.45	0.7%
44%	70.1-80	0.5%	74.9	23,880	\$3,615.59	\$3,641.40	\$25.82	0.7%
45%	80.1-90	0.5%	84.8	27,839	\$4,185.86	\$4,213.95	\$28.10	0.7%
45%	90.1-100	0.3%	94.8	31,026	\$4,665.96	\$4,696.36	\$30.40	0.7%
42%	100.1-120	0.5%	109.1	33,479	\$5,104.01	\$5,137.70	\$33.69	0.7%
43%	120.1-140	0.3%	129.1	40,246	\$6,110.18	\$6,148.45	\$38.28	0.6%
44%	140.1-160	0.2%	149.4	47,800	\$7,213.27	\$7,256.22	\$42.95	0.6%
43%	160.1-200	0.2%	176.4	55,654	\$8,420.81	\$8,469.97	\$49.16	0.6%
27%	200.1+	0.1%	325.0	63,883	\$10,930.96	\$11,014.29	\$83.33	0.8%
Unitil Energy Systems, Inc. Rates - Effective 12/1/2015:					Unitil Energy Systems, Inc. Rates - Proposed:			
Customer Charge			\$18.41	Customer Charge			\$27.00	
			<u>All kW</u>				<u>All kW</u>	
Distribution Charge			\$10.31	Distribution Charge			\$10.54	
Stranded Cost Charge			<u>\$0.04</u>	Stranded Cost Charge			<u>\$0.04</u>	
TOTAL			\$10.35	TOTAL			\$10.58	
			<u>kWh</u>				<u>kWh</u>	
Distribution Charge			\$0.00000	Distribution Charge			\$0.00000	
External Delivery Charge			\$0.02131	External Delivery Charge			\$0.02131	
Stranded Cost Charge			\$0.00004	Stranded Cost Charge			\$0.00004	
System Benefits Charge			\$0.00330	System Benefits Charge			\$0.00330	
Storm Recovery Adjustment Factor			\$0.00221	Storm Recovery Adjustment Factor			\$0.00221	
Fixed Default Service Charge			<u>\$0.09131</u>	Fixed Default Service Charge			<u>\$0.09131</u>	
TOTAL			\$0.11817	TOTAL			\$0.11817	

Unitil Energy Systems, Inc. Typical Bill Impacts as a Result of Proposed Rates Impacts do NOT include the Electricity Consumption Tax Impact on G2 - kWh meter Rate Customers						
Range Monthly kWh	Percentage Bills	Average Monthly kWh	Total Bill Using Rates Effective 12/1/2015	Total Bill Using Rates Proposed	Total Difference	% Total Difference
0-50	53.8%	18	\$16.63	\$21.14	\$4.51	27.1%
51-100	15.8%	71	\$24.69	\$27.55	\$2.86	11.6%
101-200	15.0%	147	\$36.01	\$36.55	\$0.55	1.5%
201-300	6.4%	246	\$50.93	\$48.43	(\$2.51)	-4.9%
301-400	3.4%	345	\$65.85	\$60.29	(\$5.56)	-8.4%
401-500	2.1%	445	\$80.94	\$72.29	(\$8.64)	-10.7%
501-600	1.3%	545	\$95.89	\$84.19	(\$11.70)	-12.2%
601-700	0.4%	647	\$111.30	\$96.45	(\$14.86)	-13.3%
701-800	0.4%	745	\$125.99	\$108.13	(\$17.86)	-14.2%
801-1,000	0.5%	884	\$146.98	\$124.82	(\$22.15)	-15.1%
1,000+	1.0%	1,930	\$304.18	\$249.87	(\$54.31)	-17.9%
Unitil Energy Systems, Inc.			Unitil Energy Systems, Inc.			
Rates - Effective 12/1/2015:			Rates - Proposed:			
Customer Charge		\$13.94	Customer Charge		\$19.00	
		<u>All kWh</u>			<u>All kWh</u>	
Distribution Charge		\$0.03211	Distribution Charge		\$0.00134	
External Delivery Charge		\$0.02131	External Delivery Charge		\$0.02131	
Stranded Cost Charge		\$0.00018	Stranded Cost Charge		\$0.00018	
System Benefits Charge		\$0.00330	System Benefits Charge		\$0.00330	
Storm Recovery Adjustment Factor		\$0.00221	Storm Recovery Adjustment Factor		\$0.00221	
Fixed Default Service Charge		<u>\$0.09131</u>	Fixed Default Service Charge		<u>\$0.09131</u>	
TOTAL		\$0.15042	TOTAL		\$0.11965	

Unitil Energy Systems, Inc. Typical Bill Impacts as a Result of Proposed Rates Impacts do NOT include the Electricity Consumption Tax Impact on G2 - QRWH and SH Rate Customers							
Range Monthly kWh	Percentage Bills	Average kWh	Total Bill Using Rates Effective 12/1/2015	Total Bill Using Rates Proposed	Total Difference	% Total Difference	
0-250	40.5%	84	\$18.74	\$21.60	\$2.86	15.2%	
251-500	12.2%	365	\$60.64	\$63.85	\$3.21	5.3%	
501-750	7.6%	621	\$98.87	\$102.41	\$3.53	3.6%	
751-1,000	5.9%	875	\$136.64	\$140.50	\$3.85	2.8%	
1,001-2,000	12.7%	1,405	\$215.70	\$220.22	\$4.52	2.1%	
2,001-3,000	6.6%	2,488	\$377.06	\$382.95	\$5.88	1.6%	
3,001-4,000	4.3%	3,490	\$526.41	\$533.56	\$7.15	1.4%	
4,001-5,000	2.4%	4,475	\$673.14	\$681.53	\$8.39	1.2%	
5,001-6,000	1.6%	5,507	\$827.00	\$836.69	\$9.69	1.2%	
6,001-7,000	1.4%	6,429	\$964.37	\$975.22	\$10.85	1.1%	
7,001-8,000	0.5%	7,499	\$1,123.96	\$1,136.16	\$12.20	1.1%	
8,001-9,000	0.5%	8,496	\$1,272.47	\$1,285.92	\$13.45	1.1%	
9,001-10,000	0.6%	9,442	\$1,413.45	\$1,428.10	\$14.65	1.0%	
10,001+	3.1%	20,118	\$3,004.61	\$3,032.71	\$28.10	0.9%	
Unitil Energy Systems, Inc. Rates - Effective 12/1/2015:				Unitil Energy Systems, Inc. Rates - Proposed:			
Customer Charge	\$6.25			Customer Charge	\$9.00		
	<u>All kWh</u>				<u>All kWh</u>		
Distribution Charge	\$0.03073			Distribution Charge	\$0.03199		
External Delivery Charge	\$0.02131			External Delivery Charge	\$0.02131		
Stranded Cost Charge	\$0.00018			Stranded Cost Charge	\$0.00018		
System Benefits Charge	\$0.00330			System Benefits Charge	\$0.00330		
Storm Recovery Adjustment Factor	\$0.00221			Storm Recovery Adjustment Factor	\$0.00221		
Fixed Default Service Charge	<u>\$0.09131</u>			Fixed Default Service Charge	<u>\$0.09131</u>		
TOTAL	\$0.14904			TOTAL	\$0.15030		

Unitil Energy Systems, Inc.
Typical Bill Impacts as a Result of Proposed Rates
Impacts do NOT include the Electricity Consumption Tax
Impact on G1 Rate Customers

Customer	Load Factor	Average Monthly kVA	Average kWh	Voltage Discount Tier	Transformer Ownership Credit	Total Bill Using Rates Effective 12/1/2015	Total Bill Using Rates Proposed	Total Difference	% Total Difference
1	48.4%	426	150,200		Yes	\$11,602.05	\$11,842.13	\$240.08	2.1%
2	37.5%	218	59,575	1	Yes	\$4,847.26	\$4,963.61	\$116.35	2.4%
3	23.5%	163	27,950		Yes	\$2,792.19	\$2,916.76	\$124.57	4.5%
4	23.9%	467	81,500		Yes	\$7,903.46	\$8,161.99	\$258.52	3.3%
5	15.8%	205	23,650		Yes	\$2,818.19	\$2,961.06	\$142.86	5.1%
6	36.0%	368	96,550	1	Yes	\$7,913.84	\$8,094.73	\$180.89	2.3%
7	27.9%	187	38,093			\$3,612.66	\$3,768.51	\$155.85	4.3%
8	50.0%	345	125,917			\$9,797.18	\$10,039.63	\$242.45	2.5%
9	28.0%	304	62,280			\$5,831.17	\$6,051.36	\$220.19	3.8%
10	48.8%	250	89,025	1	Yes	\$6,723.99	\$6,854.09	\$130.09	1.9%
11	28.7%	666	139,525	1	Yes	\$12,286.39	\$12,596.11	\$309.72	2.5%
12	52.6%	509	195,600			\$14,980.58	\$15,313.45	\$332.87	2.2%
13	46.3%	326	110,225			\$8,759.77	\$8,992.06	\$232.29	2.7%
14	36.9%	406	109,267			\$9,263.03	\$9,539.22	\$276.19	3.0%
15	56.0%	334	136,500			\$10,334.24	\$10,570.77	\$236.53	2.3%
16	40.9%	393	117,450			\$9,644.29	\$9,913.23	\$268.93	2.8%
17	27.1%	466	92,200			\$8,692.14	\$9,001.07	\$308.93	3.6%
18	53.1%	924	358,267	1	Yes	\$26,361.21	\$26,782.06	\$420.84	1.6%
19	65.5%	546	261,450			\$19,052.48	\$19,405.87	\$353.39	1.9%
20	65.0%	1,313	622,708	2	Yes	\$43,207.45	\$43,787.36	\$579.91	1.3%
21	27.4%	721	144,433	1	Yes	\$12,920.21	\$13,253.59	\$333.38	2.6%
22	45.9%	291	97,487	1	Yes	\$7,471.01	\$7,618.88	\$147.88	2.0%
23	27.1%	342	67,700	1	Yes	\$6,114.89	\$6,284.95	\$170.05	2.8%
24	59.9%	298	130,325	1	Yes	\$9,380.10	\$9,531.09	\$150.99	1.6%
25	55.2%	491	197,600			\$14,965.91	\$15,288.54	\$322.63	2.2%
26	63.4%	396	183,373			\$13,482.60	\$13,753.36	\$270.77	2.0%
27	45.5%	1,380	458,000	1	Yes	\$34,972.35	\$35,589.90	\$617.54	1.8%
28	49.8%	662	240,771	2	Yes	\$17,727.63	\$18,031.25	\$303.61	1.7%
29	55.1%	634	255,160		Yes	\$19,056.61	\$19,388.58	\$331.97	1.7%
30	35.9%	407	106,750	1	Yes	\$8,746.93	\$8,944.77	\$197.84	2.3%
31	15.4%	295	33,253		Yes	\$3,974.68	\$4,157.53	\$182.85	4.6%
32	40.7%	218	64,880			\$5,380.04	\$5,552.96	\$172.92	3.2%
33	21.3%	573	89,250	1	Yes	\$8,829.21	\$9,098.59	\$269.38	3.1%
34	26.6%	531	103,000			\$9,771.64	\$10,116.29	\$344.64	3.5%
35	41.7%	235	71,550			\$5,881.13	\$6,063.09	\$181.96	3.1%
36	54.0%	3,688	1,455,125	2	Yes	\$104,844.01	\$106,432.43	\$1,588.42	1.5%
37	48.4%	283	100,000			\$7,866.27	\$8,074.85	\$208.58	2.7%
38	63.5%	516	239,050			\$17,542.98	\$17,879.62	\$336.64	1.9%
39	55.5%	469	190,167	2	Yes	\$13,669.73	\$13,891.34	\$221.61	1.6%
40	40.3%	300	88,183			\$7,297.18	\$7,514.77	\$217.59	3.0%
41	24.8%	353	63,800		Yes	\$6,121.89	\$6,330.00	\$208.11	3.4%
42	39.8%	310	90,130			\$7,483.01	\$7,706.35	\$223.34	3.0%
43	75.3%	2,750	1,511,663	2	Yes	\$102,019.74	\$103,209.99	\$1,190.25	1.2%
44	58.6%	1,370	586,031	2	Yes	\$41,522.82	\$42,126.93	\$604.11	1.5%
45	58.9%	3,286	1,413,417	2		\$101,185.74	\$102,952.18	\$1,766.43	1.7%
46	52.6%	532	204,213	1	Yes	\$15,082.22	\$15,333.83	\$251.62	1.7%
47	25.0%	458	83,417			\$8,129.55	\$8,434.22	\$304.67	3.7%
48	57.5%	1,297	544,250	2	Yes	\$38,721.37	\$39,294.32	\$572.95	1.5%
49	70.2%	705	361,250			\$25,935.67	\$26,376.10	\$440.43	1.7%
50	33.1%	260	62,967			\$5,562.84	\$5,758.82	\$195.98	3.5%
51	25.1%	345	63,133			\$6,165.78	\$6,408.38	\$242.60	3.9%
52	28.8%	250	52,700			\$4,899.53	\$5,090.08	\$190.55	3.9%
53	16.9%	384	47,417			\$5,527.76	\$5,791.69	\$263.93	4.8%
54	11.0%	466	37,292			\$5,520.55	\$5,829.96	\$309.40	5.6%

Unitil Energy Systems, Inc.
Rates - Effective 12/1/2015:

Customer Charge - Secondary **\$97.16**
Customer Charge - Primary **\$57.58**

All kVA
Distribution Charge **\$6.95**
Stranded Cost Charge **\$0.05**
TOTAL \$7.00

All kWh
Distribution Charge **\$0.00000**
External Delivery Charge **\$0.02131**
Stranded Cost Charge **\$0.00005**
System Benefits Charge **\$0.00330**
Storm Recovery Adjustment Factor **\$0.00221**
April 2016 Default Service Charge **\$0.03100**
TOTAL \$0.05787

High Voltage Discount 1 for 4-13.8 kV 2.0%
High Voltage Discount 2 for 34.5 kV 3.5%
Transformer Ownership Credit \$/kVA \$0.39

Unitil Energy Systems, Inc.
Rates - Proposed:

Customer Charge - Secondary **\$150.00**
Customer Charge - Primary **\$80.00**

All kVA
Distribution Charge **\$7.50**
Stranded Cost Charge **\$0.05**
TOTAL \$7.55

All kWh
Distribution Charge **\$0.00000**
External Delivery Charge **\$0.02131**
Stranded Cost Charge **\$0.00005**
System Benefits Charge **\$0.00330**
Storm Recovery Adjustment Factor **\$0.00221**
April 2016 Default Service Charge **\$0.03100**
TOTAL \$0.05787

High Voltage Discount 1 for 4-13.8 kV 2.0%
High Voltage Discount 2 for 34.5 kV 3.5%
Transformer Ownership Credit \$/kVA \$0.50

Unitil Energy Systems, Inc.
Typical Bill Impacts as a Result of Proposed Rates
Impacts do NOT include the Electricity Consumption Tax
Impact on G1 Rate Customers

Customer	Load Factor	Average Monthly kVA	Average kWh	Voltage Discount Tier	Transformer Ownership Credit	Total Bill Using Rates Effective 12/1/2015	Total Bill Using Rates Proposed	Total Difference	% Total Difference
55	14.5%	404	42,798		Yes	\$5,243.83	\$5,474.39	\$230.57	4.4%
56	53.7%	756	296,083			\$22,522.92	\$22,991.51	\$468.59	2.1%
57	36.2%	263	69,567			\$5,966.27	\$6,163.94	\$197.67	3.3%
58	37.7%	770	211,750			\$17,741.13	\$18,217.47	\$476.34	2.7%
59	45.5%	243	80,650			\$6,462.48	\$6,648.74	\$186.26	2.9%
60	48.4%	260	91,633			\$7,216.62	\$7,412.20	\$195.58	2.7%
61	43.4%	297	93,880			\$7,605.50	\$7,821.41	\$215.92	2.8%
62	34.5%	348	87,750			\$7,613.77	\$7,858.21	\$244.44	3.2%
63	34.0%	597	148,125			\$12,845.77	\$13,226.78	\$381.00	3.0%
64	53.2%	346	134,250			\$10,287.16	\$10,530.22	\$243.06	2.4%
65	27.2%	1,406	278,971		Yes	\$25,531.67	\$26,202.93	\$671.27	2.6%
66	29.9%	194	42,360			\$3,908.17	\$4,067.84	\$159.67	4.1%
67	59.9%	354	154,700			\$11,527.39	\$11,774.91	\$247.52	2.1%
68	46.2%	333	112,250			\$8,923.13	\$9,159.05	\$235.92	2.6%
69	34.2%	218	54,467			\$4,774.28	\$4,946.95	\$172.67	3.6%
70	6.9%	378	19,158			\$3,854.72	\$4,115.69	\$260.97	6.8%
71	2.1%	1,727	26,800			\$13,735.96	\$14,738.56	\$1,002.60	7.3%
72	41.4%	365	110,320			\$9,038.05	\$9,291.77	\$253.72	2.8%
73	55.7%	510	207,490			\$15,677.09	\$16,010.63	\$333.54	2.1%
74	25.5%	370	68,898			\$6,671.71	\$6,927.85	\$256.14	3.8%
75	46.7%	329	112,290			\$8,901.86	\$9,135.92	\$234.06	2.6%
76	49.3%	532	191,717			\$14,919.00	\$15,264.69	\$345.69	2.3%
77	51.7%	453	170,900			\$13,159.22	\$13,461.29	\$302.07	2.3%
78	46.4%	230	77,905			\$6,217.12	\$6,396.59	\$179.47	2.9%
79	74.2%	516	279,470			\$19,881.46	\$20,218.05	\$336.59	1.7%
80	51.7%	410	154,733			\$11,921.90	\$12,200.27	\$278.37	2.3%
81	46.8%	264	90,293			\$7,173.06	\$7,371.31	\$198.25	2.8%
82	35.4%	233	60,240			\$5,216.90	\$5,398.10	\$181.20	3.5%
83	60.1%	450	197,280			\$14,663.73	\$14,964.07	\$300.34	2.0%
84	67.7%	718	354,850			\$25,656.23	\$26,103.80	\$447.57	1.7%
85	33.0%	240	57,780			\$5,119.31	\$5,304.03	\$184.72	3.6%
86	65.3%	203	96,850			\$7,124.27	\$7,288.87	\$164.60	2.3%
87	12.6%	619	56,775			\$7,718.49	\$8,112.00	\$393.51	5.1%
88	63.0%	254	116,867			\$8,640.33	\$8,833.04	\$192.71	2.2%
89	8.6%	521	32,760			\$5,639.84	\$5,979.22	\$339.38	6.0%
90	31.0%	287	64,760			\$5,851.09	\$6,061.57	\$210.48	3.6%
91	62.5%	499	227,520			\$16,754.68	\$17,081.81	\$327.13	2.0%
92	57.1%	876	365,200			\$27,362.41	\$27,896.98	\$534.57	2.0%
93	29.8%	419	91,125			\$8,302.16	\$8,585.34	\$283.18	3.4%
94	21.2%	385	59,613		Yes	\$6,090.58	\$6,312.73	\$222.16	3.6%
95	39.4%	301	86,460			\$7,204.52	\$7,422.67	\$218.15	3.0%
96	64.8%	571	270,160			\$19,728.13	\$20,095.01	\$366.88	1.9%
97	37.6%	319	87,480			\$7,393.33	\$7,621.67	\$228.34	3.1%
98	66.4%	374	181,176			\$13,198.91	\$13,457.37	\$258.47	2.0%
99	46.2%	375	126,342			\$10,033.24	\$10,292.31	\$259.06	2.6%
100	9.4%	242	16,704			\$2,760.97	\$2,947.16	\$186.19	6.7%
101	19.3%	311	43,824			\$4,809.62	\$5,033.47	\$223.84	4.7%
102	21.6%	225	35,467			\$3,721.56	\$3,897.91	\$176.35	4.7%
103	50.2%	510	186,760			\$14,475.46	\$14,808.84	\$333.38	2.3%
104	57.3%	416	173,952			\$13,076.23	\$13,357.91	\$281.68	2.2%
105	44.4%	388	125,563	2	Yes	\$9,541.42	\$9,728.38	\$186.96	2.0%
106	35.1%	480	123,000	1	Yes	\$10,140.33	\$10,369.57	\$229.25	2.3%
107	67.8%	317	156,890			\$11,393.93	\$11,621.00	\$227.08	2.0%
108	65.1%	508	241,344			\$17,618.34	\$17,950.47	\$332.13	1.9%

Unitil Energy Systems, Inc.			Unitil Energy Systems, Inc.		
Rates - Effective 12/1/2015:			Rates - Proposed:		
Customer Charge - Secondary	\$97.16		Customer Charge - Secondary	\$150.00	
Customer Charge - Primary	\$57.58		Customer Charge - Primary	\$80.00	
	<u>All kVA</u>			<u>All kVA</u>	
Distribution Charge	\$6.95		Distribution Charge	\$7.50	
Stranded Cost Charge	\$0.05		Stranded Cost Charge	\$0.05	
TOTAL	\$7.00		TOTAL	\$7.55	
	<u>All kWh</u>			<u>All kWh</u>	
Distribution Charge	\$0.00000		Distribution Charge	\$0.00000	
External Delivery Charge	\$0.02131		External Delivery Charge	\$0.02131	
Stranded Cost Charge	\$0.00005		Stranded Cost Charge	\$0.00005	
System Benefits Charge	\$0.00330		System Benefits Charge	\$0.00330	
Storm Recovery Adjustment Factor	\$0.00221		Storm Recovery Adjustment Factor	\$0.00221	
April 2016 Default Service Charge	\$0.03100		April 2016 Default Service Charge	\$0.03100	
TOTAL	\$0.05787		TOTAL	\$0.05787	
High Voltage Discount 1 for 4-13.8 kV	2.0%		High Voltage Discount 1 for 4-13.8 kV	2.0%	
High Voltage Discount 2 for 34.5 kV	3.5%		High Voltage Discount 2 for 34.5 kV	3.5%	
Transformer Ownership Credit \$/kVA	\$0.39		Transformer Ownership Credit \$/kVA	\$0.50	

Unitil Energy Systems, Inc.
Typical Bill Impacts as a Result of Proposed Rates
Impacts do NOT include the Electricity Consumption Tax
Impact on G1 Rate Customers

Customer	Load Factor	Average Monthly kVA	Average kWh	Voltage Discount Tier	Transformer Ownership Credit	Total Bill Using Rates Effective 12/1/2015	Total Bill Using Rates Proposed	Total Difference	% Total Difference
109	17.7%	237	30,528			\$3,522.00	\$3,705.12	\$183.13	5.2%
110	52.6%	302	116,000			\$8,925.91	\$9,145.00	\$219.08	2.5%
111	51.4%	659	246,908	2	Yes	\$18,047.21	\$18,349.29	\$302.08	1.7%
112	36.2%	420	110,840			\$9,450.69	\$9,734.47	\$283.78	3.0%
113	37.6%	316	86,633			\$7,322.44	\$7,549.07	\$226.63	3.1%
114	48.7%	275	97,635	2	Yes	\$7,262.20	\$7,401.26	\$139.06	1.9%
115	50.3%	400	146,733			\$11,385.72	\$11,658.34	\$272.61	2.4%
116	44.1%	151	48,576			\$3,963.76	\$4,099.53	\$135.77	3.4%
117	56.5%	679	280,160			\$21,064.50	\$21,490.91	\$426.41	2.0%
118	72.7%	425	225,780			\$16,140.69	\$16,427.48	\$286.80	1.8%
119	63.2%	225	103,979			\$7,691.03	\$7,867.75	\$176.72	2.3%
120	28.9%	413	87,250			\$8,040.33	\$8,320.55	\$280.23	3.5%
121	46.7%	493	167,860			\$13,261.34	\$13,585.26	\$323.92	2.4%
122	43.1%	387	121,680			\$9,846.87	\$10,112.49	\$265.62	2.7%
123	44.7%	513	167,708	2	Yes	\$12,698.52	\$12,938.96	\$240.45	1.9%
124	40.5%	271	80,080			\$6,627.34	\$6,829.15	\$201.81	3.0%
125	40.2%	306	89,713			\$7,430.23	\$7,651.32	\$221.09	3.0%
126	9.9%	599	43,094	2	Yes	\$6,283.90	\$6,560.59	\$276.69	4.4%
127	23.9%	313	54,720			\$5,454.69	\$5,679.67	\$224.98	4.1%
128	28.7%	278	58,250	2	Yes	\$5,083.95	\$5,224.42	\$140.47	2.8%
129	64.1%	695	325,375		Yes	\$23,521.85	\$23,880.58	\$358.73	1.5%
130	55.7%	2,629	1,069,542	2	Yes	\$76,552.14	\$77,690.64	\$1,138.50	1.5%
131	79.2%	2,071	1,196,935	2	Yes	\$80,110.06	\$81,011.83	\$901.77	1.1%
132	62.0%	2,738	1,239,005	2	Yes	\$86,714.38	\$87,899.38	\$1,185.00	1.4%
133	60.5%	294	129,875			\$9,669.86	\$9,884.31	\$214.45	2.2%
134	48.0%	240	84,328			\$6,660.28	\$6,845.36	\$185.08	2.8%
135	24.3%	175	30,955			\$3,110.17	\$3,258.99	\$148.82	4.8%
136	37.0%	393	106,128			\$8,991.27	\$9,260.38	\$269.11	3.0%
137	15.0%	313	34,192			\$4,267.21	\$4,492.23	\$225.02	5.3%
138	54.5%	956	380,064		Yes	\$28,407.32	\$28,880.58	\$473.26	1.7%
139	16.3%	247	29,500			\$3,536.34	\$3,725.26	\$188.93	5.3%
140	53.0%	413	159,960			\$12,247.38	\$12,527.55	\$280.17	2.3%
141	33.2%	541	130,941			\$11,458.42	\$11,808.54	\$350.13	3.1%
142	38.2%	246	68,774			\$5,802.19	\$5,990.57	\$188.38	3.2%
143	66.7%	532	259,029			\$18,808.34	\$19,153.56	\$345.22	1.8%
144	43.2%	869	273,977			\$22,036.66	\$22,567.56	\$530.90	2.4%
145	80.9%	182	107,225			\$7,573.19	\$7,725.89	\$152.70	2.0%
146	56.4%	435	179,087			\$13,507.95	\$13,800.20	\$292.25	2.2%
147	42.6%	390	121,200			\$9,839.39	\$10,106.61	\$267.21	2.7%
148	28.3%	647	133,675			\$12,363.29	\$12,772.09	\$408.80	3.3%
149	55.6%	472	191,775			\$14,502.26	\$14,814.94	\$312.68	2.2%
150	51.6%	473	178,067			\$13,712.22	\$14,025.16	\$312.94	2.3%
151	33.5%	470	114,833			\$10,030.33	\$10,341.49	\$311.16	3.1%
152	66.3%	475	229,967			\$16,730.31	\$17,044.40	\$314.09	1.9%
153	26.4%	883	170,467			\$16,145.82	\$16,684.53	\$538.71	3.3%
154	70.9%	1,070	553,664			\$39,626.24	\$40,267.47	\$641.23	1.6%
155	59.1%	424	182,800			\$13,640.90	\$13,926.72	\$285.81	2.1%
156	39.4%	243	69,730			\$5,831.24	\$6,017.56	\$186.32	3.2%
157	7.0%	323	16,600			\$3,317.71	\$3,548.12	\$230.40	6.9%
158	54.0%	532	209,900			\$15,968.77	\$16,314.27	\$345.49	2.2%
159	54.4%	509	202,050			\$15,353.32	\$15,686.15	\$332.83	2.2%
160	45.2%	619	204,500			\$16,267.61	\$16,661.14	\$393.53	2.4%
161	37.4%	343	93,580			\$7,911.53	\$8,152.86	\$241.33	3.1%
162	42.9%	578	181,050			\$14,619.17	\$14,989.80	\$370.63	2.5%

Unitil Energy Systems, Inc.
Rates - Effective 12/1/2015:

Customer Charge - Secondary
Customer Charge - Primary

\$97.16
\$57.58

All kVA
Distribution Charge \$6.95
Stranded Cost Charge \$0.05
TOTAL \$7.00

All kWh
Distribution Charge \$0.00000
External Delivery Charge \$0.02131
Stranded Cost Charge \$0.00005
System Benefits Charge \$0.00330
Storm Recovery Adjustment Factor \$0.00221
April 2016 Default Service Charge \$0.03100
TOTAL \$0.05787

High Voltage Discount 1 for 4-13.8 kV 2.0%
High Voltage Discount 2 for 34.5 kV 3.5%
Transformer Ownership Credit \$/kVA \$0.39

Unitil Energy Systems, Inc.
Rates - Proposed:

Customer Charge - Secondary
Customer Charge - Primary

\$150.00
\$80.00

All kVA
Distribution Charge \$7.50
Stranded Cost Charge \$0.05
TOTAL \$7.55

All kWh
Distribution Charge \$0.00000
External Delivery Charge \$0.02131
Stranded Cost Charge \$0.00005
System Benefits Charge \$0.00330
Storm Recovery Adjustment Factor \$0.00221
April 2016 Default Service Charge \$0.03100
TOTAL \$0.05787

High Voltage Discount 1 for 4-13.8 kV 2.0%
High Voltage Discount 2 for 34.5 kV 3.5%
Transformer Ownership Credit \$/kVA \$0.50

Unitil Energy Systems, Inc. Typical Bill Impacts as a Result of Proposed Rates Impacts do NOT include the Electricity Consumption Tax Impact on OL Rate Customers											
	Nominal Watts	Lumens	Type	Current Average Monthly kWh	Proposed Average Monthly kWh	Percentage of Lights	Total Bill Using Rates Effective 12/1/2015	Total Bill Using Rates Proposed	Total Difference	% Total Difference	
Mercury Vapor:											
1	100	3,500	ST	40	43	15.8%	\$16.01	\$18.62	\$2.60	16.3%	
2	175	7,000	ST	67	71	0.8%	\$21.58	\$24.30	\$2.72	12.6%	
3	250	11,000	ST	95	100	0.9%	\$26.91	\$29.75	\$2.84	10.6%	
4	400	20,000	ST	154	157	1.8%	\$37.16	\$39.76	\$2.60	7.0%	
5	1,000	60,000	ST	388	372	0.0%	\$84.96	\$85.32	\$0.36	0.4%	
6	250	11,000	FL	95	100	0.8%	\$28.03	\$30.87	\$2.84	10.1%	
7	400	20,000	FL	154	157	1.3%	\$38.60	\$41.20	\$2.60	6.7%	
8	1,000	60,000	FL	388	380	0.2%	\$80.64	\$81.95	\$1.30	1.6%	
9	100	3,500	PB	40	48	4.4%	\$16.13	\$19.33	\$3.20	19.8%	
10	175	7000	PB	67	71	0.6%	\$20.74	\$23.46	\$2.72	13.1%	
High Pressure Sodium:											
11	50	4,000	ST	21	23	37.3%	\$13.99	\$16.48	\$2.49	17.8%	
12	100	9,500	ST	43	48	1.1%	\$18.23	\$21.07	\$2.84	15.6%	
13	150	16,000	ST	60	65	3.8%	\$20.30	\$23.14	\$2.84	14.0%	
14	250	30,000	ST	101	102	12.0%	\$28.86	\$31.23	\$2.37	8.2%	
15	400	50,000	ST	161	161	2.8%	\$40.75	\$43.00	\$2.25	5.5%	
16	1,000	140,000	ST	398	380	1.6%	\$85.64	\$85.76	\$0.12	0.1%	
17	150	16,000	FL	60	65	2.5%	\$22.54	\$25.38	\$2.84	12.6%	
18	250	30,000	FL	101	102	3.3%	\$30.42	\$32.79	\$2.37	7.8%	
19	400	50,000	FL	161	161	4.3%	\$40.23	\$42.48	\$2.25	5.6%	
20	1,000	140,000	FL	398	380	2.5%	\$85.99	\$86.11	\$0.12	0.1%	
21	50	4,000	PB	21	23	1.2%	\$13.02	\$15.51	\$2.49	19.1%	
22	100	9,500	PB	43	48	0.7%	\$17.10	\$19.94	\$2.84	16.6%	
Metal Halide											
23	175	8,800	ST	66	74	0.0%	\$25.46	\$28.65	\$3.20	12.6%	
24	250	13,500	ST	92	102	0.0%	\$30.20	\$33.64	\$3.43	11.4%	
25	400	23,500	ST	148	158	0.0%	\$37.60	\$41.03	\$3.43	9.1%	
26	175	8,800	FL	66	74	0.0%	\$28.43	\$31.62	\$3.20	11.2%	
27	250	13,500	FL	92	102	0.0%	\$33.26	\$36.70	\$3.43	10.3%	
28	400	23,500	FL	148	158	0.0%	\$39.93	\$43.36	\$3.43	8.6%	
30	175	8,800	PB	66	74	0.0%	\$24.23	\$27.42	\$3.20	13.2%	
31	250	13,500	PB	92	102	0.0%	\$28.43	\$31.87	\$3.43	12.1%	
32	400	23,500	PB	148	158	0.0%	\$36.37	\$39.80	\$3.43	9.4%	
29	1,000	86,000	FL	356	374	0.4%	\$71.60	\$75.98	\$4.38	6.1%	
Unitil Energy Systems, Inc. Rates - Effective 12/1/2015:							Unitil Energy Systems, Inc. Rates - Proposed:				
Customer Charge		\$0.00				Customer Charge		\$0.00			
		All kWh						All kWh			
Distribution Charge		\$0.00000				Distribution Charge		\$0.00000			
External Delivery Charge		\$0.02131				External Delivery Charge		\$0.02131			
Stranded Cost Charge		\$0.00018				Stranded Cost Charge		\$0.00018			
System Benefits Charge		\$0.00330				System Benefits Charge		\$0.00330			
Storm Recovery Adjustment Factor		\$0.00221				Storm Recovery Adjustment Factor		\$0.00221			
Fixed Default Service Charge		\$0.09131				Fixed Default Service Charge		\$0.09131			
TOTAL		\$0.11831				TOTAL		\$0.11831			
Luminaire Charges:							Luminaire Charges:				
Mercury Vapor Rate/Mo.		Sodium Vapor Rate/Mo.		Metal Halide Rate/Mo.		Mercury Vapor Rate/Mo.		Sodium Vapor Rate/Mo.		Metal Halide Rate/Mo.	
1	\$11.28 #	\$11.51	23	\$17.65		1	\$13.53 #	\$13.76	23	\$19.90	
2	\$13.65 #	\$13.14	24	\$19.32		2	\$15.90 #	\$15.39	24	\$21.57	
3	\$15.67 #	\$13.20	25	\$20.09		3	\$17.92 #	\$15.45	25	\$22.34	
4	\$18.94 #	\$16.91	26	\$20.62		4	\$21.19 #	\$19.16	26	\$22.87	
5	\$39.06 #	\$21.70	27	\$22.38		5	\$41.31 #	\$23.95	27	\$24.63	
6	\$16.79 #	\$38.55	28	\$22.42		6	\$19.04 #	\$40.80	28	\$24.67	
7	\$20.38 #	\$15.44	29	\$16.42		7	\$22.63 #	\$17.69	29	\$18.67	
8	\$34.74 #	\$18.47	30	\$17.55		8	\$36.99 #	\$20.72	30	\$19.80	
9	\$11.40 #	\$21.18	31	\$18.86		9	\$13.65 #	\$23.43	31	\$21.11	
#	\$12.81 #	\$38.90	32	\$29.48		#	\$15.06 #	\$41.15	32	\$31.73	
		\$10.54						\$12.79			
		\$12.01						\$14.26			

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