

UNITIL ENERGY SYSTEMS, INC.
 2022 Step Adjustment Rate Design

Row	Description	Units	Test Year 2020 Bill Units	Actual Rates & Revenue		Bill Units	Settlement Proposed Rates & Revenue		Difference Over Prior		2022 Step Adj Proposed Rates & Revenue		Difference Over Prior	
				Rate	Revenue		Rate	Revenue	Amount	%	Rate	Revenue	Amount	%
A	B	C	D	E	F	G	H	I	J	K	L	M	O	P
1	Domestic													
2	Customer Charge		815,280	\$ 16.22	\$ 13,223,834	815,280	\$ 16.22	\$ 13,223,834	\$ -	0.0%	\$ 16.22	\$ 13,223,834	\$ -	0.0%
3	Energy Charge	kWh	515,968,592	\$ 0.03558	\$ 18,358,163	515,968,592	\$ 0.04392	\$ 22,661,341	\$ 4,303,178	23.4%	\$ 0.04545	\$ 23,450,773	\$ 789,432	3.5%
4	Subtotal: Domestic				\$ 31,581,996			\$ 35,885,174				\$ 36,674,606		
5	Total Schedule D				\$ 31,581,996			\$ 35,885,174	\$ 4,303,178	13.6%		\$ 36,674,606	\$ 789,432	2.2%
6	G2 - kWh													
7	Customer Charge		4,543	\$ 18.38	\$ 83,500	4,543	\$ 18.38	\$ 83,500	\$ -	0.0%	\$ 18.38	\$ 83,500	\$ -	0.0%
8	Energy Charge	kWh	438,744	\$ 0.00883	\$ 3,874	438,744	\$ 0.02519	\$ 11,052	\$ 7,178	185.3%	\$ 0.02993	\$ 13,132	\$ 2,080	18.8%
9	Subtotal G2 kWh				\$ 87,374			\$ 94,552	\$ 7,178	8.2%		\$ 96,632	\$ 2,080	2.2%
10	G2 QR WH /SH													
11	Customer Charge		3,089	\$ 9.73	\$ 30,056	3,089	\$ 9.73	\$ 30,056	\$ -	0.0%	\$ 9.73	\$ 30,056	\$ -	0.0%
12	Energy Charge	kWh	4,483,579	\$ 0.03204	\$ 143,654	4,483,579	\$ 0.03522	\$ 157,912	\$ 14,258	9.9%	\$ 0.03614	\$ 162,037	\$ 4,125	2.6%
13	Subtotal G2 QR WH/SH		7,632		\$ 173,710	7,632		\$ 187,968	\$ 14,258	8.2%		\$ 192,093	\$ 4,125	2.2%
14	G2 Demand													
15	Customer Charge		126,712	\$ 29.19	\$ 3,698,724	126,712	\$ 29.19	\$ 3,698,724	\$ -	0.0%	\$ 29.19	\$ 3,698,724	\$ -	0.0%
16	Demand Charge	kW	1,234,532	\$ 10.51	\$ 12,974,933	1,234,532	\$ 11.62	\$ 14,345,264	\$ 1,370,331	10.6%	\$ 11.94	\$ 14,740,314	\$ 395,050	2.8%
17	Transformer Ownership credit	kW	36,843	\$ (0.50)	\$ (18,421)	36,843	\$ (0.50)	\$ (18,421)	\$ -	0.0%	\$ (0.50)	\$ (18,421)	\$ -	0.0%
18	Energy Charge	kWh	312,134,498	\$ -	\$ -	312,134,498	\$ -	\$ -	\$ -	0.0%	\$ -	\$ -	\$ -	0.0%
19	Subtotal G2 Demand				\$ 16,655,236			\$ 18,025,567	\$ 1,370,331	8.2%		\$ 18,420,617	\$ 395,050	2.2%
20	Total G2				\$ 16,916,320			\$ 18,308,087	\$ 1,391,766	8.2%		\$ 18,709,341	\$ 401,255	2.2%
21	G1													
22	Customer Charge													
23	Secondary		1,615	\$ 162.18	\$ 261,921	1,615	\$ 162.18	\$ 261,921	\$ -	0.0%	\$ 162.18	\$ 261,921	\$ -	0.0%
24	Primary		395	\$ 86.49	\$ 34,164	395	\$ 86.49	\$ 34,164	\$ -	0.0%	\$ 86.49	\$ 34,164	\$ -	0.0%
25	Subtotal: Customer Charge				\$ 296,084			\$ 296,084	\$ -	0.0%		\$ 296,084	\$ -	0.0%
26	Demand Charge	kVA	1,000,283	\$ 7.60	\$ 7,602,153	1,000,283	\$ 8.23	\$ 8,232,332	\$ 630,178	8.3%	\$ 8.41	\$ 8,412,383	\$ 180,051	2.2%
27	Energy Charge	kWh	319,767,459	\$ -	\$ -	319,767,459	\$ -	\$ -	\$ -	0.0%	\$ -	\$ -	\$ -	0.0%
28	Transformer Ownership credit	kVA	323,647	\$ (0.50)	\$ (161,824)	323,647	\$ (0.50)	\$ (161,824)	\$ -	0.0%	\$ (0.50)	\$ (161,824)	\$ -	0.0%
29	Total G1				\$ 7,736,414			\$ 8,366,592	\$ 630,178	8.1%		\$ 8,546,643	\$ 180,051	2.2%
30	OL													
31	100W Mercury Vapor Street		13,919	\$ 13.28	\$ 184,842	13,919	\$ 13.73	\$ 191,071	\$ 6,230	3.4%	\$ 13.73	\$ 191,071	\$ -	0.0%
32	175W Mercury Vapor Street		793	\$ 15.75	\$ 12,493	793	\$ 15.73	\$ 12,481	\$ (12)	-0.1%	\$ 15.73	\$ 12,481	\$ -	0.0%
33	250W Mercury Vapor Street		771	\$ 17.85	\$ 13,754	771	\$ 17.25	\$ 13,294	\$ (459)	-3.3%	\$ 17.25	\$ 13,294	\$ -	0.0%
34	400W Mercury Vapor Street		1,298	\$ 21.25	\$ 27,584	1,298	\$ 17.25	\$ 22,397	\$ (5,187)	-18.8%	\$ 17.25	\$ 22,397	\$ -	0.0%
35	1000W Mercury Vapor Street		24	\$ 42.19	\$ 1,013	24	\$ 24.78	\$ 595	\$ (418)	-41.3%	\$ 24.78	\$ 595	\$ -	0.0%
36	250W Mercury Vapor Flood		665	\$ 19.02	\$ 12,652	665	\$ 18.25	\$ 12,143	\$ (509)	-4.0%	\$ 18.25	\$ 12,143	\$ -	0.0%
37	400W Mercury Vapor Flood		901	\$ 22.75	\$ 20,505	901	\$ 21.57	\$ 19,445	\$ (1,060)	-5.2%	\$ 21.57	\$ 19,445	\$ -	0.0%
38	1000W Mercury Vapor Flood		144	\$ 37.70	\$ 5,429	144	\$ 25.29	\$ 3,641	\$ (1,787)	-32.9%	\$ 25.29	\$ 3,641	\$ -	0.0%
39	100W Mercury Vapor Power Bracket		3,894	\$ 13.41	\$ 52,213	3,894	\$ 13.44	\$ 52,339	\$ 126	0.2%	\$ 13.44	\$ 52,339	\$ -	0.0%
40	175W Mercury Vapor Power Bracket		557	\$ 14.87	\$ 8,277	557	\$ 14.65	\$ 8,154	\$ (123)	-1.5%	\$ 14.65	\$ 8,154	\$ -	0.0%
41	50W Sodium Vapor Street		35,908	\$ 13.52	\$ 485,479	35,908	\$ 13.73	\$ 492,933	\$ 7,453	1.5%	\$ 13.73	\$ 492,933	\$ -	0.0%
42	100W Sodium Vapor Street		1,309	\$ 15.22	\$ 19,930	1,309	\$ 15.73	\$ 20,604	\$ 674	3.4%	\$ 15.73	\$ 20,604	\$ -	0.0%

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 2022 Step Adjustment Rate Design

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				Rate	Revenue		Rate	Revenue	Amount	%	Rate	Revenue	Amount	%
A	B	C	D	E	F	G	H	I	J	K	L	M	O	P
43	150W Sodium Vapor Street		3,906	\$ 15.28	\$ 59,691	3,906	\$ 17.25	\$ 67,402	\$ 7,711	12.9%	\$ 17.25	\$ 67,402	\$ -	0.0%
44	250W Sodium Vapor Street		12,893	\$ 19.14	\$ 246,776	12,893	\$ 19.53	\$ 251,813	\$ 5,037	2.0%	\$ 19.53	\$ 251,813	\$ -	0.0%
45	400W Sodium Vapor Street		2,711	\$ 24.13	\$ 65,421	2,711	\$ 24.78	\$ 67,195	\$ 1,774	2.7%	\$ 24.78	\$ 67,195	\$ -	0.0%
46	1000W Sodium Vapor Street		1,606	\$ 41.66	\$ 66,885	1,606	\$ 42.51	\$ 68,250	\$ 1,365	2.0%	\$ 42.51	\$ 68,250	\$ -	0.0%
47	150W Sodium Vapor Flood		2,690	\$ 17.61	\$ 47,379	2,690	\$ 18.25	\$ 49,114	\$ 1,734	3.7%	\$ 18.25	\$ 49,114	\$ -	0.0%
48	250W Sodium Vapor Flood		3,790	\$ 20.76	\$ 78,671	3,790	\$ 21.57	\$ 81,756	\$ 3,084	3.9%	\$ 21.57	\$ 81,756	\$ -	0.0%
49	400W Sodium Vapor Flood		4,857	\$ 23.58	\$ 114,525	4,857	\$ 25.29	\$ 122,818	\$ 8,293	7.2%	\$ 25.29	\$ 122,818	\$ -	0.0%
50	1000W Sodium Vapor Flood		2,467	\$ 42.03	\$ 103,675	2,467	\$ 42.89	\$ 105,791	\$ 2,116	2.0%	\$ 42.89	\$ 105,791	\$ -	0.0%
51	50W Sodium Vapor Power Bracket		1,387	\$ 12.51	\$ 17,355	1,387	\$ 13.44	\$ 18,649	\$ 1,294	7.5%	\$ 13.44	\$ 18,649	\$ -	0.0%
52	100W Sodium Vapor Power Bracket		904	\$ 14.04	\$ 12,691	904	\$ 14.65	\$ 13,242	\$ 551	4.3%	\$ 14.65	\$ 13,242	\$ -	0.0%
53	175W Metal Halide Street		1	\$ 19.91	\$ 20	1	\$ 17.25	\$ 17	\$ (3)	-13.3%	\$ 17.25	\$ 17	\$ -	0.0%
54	250W Metal Halide Street		0	\$ 21.65	\$ -	0	Discontinued				Discontinued			
55	400W Metal Halide Street		0	\$ 22.45	\$ -	0	Discontinued				Discontinued			
56	175W Metal Halide Flood		0	\$ 23.00	\$ -	0	Discontinued				Discontinued			
57	250W Metal Halide Flood		0	\$ 24.83	\$ -	0	Discontinued				Discontinued			
58	400W Metal Halide Flood		0	\$ 24.88	\$ -	0	Discontinued				Discontinued			
59	175W Metal Halide Power Bracket		0	\$ 18.63	\$ -	0	Discontinued				Discontinued			
60	250W Metal Halide Power Bracket		0	\$ 19.81	\$ -	0	Discontinued				Discontinued			
61	400W Metal Halide Power Bracket		0	\$ 21.17	\$ -	0	Discontinued				Discontinued			
62	1000W Metal Halide Flood (Contracts)		535	\$ 32.22	\$ 17,222	535	\$ 25.29	\$ 13,516	\$ (3,705)	-21.5%	\$ 25.29	\$ 13,516	\$ -	0.0%
63	LED													
64	42W 3780 K LED Area Light Fixture		0	\$ 13.16	\$ -	0	Discontinued				Discontinued			
65	57W 5130K LED Area Light Fixture		0	\$ 13.21	\$ -	0	Discontinued				Discontinued			
66	25W 2500K LED Cobra Head Fixture		0	\$ 13.11	\$ -	0	Discontinued				Discontinued			
67	88W 8800K LED Cobra Head Fixture		0	\$ 13.30	\$ -	0	Discontinued				Discontinued			
68	108W 10800K LED Cobra Head Fixture		0	\$ 13.36	\$ -	0	Discontinued				Discontinued			
69	193W 19300K LED Cobra Head Fixture		0	\$ 13.62	\$ -	0	Discontinued				Discontinued			
70	123W 11070K LED Flood Light Fixture		0	\$ 13.41	\$ -	0	Discontinued				Discontinued			
71	227W 20340K LED Flood Light Fixture		0	\$ 13.62	\$ -	0	Discontinued				Discontinued			
72	365W 32850K LED Flood Light Fixture		0	\$ 13.93	\$ -	0	Discontinued				Discontinued			
73	Company Paid LED Fixture													
74	STREETLIGHT LED 30W						\$ 13.73				\$ 13.73			
75	STREETLIGHT LED 50W						\$ 15.73				\$ 15.73			
76	STREETLIGHT LED 100W						\$ 17.25				\$ 17.25			
77	STREETLIGHT LED 120W						\$ 19.53				\$ 19.53			
78	STREETLIGHT LED 140W						\$ 24.78				\$ 24.78			
79	STREETLIGHT LED 260W						\$ 42.51				\$ 42.51			
80	YARDLIGHT LED 35W						\$ 13.44				\$ 13.44			
81	YARDLIGHT LED 47W						\$ 14.65				\$ 14.65			
82	FLOODLIGHT LED 70W						\$ 18.25				\$ 18.25			
83	FLOODLIGHT LED 90W						\$ 21.57				\$ 21.57			
84	FLOODLIGHT LED 110W						\$ 25.29				\$ 25.29			
85	FLOODLIGHT LED 370W						\$ 42.89				\$ 42.89			
86	Customer Paid LED Fixture													
87	STREETLIGHT LED 30W						\$ 9.71				\$ 9.71			
88	STREETLIGHT LED 50W						\$ 11.92				\$ 11.92			
89	STREETLIGHT LED 100W						\$ 12.48				\$ 12.48			
90	STREETLIGHT LED 120W						\$ 14.76				\$ 14.76			
91	STREETLIGHT LED 140W						\$ 17.83				\$ 17.83			
92	STREETLIGHT LED 260W						\$ 33.56				\$ 33.56			
93	YARDLIGHT LED 35W						\$ 7.00				\$ 7.00			
94	YARDLIGHT LED 47W						\$ 8.21				\$ 8.21			
95	FLOODLIGHT LED 70W						\$ 11.24				\$ 11.24			
96	FLOODLIGHT LED 90W						\$ 14.56				\$ 14.56			
97	FLOODLIGHT LED 110W						\$ 17.36				\$ 17.36			
98	FLOODLIGHT LED 370W						\$ 27.00				\$ 27.00			
99	Special Agreement Customer Installed LED		10,671	per contracts	\$ 140,376	10,671	per contracts	\$ 106,541	\$ (33,835)	-24.1%	per contracts	\$ 106,541	\$ -	0.0%
100	Pole Charges				\$ 8,639			\$ 8,639	\$ -	0.0%		\$ 8,639	\$ -	0.0%
101	Total OL				\$ 1,823,495			\$ 1,823,840	\$ 345	0.0%		\$ 1,823,840	\$ -	0.0%
102	Total System				\$ 58,058,225			\$ 64,383,693	\$ 6,325,468	10.9%		\$ 65,754,431	\$ 1,370,738	

Unitil Energy Systems, Inc.
2022 Step Adjustment Rate Design
Residential Whole House TOU and Electric Vehicle Rates
Effective June 1, 2022 ⁽¹⁾

	Summer (June - Nov)			Winter (Dec - May)		
	Rates at April 1, 2022 ⁽²⁾	Step Adjustment Percentage Increase ⁽³⁾	June 1, 2022 Rates	Rates at April 1, 2022 ⁽²⁾	Step Adjustment Percentage Increase ⁽³⁾	June 1, 2022 Rates
1 Schedule TOU-D and EV-D (Note: Rates are the same except for customer charges.)						
2						
3 Customer Charge TOU-D:	\$ 16.22	0.0%	\$ 16.22	\$ 16.22	0.0%	\$ 16.22
4 Customer Charge EV -D:	\$ 5.26	0.0%	\$ 5.26	\$ 5.26	0.0%	\$ 5.26
5						
6 Distribution Charges:						
7 Off Peak (\$/kWh) (8 pm - 6 am, and weekends/holidays)	\$ 0.03874	3.5%	\$ 0.04009	\$ 0.03777	3.5%	\$ 0.03909
8 Mid Peak (\$/kWh) (6 am -3 pm, M-F)	\$ 0.05472	3.5%	\$ 0.05663	\$ 0.05178	3.5%	\$ 0.05358
9 On Peak (\$/kWh) (3 pm - 8 pm, M-F)	\$ 0.04943	3.5%	\$ 0.05115	\$ 0.04467	3.5%	\$ 0.04623
10						
11 Schedule EV-TOU-G2						
12						
13 Customer Charge:	\$ 29.19	0.0%	\$ 29.19	\$ 29.19	0.0%	\$ 29.19
14						
15 Distribution Charges:						
16 Distribution Demand Rate (\$/kW)	\$ 5.81	2.8%	\$ 5.97	\$ 5.81	2.8%	\$ 5.97
17						
18 Off Peak (\$/kWh) (8 pm - 6 am, and weekends/holidays)	\$ 0.02248	2.8%	\$ 0.02310	\$ 0.02101	2.8%	\$ 0.02159
19 Mid Peak (\$/kWh) (6 am -3 pm, M-F)	\$ 0.02149	2.8%	\$ 0.02209	\$ 0.02059	2.8%	\$ 0.02115
20 On Peak (\$/kWh) (3 pm - 8 pm, M-F)	\$ 0.03098	2.8%	\$ 0.03183	\$ 0.02604	2.8%	\$ 0.02675
21						
22 Schedule EV-TOU-G1						
23						
24 Customer Charge (secondary voltage):	\$ 162.18	0.0%	\$ 162.18	\$ 162.18	0.0%	\$ 162.18
25 Customer Charge (primary voltage):	\$ 86.49	0.0%	\$ 86.49	\$ 86.49	0.0%	\$ 86.49
26						
27 Distribution Charges:						
28 Distribution Demand Rate (\$/kVa)	\$ 4.12	2.2%	\$ 4.21	\$ 4.12	2.2%	\$ 4.21
29						
30 Off Peak (\$/kWh) (8 pm - 6 am, and weekends/holidays)	\$ 0.01197	2.2%	\$ 0.01223	\$ 0.01177	2.2%	\$ 0.01203
31 Mid Peak (\$/kWh) (6 am -3 pm, M-F)	\$ 0.01296	2.2%	\$ 0.01325	\$ 0.01240	2.2%	\$ 0.01267
32 On Peak (\$/kWh) (3 pm - 8 pm, M-F)	\$ 0.01766	2.2%	\$ 0.01805	\$ 0.01516	2.2%	\$ 0.01549
33						

34 (1) Subject to approval in DE 20-170.

35 Pursuant to the Settlement in DE 20-170, the EV TOU rates shall take effect June 1, 2022 or within 90 days of a Commission Order, whichever is later. Pursuant to
36 the Settlement in DE 21-030, the parties agreed that Schedule TOU-D shall take effect at the same time as EV-TOU-D, but if no rate is yet approved, Schedule TOU-D
37 shall be implemented no later than August 1, 2022.

38 (2) For Schedule TOU-D (and TOU-EV-D), see DE 21-030 Settlement Attachment 8.

39 For Schedule TOU-EV-G2 and TOU-EV-G1, see DE 20-170 Exhibit 24 Revised, Attachment A Illustrative Rates. The EV demand and energy charges in Attachment A
40 were designed based on the current G2 and G1 demand charges (pre April 1, 2022) and have been adjusted to April 1, 2022 by the percentage change below
41 consistent with the Settlement in DE 20-170.

	Current March 1, 2022	Settlement April 1, 2022	% Change
44 G2 Demand Charge	\$ 10.51	\$ 11.62	10.6%
45 G1 Demand Charge	\$ 7.60	\$ 8.23	8.3%

46 (3) See pages 1 and 2. Demand and energy rates adjusted by the same percentage as the corresponding rate class consistent with the Settlement in DE 21-030.