DE 20-170 Page 1 of 3

Unitil Energy Systems, Inc. Domestic Delivery Service Schedule TOU-EV-D Rate Development

Effective July 1, 2022, excludes Step Adjustment

	Vo F	Summer columetric Rates (1) e 1 - Nov 30	Ratios to Current Rate	Ratios applied to ne 1, 2022 Rates	Winter Volumetric Rates (1) Dec 1 - May 31	Ratios to Current Rate	Ratios pplied to ne 1, 2022 Rates
1 Customer Charge:				\$ 5.26			\$ 5.26
2							
3 Current Dist. Chg.		0.03558	7/1/22 Dist.Chg	\$ 0.04333	0.03558		\$ 0.04333
4 Distribution Charge:							
5 Off Peak kWH (M-F 8 pm - 6 am, all day weekends and weekday holidays)	\$	0.03138	0.88	\$ 0.03822	\$ 0.03060	0.86	\$ 0.03727
6 Mid Peak kWh (M-F 6 am -3 pm excluding weekday holidays)	\$	0.04433	1.25	\$ 0.05399	\$ 0.04195	1.18	\$ 0.05109
7 On Peak kWh (M-F 3 pm - 8 pm excluding weekday holidays)	\$	0.04004	1.13	\$ 0.04876	\$ 0.03619	1.02	\$ 0.04407
8							
9 8/1/20 Trans Chg excl reconciliation and interest	\$	0.03224	8/1/21 Trans Chg	\$ 0.03265	\$ 0.03224		\$ 0.03265
10 External Delivery Charge- Transmission:							
11 Off Peak kWH (M-F 8 pm - 6 am, all day weekends and weekday holidays)	\$	-		\$ -	\$ 0.00172	0.05	\$ 0.00174
12 Mid Peak kWh (M-F 6 am -3 pm excluding weekday holidays)	\$	0.02070	0.64	\$ 0.02096	\$ 0.00370	0.11	\$ 0.00375
13 On Peak kWh (M-F 3 pm - 8 pm excluding weekday holidays)	\$	0.13961	4.33	\$ 0.14139	\$ 0.16208	5.03	\$ 0.16414
14 All hours kWh - reconciliation and interest	\$	0.00408		\$ (0.00152)	\$ 0.00408		\$ (0.00152)
15							
16 6/1/20 and 12/1/20 DS Chg with annual RPS	\$	0.07011	6/1/22 DS Chg.	\$ 0.10117	\$ 0.09291	12/1/21 DS Chg.	\$ 0.17518
17 Default Service Charge:							
18 Off Peak kWH (M-F 8 pm - 6 am, all day weekends and weekday holidays)	\$	0.05885	0.84	\$ 0.08492	\$ 0.05833	0.63	\$ 0.10998
19 Mid Peak kWh (M-F 6 am -3 pm excluding weekday holidays)	\$	0.07266	1.04	\$ 0.10485		0.64	\$ 0.11205
20 On Peak kWh (M-F 3 pm - 8 pm excluding weekday holidays)	\$	0.26801	3.82	\$ 0.38674	\$ 0.07151	0.77	\$ 0.13483
21							
22 External Delivery Charge - non Transmission (\$/kWh)				\$ (0.00135)			\$ (0.00135)
23 Stranded Cost Charge (\$/kWh)				\$ (0.00002)			\$ (0.00002)
24 System Benefits Charge (\$/kWh)				\$ 0.00681			\$ 0.00681
25 Storm Recovery Adjustment Factor (\$/kWh)				\$ -			\$ -
26							
27 Total kWh Charges:							
28 Off Peak kWH (8 pm - 6 am, and weekends/holidays)				\$ 0.12314			\$ 0.14899
29 Mid Peak kWh (6 am -3 pm, M-F)				\$ 0.17980			\$ 0.16689
30 On Peak kWh (3 pm - 8 pm, M-F)				\$ 0.57689			\$ 0.34304
31 All hours kWh				\$ 0.00392			\$ 0.00392
32							
33 (1) Time Of Use Rates - See DE 20-170 Exhibit 24 Revised, Attachment A Illustrative Rates							

DE 20-170 Page 1b of 3

Unitil Energy Systems, Inc. Schedule TOU-D and TOU-EV-D Comparison of Rates and Ratios from Exh. 24 Revised Attachment A and July 1, 2022 Rates and Ratios

1	V Exh	Summer olumetric Rates .24 Revised achment A	Ju Ratio to Mid-Peak	ily 1, 2022 Volumetric Rates	Ratio to Mid-Peak	Winter Volumetric Rates Exh.24 Revised Attachment A	Ratio to Mid-Peak	Current Winter Volumetric Rates	Ratio to Mid-Peak
2									
3									
4 Distribution Charge:	\$	0.03558	Ç	0.04333		\$ 0.03558	Ç	0.04333	
5 Off Peak kWH (M-F 8 pm - 6 am, all day weekends and weekday holidays)	\$	0.03138	70.8% \$	0.03822	70.8%	\$ 0.03060	72.9% \$	0.03727	72.9%
6 Mid Peak kWh (M-F 6 am -3 pm excluding weekday holidays)	\$	0.04433	100.0%	0.05399	100.0%	\$ 0.04195	100.0%	0.05109	100.0%
7 On Peak kWh (M-F 3 pm - 8 pm excluding weekday holidays)	\$	0.04004	90.3%	0.04876	90.3%	\$ 0.03619	86.3%	0.04407	86.3%
8									
9									
10 External Delivery Charge- Transmission:	\$	0.03224	ç	0.03265		\$ 0.03224	9	0.03265	
11 Off Peak kWH (M-F 8 pm - 6 am, all day weekends and weekday holidays)	\$	-	0.0%	-	0.0%	\$ 0.00172	46.5%	0.00174	46.5%
12 Mid Peak kWh (M-F 6 am -3 pm excluding weekday holidays)	\$	0.02070	100.0%	0.02096	100.0%	\$ 0.00370	100.0%	0.00375	100.0%
13 On Peak kWh (M-F 3 pm - 8 pm excluding weekday holidays)	\$	0.13961	674.4%	0.14139	674.4%	\$ 0.16208	4380.5%	0.16414	4380.5%
14 All hours kWh - reconciliation and interest									
15 Excludes all hours reconciliation and interest component of \$0.00408 per kWh included in Exh.	.24 Revise	ed							
16									
17 Default Service Charge:	\$	0.07011	Ş	0.10117		\$ 0.09291	Ç	0.17518	
18 Off Peak kWH (M-F 8 pm - 6 am, all day weekends and weekday holidays)	\$	0.05885	81.0%	0.08492	81.0%	\$ 0.05833	98.1%	0.10998	98.1%
19 Mid Peak kWh (M-F 6 am -3 pm excluding weekday holidays)	\$	0.07266	100.0% \$	0.10485	100.0%	\$ 0.05943	100.0%	0.11205	100.0%
20 On Peak kWh (M-F 3 pm - 8 pm excluding weekday holidays)	\$	0.26801	368.9% \$	0.38674	368.9%	\$ 0.07151	120.3%	0.13483	120.3%
21									

22 Note: Small variances in ratios due to rounding.

DE 20-170 Page 2 of 3

Unitil Energy Systems, Inc. General Domestic Delivery Service Schedule TOU-EV-G2 Rate Development

Effective July 1, 2022

1 Customer Charge: 2 Distribution Demand Charge (half 5/1/22 rate): 3 4	Vo Ri June \$	ummer lumetric ates (1) 1 - Nov 30 5.26 0.02046 0.02033 0.01944	Ratios to Current Rate 7/1/22 Dist.Chg 7/1/22 Dist.Chg 0.99 0.95	\$ \$ \$ \$	Ratios Applied to une 1, 2022 Rates 29.19 5.77 0.02247 0.02232 0.02135	Vo F Dec	Winter blumetric Rates (1) 1 - May 31 0.02046 0.01900 0.01862	0.93 0.91	\$ \$ \$ \$ \$	Ratios pplied to ne 1, 2022 Rates 29.19 5.77 0.02247 0.02086 0.02044
8 On Peak kWh (M-F 3 pm - 8 pm excluding weekday holidays)	\$	0.02802	1.37	\$	0.03077	\$	0.02355	1.15	\$	0.02586
9 10 8/1/20 Trans Chg excl reconciliation and interest 11 External Delivery Charge- Transmission:	; \$	0.03224	8/1/21 Trans Chg	\$	0.03265	\$	0.03224		\$	0.03265
12 Off Peak kWH (M-F 8 pm - 6 am, all day weekends and weekday holidays)	\$	_		Ś	_	\$	0.00185	0.06	\$	0.00187
13 Mid Peak kWh (M-F 6 am -3 pm excluding weekday holidays)	\$	0.01579	0.49		0.01599	\$	0.00285	0.09	\$	0.00289
14 On Peak kWh (M-F 3 pm - 8 pm excluding weekday holidays)	\$	0.16990	5.27		0.17206		0.18339	5.69		0.18572
15 All hours kWh - reconciliation and interest	\$	0.00408		\$	(0.00152)	\$	0.00408		\$	(0.00152)
16										
17 6/1/20 and 12/1/20 DS Chg with annual RP:	\$ \$	0.05897	6/1/22 DS Chg.	\$	0.09370	\$	0.08678	12/1/21 DS Chg.	\$	0.15381
18 Default Service Charge:										
19 Off Peak kWH (M-F 8 pm - 6 am, all day weekends and weekday holidays)	\$	0.04919	0.83	\$	0.07816	\$	0.05390	0.62	\$	0.09553
20 Mid Peak kWh (M-F 6 am -3 pm excluding weekday holidays)	\$	0.06216	1.05	\$	0.09877	\$	0.05620	0.65	\$	0.09961
21 On Peak kWh (M-F 3 pm - 8 pm excluding weekday holidays)	\$	0.25774	4.37	\$	0.40953	\$	0.06809	0.78	\$	0.12068
22										
23 External Delivery Charge - non Transmission (\$/kWh)				\$	(0.00135)				\$	(0.00135)
24 Stranded Cost Charge (\$/kWh)				\$	(0.00002)				\$	(0.00002)
25 System Benefits Charge (\$/kWh)				\$	0.00681				\$	0.00681
26 Storm Recovery Adjustment Factor (\$/kWh)				Ş	-				\$	-
27										
28 Total kWh Charges:				,	0.10040				ċ	0.11027
29 Off Peak kWH (8 pm - 6 am, and weekends/holidays) 30 Mid Peak kWh (6 am -3 pm, M-F)				\$	0.10048 0.13610				\$ \$	0.11827 0.12294
31 On Peak kWh (3 pm - 8 pm, M-F)				ç	0.13610				\$ \$	0.12294
32 All hours kWh				۶ \$	0.01230				۶ \$	0.33220
33				ڔ	0.00332				Y	0.00392
34 (1) Time Of Use Rates - See DE 20-170 Exhibit 24 Revised, Attachment A Illustrative Rate	:S									
, ,										

Unitil Energy Systems, Inc. Schedule TOU-EV-G2

Comparison of Rates and Ratios from Exh. 24 Revised Attachment A and July 1, 2022 Rates and Ratios

1	V Exh	Summer olumetric Rates .24 Revised achment A	Ratio to Mid-Peak	July 1, 2022 Volumetric Rates	Ratio to Mid-Peak	Winter Volumetric Rates Exh.24 Revised Attachment A	Ratio to Mid-Peak	Current Winter Volumetric Rates	Ratio to Mid-Peak
2									
3									
4 5 Distribution Energy Charge:	\$	0.02046	\$	0.02247		\$ 0.02046	\$	0.02247	
6 Off Peak kWH (M-F 8 pm - 6 am, all day weekends and weekday holidays)	\$	0.02033	104.6% \$	0.02232	104.6%	\$ 0.01900	102.0% \$	0.02086	102.0%
7 Mid Peak kWh (M-F 6 am -3 pm excluding weekday holidays)	\$	0.01944	100.0% \$	0.02135	100.0%	\$ 0.01862	100.0% \$	0.02044	100.0%
8 On Peak kWh (M-F 3 pm - 8 pm excluding weekday holidays)	\$	0.02802	144.1% \$	0.03077	144.1%	\$ 0.02355	126.5% \$	0.02586	126.5%
9 10									
11 External Delivery Charge- Transmission:	\$	0.03224	\$	0.03265		\$ 0.03224	\$	0.03265	
12 Off Peak kWH (M-F 8 pm - 6 am, all day weekends and weekday holidays)	\$	-	0.0% \$	-	0.0%	\$ 0.00185	64.9% \$	0.00187	64.9%
13 Mid Peak kWh (M-F 6 am -3 pm excluding weekday holidays)	\$	0.01579	100.0% \$	0.01599	100.0%	\$ 0.00285	100.0% \$	0.00289	100.0%
14 On Peak kWh (M-F 3 pm - 8 pm excluding weekday holidays)	\$	0.16990	1076.0% \$	0.17206	1076.0%	\$ 0.18339	6434.7% \$	0.18572	6434.7%
15 All hours kWh - reconciliation and interest									
16 Excludes all hours reconciliation and interest component of \$0.00408 per kWh included in Exh.2 17	4 Revised								
18 Default Service Charge:	\$	0.05897	\$	0.09370		\$ 0.08678	\$	0.15381	
19 Off Peak kWH (M-F 8 pm - 6 am, all day weekends and weekday holidays)	\$	0.04919	79.1% \$	0.07816	79.1%	\$ 0.05390	95.9% \$	0.09553	95.9%
20 Mid Peak kWh (M-F 6 am -3 pm excluding weekday holidays)	\$	0.06216	100.0% \$	0.09877	100.0%	\$ 0.05620	100.0% \$	0.09961	100.0%
21 On Peak kWh (M-F 3 pm - 8 pm excluding weekday holidays)	\$	0.25774	414.6% \$	0.40953	414.6%	\$ 0.06809	121.2% \$	0.12068	121.2%
22									

23 Note: Small variances in ratios due to rounding.

DE 20-170 Page 3 of 3

Unitil Energy Systems, Inc. General Domestic Delivery Service Schedule TOU-EV-G1 Rate Development Effective July 1, 2022

		Vo	Summer olumetric	Ratios to		Ratios Applied to une 1, 2022	Vo	Winter olumetric tates (1)	Ratios to		Ratios pplied to ne 1, 2022
			ates (1) 1 - Nov 30	Current Rate	J	Rates		` '	Current Rate	Jui	Rates
1 Customer Charge	e secondary voltage:	June	1-1100 30	Current Nate	Ś	162.18	Dec	1 - Way 51	current nate	\$	162.18
2 Customer Charge	. •				\$	86.49				\$	86.49
•	nand Charge (half 5/1/22 rate):	\$	3.80	7/1/22 Dist.Chg	\$	4.10				\$	4.10
4											
5	Current Dist. Chg. (remaining half)	\$	0.01189	7/1/22 Dist.Chg	\$	0.01281	\$	0.01189		\$	0.01281
6 Distribution Ener	gy Charge:										
7 Off Peak kWH (M	-F 8 pm - 6 am, all day weekends and weekday holidays)	\$	0.01105	0.93	\$	0.01191	\$	0.01087	0.91	\$	0.01171
8 Mid Peak kWh (M	1-F 6 am -3 pm excluding weekday holidays)	\$	0.01197	1.01	\$	0.01290	\$	0.01145	0.96	\$	0.01234
9 On Peak kWh (M-	-F 3 pm - 8 pm excluding weekday holidays)	\$	0.01631	1.37	\$	0.01758	\$	0.01400	1.18	\$	0.01509
10											
11	8/1/20 Trans Chg excl reconciliation and interest	\$	0.03224	8/1/21 Trans Chg	\$	0.03265	\$	0.03224		\$	0.03265
12 External Delivery	Charge- Transmission:										
13 Off Peak kWH (M	-F 8 pm - 6 am, all day weekends and weekday holidays)	\$	-		\$	-	\$	0.00183	0.06	\$	0.00185
14 Mid Peak kWh (M	1-F 6 am -3 pm excluding weekday holidays)	\$	0.01673	0.52	\$	0.01694	\$	0.00302	0.09	\$	0.00306
15 On Peak kWh (M-	-F 3 pm - 8 pm excluding weekday holidays)	\$	0.17016	5.28	\$	0.17232	\$	0.18768	5.82	\$	0.19007
16 All hours kWh - r	reconciliation and interest	\$	0.00408		\$	(0.00152)	\$	0.00408		\$	(0.00152)
17											
18 External Delivery	Charge - non Transmission (\$/kWh)				\$	(0.00135)				\$	(0.00135)
19 Stranded Cost Ch	narge (\$/kWh)				\$	(0.00002)				\$	(0.00002)
20 System Benefits	Charge (\$/kWh)				\$	0.00681				\$	0.00681
21 Storm Recovery	Adjustment Factor (\$/kWh)				\$	-				\$	-
22											
23 Total kWh Charge	es (exclude Default Service all hours market rate):										
24 Off Peak kWH (8	pm - 6 am, and weekends/holidays)				\$	0.01191				\$	0.01357
25 Mid Peak kWh (6	am -3 pm, M-F)				\$	0.02984				\$	0.01540
26 On Peak kWh (3 p	om - 8 pm, M-F)				\$	0.18990				\$	0.20515
27 All hours kWh					\$	0.00392				\$	0.00392
28											
29 (1) Time Of Use F	Rates - See DE 20-170 Exhibit 24 Revised, Attachment A Illu	ustrati	ive Rates								

Unitil Energy Systems, Inc. Schedule TOU-EV-G1 Comparison of Rates and Ratios from Exh. 24 Revised Attachment A and July 1, 2022 Rates and Ratios

		Vo Exh.	Summer Dlumetric Rates 24 Revised achment A	J Ratio to Mid-Peak	•	, 2022 Dlumetric Rates	Ratio to Mid-Peak	Exh	Winter /olumetric Rates 1.24 Revised tachment A	Ratio to Mid-Peak	Current Winter Volumetric Rates	Ratio to Mid-Peak
1			acilinent A	IVIIU-I Cak		Nates	IVIIU-I Cak	Λι.	taciiiieiit A	WIIG-I Cak	Nates	Wild-i Cak
2												
3												
4												
5	Distribution Energy Charge:	\$	0.01189		\$	0.01281		\$	0.01189	Ş	0.01281	
6	Off Peak kWH (M-F 8 pm - 6 am, all day weekends and weekday holidays)	\$	0.01105	92.3%	\$	0.01191	92.3%	\$	0.01087	94.9% \$	0.01171	94.9%
7	Mid Peak kWh (M-F 6 am -3 pm excluding weekday holidays)	\$	0.01197	100.0%	\$	0.01290	100.0%	\$	0.01145	100.0% \$	0.01234	100.0%
8	On Peak kWh (M-F 3 pm - 8 pm excluding weekday holidays)	\$	0.01631	136.3%	\$	0.01758	136.3%	\$	0.01400	122.3% \$	0.01509	122.3%
9												
10												
11	External Delivery Charge- Transmission:	\$	0.03224		\$	0.03265		\$	0.03224	Ş	0.03265	
12	Off Peak kWH (M-F 8 pm - 6 am, all day weekends and weekday holidays)	\$	-	0.0%	\$	-	0.0%	\$	0.00183	60.6% \$	0.00185	60.6%
13	Mid Peak kWh (M-F 6 am -3 pm excluding weekday holidays)	\$	0.01673	100.0%	\$	0.01694	100.0%	\$	0.00302	100.0% \$	0.00306	100.0%
14	On Peak kWh (M-F 3 pm - 8 pm excluding weekday holidays)	\$	0.17016	1017.1%	\$	0.17232	1017.1%	\$	0.18768	6214.6% \$	0.19007	6214.6%
15	Excludes all hours reconciliation and interest component of $\$0.00408$ per kWh included	in Exh.	24 Revised									
16												
17												
18												
19												
20												
21												
22												

23 Note: Small variances in ratios due to rounding.

ATTACHMENT A: ILLUSTRATIVE RATES Residential Rates

Unitil – TOU-EV-D

- 1. Customer Charge: \$5.26 per meter
- 2. Volumetric Rates (not inclusive of non-bypassable rates):

Su	Summer Volumetric Rates (June 1 – Nov 30)										
Period	Transmission	Distribution	Generation	Total							
Off Peak (8pm-6am, & weekends/holidays)	\$0.0 <u>0</u> 408	\$0.0 <u>3138</u> 2941	\$0.0 <u>5885</u> 6304	\$0.09 <u>431</u> 653							
Mid Peak (6am-3pm, M-F)	\$0.0 <u>2478</u> 4683	\$0.04 <u>433</u> 941	\$0.07 <u>266</u> 003	\$0.1 <u>4177</u> 6627							
Peak (3pm-8pm, M-F)	\$0. <u>14369</u> 11567	\$0.0 <u>4004</u> 8797	\$0. 08594 <u>26801</u>	\$0. <u>45174</u> 28958							
V	Vinter Volumetric	Rates (Dec 1 –	May 31)								
Period	Transmission	Distribution	Generation	Total							
Off Peak (8pm-6am, &											
weekends/holidays)	\$0.00580	\$0.03060	\$0.05833	\$0.09473							
Mid Peak (6am-3pm, M-	\$0.00778	\$0.04195	\$0.05943	\$0.10916							
F)	\$0.16616	\$0.03619	\$0.07151	\$0.27386							
Peak (3pm-8pm, M-F)											

Liberty – D-12 EV Rate (Not at issue in this case, for comparison purposes only)

- 1. Customer Charge: \$11.35 per meter
- 2. Volumetric Rates (not inclusive of non-bypassable rates):

Summer Volumetric Rates (May 1 – Oct 31)									
Period	Transmission	Distribution	Generation	Total					
Off Peak (8pm-8am, &	\$0.0213	\$0.03625	\$0.03561	\$0.07399					
holidays)									
Mid Peak (8am-3pm, M-F)	\$0.01958	\$0.05735	\$0.05671	\$0.13364					
(8am-8pm, wkends/holidays)									
Peak (3pm-8pm, M-F)	\$0.12442	\$0.10268	\$0.08883	\$0.31593					
Winter '	Volumetric Rate	s (Nov 1 – Apri	1 30)						
Period	Transmission	Distribution	Generation	Total					
Off Peak (8pm-8am, &	\$0.00213	\$0.04505	\$0.10659	\$0.15377					
holidays)									
Mid Peak (8am-3pm, M-F)	\$0.00590	\$0.06721	\$0.12161	\$0.19472					
(8am-8pm, wkends/holidays)									
Peak (3pm-8pm, M-F)	\$0.23553	\$0.09542	\$0.12636	\$0.45731					

Commercial Rates – Low Demand Draw

Unitil – TOU-EV-G2 (less than 200kVa)

- 1. Customer Charge \$29.19
- 2. Distribution Demand Charge \$5.26/kW
- 3. Volumetric Rates (not inclusive of non-bypassable rates):

Summer Volumetric Rates (Jun 1 – Nov 30)									
Period Transmission Distribution Generation Total									
Off Peak (8pm-6am,	\$ 0.00408	\$ 0.02033	\$ 0.04919	\$ 0.07360					
& weekends)									
Mid Peak (6am-3pm)	\$ 0.01987	\$ 0.01944	\$ 0.06216	\$ 0.10147					
Peak (3-8pm)	\$ 0.17398	\$ 0.02802	\$ 0.25774	\$ 0.45974					

Winter Volumetric Rates (Dec 1 – May 31)								
Period	Transmission	Distribution	Generation	Total				
Off Peak (8pm-6am,	\$ 0.00593	\$ 0.01900	\$ 0.05390	\$ 0.07883				
& weekends)								
Mid Peak (6am-3pm)	\$ 0.00693	\$ 0.01862	\$ 0.05620	\$ 0.08175				
Peak (3-8pm)	\$ 0.18747	\$ 0.02355	\$ 0. 06809	\$ 0.27911				

Liberty – Rate EV-M (Loads less than 72kW)

- 1. Customer Charge \$74.11
- 2. Distribution Demand Charge \$4.74
- 3. Volumetric Rates (not inclusive of non-bypassable rates):

Summer Volumetric Rates (May 1 – Oct 31)									
Period	Transmission	Distribution	Generation	Total					
Off Peak (8pm-8am)	\$0.00000	\$0.03984	\$0.04769	<u>\$0.08754</u>					
	\$ 0.000	\$ 0.028	\$ 0.048	\$ 0.076					
Mid Peak (8am-3pm, M-F)	\$0.01965	<u>\$0.04171</u>	<u>\$0.06057</u>	<u>\$0.12193</u>					
(8am-8pm, wkends/holidays	\$ 0.018	\$ 0.033	\$ 0.061	\$ 0.112					
Peak (3pm-8pm, M-F)	\$0.16119	\$0.04873	\$0.24599	<u>\$0.45592</u>					
	\$ 0.144	\$ 0.037	\$ 0.247	\$ 0.428					

Winter Volumetric Rates (Nov 1 – April 30)									
Period	Transmission	Distribution	Generation	Total					
Off Peak (8pm-8am)	\$0.00325	\$0.03578	\$0.05785	<u>\$0.09687</u>					
	\$ 0.003	\$ 0.028	\$ 0.058	\$ 0.089					
Mid Peak (8am-3pm, M-F)	\$0.00384	\$0.03699	\$0.05985	<u>\$0.10068</u>					
(8am-8pm, wkends/holidays	\$ 0.004	\$ 0.006	\$ 0.060	\$ 0.070					
Peak (3pm-8pm, M-F)	\$0.17410	\$0.04234	\$0.07429	\$0.29073					
	\$ 0.166	\$ 0.035	\$ 0.074	\$ 0.275					

Note: In this version, Liberty Rate EV-M and EV-L tables have been updated to show separate illustrative rates. The previous version showed the same illustrative rate that was developed for a combined EV-L and EV-M class.

Commercial Rates - High Demand Draw

Unitil – TOU-EV-G1 (greater than 200kVa)

- 1. Customer Charge \$162.18 secondary voltage, \$86.49 primary voltage
- 2. Distribution Demand Charge \$3.80/kVa
- 3. Volumetric Rates (not inclusive of non-bypassable rates):

Summer Volumetric Rates (June 1 – Nov 30)						
Period Transmission Distribution Generation Total						
Off Peak (8pm-6am,	\$ 0.00408	\$ 0.01105		\$ 0.01513		
& weekends)						
Mid Peak (6am-3pm)	\$ 0.02081	\$ 0.01197		\$ 0.03278		
Peak (3-8pm)	\$ 0.17424	\$ 0. 01631		\$ 0. 19055		

Winter Volumetric Rates (Dec 1 – May 31)						
Period Transmission Distribution Generation Total						
Off Peak (8pm-6am,	\$ 0.00591	\$ 0.01087		\$0.01678		
& weekends)						
Mid Peak (6am-3pm)	\$ 0. 00710	\$ 0.01145		\$ 0.01855		
Peak (3-8pm)	\$ 0. 19176	\$ 0.01400		\$ 0.20576		

Liberty – Rate EV-L (Loads greater than 72kW)

- 1. Customer Charge \$444.70
- 2. Distribution Demand Charge \$4.71
- 3. Volumetric Rates (not inclusive of non-bypassable rates):

Summer Volumetric Rates (May 1 – Oct 31)					
Period	Transmission	Distribution	Generation	Total	
Off Peak (8pm-8am)	\$0.00000	\$0.02475	\$0.04814	<u>\$0.07288</u>	
	\$ 0.000	\$ 0.028	\$ 0.048	\$ 0.076	
Mid Peak (8am-3pm, M-F)	\$0.01756	\$0.02980	\$0.06167	<u>\$0.10902</u>	
(8am-8pm, wkends/holidays	\$ 0.018	\$ 0.033	\$ 0.061	\$ 0.112	
Peak (3pm-8pm, M-F)	\$0.13752	\$0.03323	\$0.24705	<u>\$0.41780</u>	
	\$ 0.144	\$ 0.037	\$ 0.247	\$ 0.428	

Winter Volumetric Rates (Nov 1 – April 30)					
Period	Transmission	Distribution	Generation	Total	
Off Peak (8pm-8am)	\$0.00287	\$0.02527	\$0.05779	<u>\$0.08593</u>	
	\$ 0.003	\$ 0.028	\$ 0.058	\$ 0.089	
Mid Peak (8am-3pm, M-F)	\$0.00353	<u>\$0.02716</u>	\$0.05995	<u>\$0.09064</u>	
(8am-8pm, wkends/holidays	\$ 0.004	\$ 0.006	\$ 0.060	\$ 0.070	
Peak (3pm-8pm, M-F)	\$0.16270	<u>\$0.03162</u>	\$0.07433	<u>\$0.26865</u>	
	\$ 0.166	\$ 0.035	\$ 0.074	\$ 0.275	

Note: In this version, Liberty Rate EV-M and EV-L tables have been updated to show separate illustrative rates. The previous version showed the same illustrative rate that was developed for a combined EV-L and EV-M class.

ATTACHMENT B: Bill Comparison

Table: Comparison of Bills with Different Rate Options - For Representative Charging Facilities

Note: G1 customers receive energy supply from third party providers, therefore all G1 rates below exclude Generation component

Monthly Bill	Unit	Facility 1	Facility 2	Facility 3
Original G1	\$/month	\$1,223	\$1,396	\$2,767
Unitil Proposal 1 (100% of dist. revenue is recovered from demand charges)	\$/month	\$1,545	\$1,916	\$4,232
Unitil Proposal 2 (20% of dist. revenue is recovered from TOU rates; 80% from demand charges)	\$/month	\$1,309	\$1,730	\$4,074
1/2Demand Charge and recovering rest of dist. revenue from TOU rates	\$/month	\$1,125	\$1,572	\$3,887
DOE Rate - Original TOU	\$/month	\$722	\$1,260	\$3,644
DOE Rate - Original TOU and 1/2Demand Charge	\$/month	\$1,178	\$1,716	\$4,404
DOE Rate - Original TOU and 1/4Demand Charge up to 5% Utilization	\$/month	\$950		
Customer Charge				
G1 average - Original	\$/month	\$124.34		
G1 average - Proposed	\$/month	\$137.18		
EV Charging Facility Assumptions		Facility 1	Facility 2	Facility 3
Total kWh	kWh/month	4,500	8,640	27,000
Max kW	kW	120	120	200
Utilization	%	5%	10%	19%
TOU Load				
Allocation of kWh TOU Periods				
Summer				
Peak	%	25%		
Midpeak	/5	15%		
Offpeak	%	10%		
Winter	/0	10/0		
Peak	%	25%		
Midpeak	70	15%		
Offpeak	%	10%		
Опреак	70	10%		
Rates				
Unitil G1 original	Ć /LAA/Ib	¢0.0416		
Volumetric	\$/kWh	\$0.0416		
Demand	\$/kVA	\$7.60		
Unitil Proposal 1 (100% of dist. revenue is recovered from demand charges)	****	40.000		
Demand	\$/kVA	\$8.370		
Volumetric				
Summer	******	40.44		
Peak	\$/kWh	\$0.141		
Midpeak	\$/kWh	\$0.039		
Offpeak	\$/kWh	\$0.004		
Winter	4.0	4		
Peak	\$/kWh	\$0.186		
Midpeak	\$/kWh	\$0.007		
Offpeak	\$/kWh	\$0.006		
Unitil Proposal 2 (20% of dist. revenue is recovered from TOU rates; 80% from demand charges)	4.0	4		
Demand	\$/kVA	\$5.950		
Volumetric				
Summer				
Peak	\$/kWh	\$0.184		
Midpeak	\$/kWh	\$0.026		
Offpeak	\$/kWh	\$0.008		
Winter				
Peak	\$/kWh	\$0.193		
Midpeak	\$/kWh	\$0.012		
Offpeak	\$/kWh	\$0.010		
Unitil Calculation 1/2Demand Charge and recovering rest of dist. revenue from TOU rates				
Demand	\$/kVA	\$4.185		
Volumetric				
Summer				
Peak	\$/kWh	\$0.192		
Midpeak	\$/kWh	\$0.031		
Offpeak	\$/kWh	\$0.014		
Winter				
Peak	\$/kWh	\$0.200		
Midpeak	\$/kWh	\$0.017		
Offpeak	\$/kWh	\$0.015		
DOE TOU Rate				
Summer				
Peak	\$/kWh	\$0.217	Ratios	
Midpeak	\$/kWh	\$0.052	6.58	
Offpeak	\$/kWh	\$0.033		
Winter	A) ((A))	,u.u33		
Peak	\$/kWh	\$0.222	6.34	
Midpeak	\$/kWh	\$0.222	0.34	
Offpeak	\$/kWh	\$0.037		
		50.035		

Table: Comparison of Bills with Different Rate Options - For Representative Charging Facilities

Monthly Bill	Unit	Facility 1	Facility 2	Facility 3
Original G2	\$/month	\$1,956	\$2,567	\$6,122
Unitil Proposal 1 (100% of dist. revenue is recovered from demand charges)	\$/month	\$2,181	\$2,878	\$6,897
Unitil Proposal 2 (20% of dist. revenue is recovered from TOU rates; 80% from demand charges)	\$/month	\$2,016	\$2,904	\$7,520
1/2Demand Charge and recovering rest of dist. revenue from TOU rates	\$/month	\$1,745	\$2,680	\$7,294
DOE Rate - Original TOU DOE Rate - Original TOU and 1/2Demand Charge			evelop illustrative	
Customer Charge				
G2 - Original	\$/month	\$29.19		
G2 - Proposed	\$/month	\$32.20		
EV Charging Facility Assumptions		Facility 1	Facility 2	Facility 3
Total kWh	kWh/month	4,500	8,640	27,000
Max kW	kW	120	120	200
Utilization	%	5%	10%	19%
TOU Load Allocation of kWh TOU Periods				
Summer				
Peak	%	25%		
Midpeak	,,,	15%		
Offpeak	%	10%		
Winter		10/0		
Peak	%	25%		
Midpeak	70	15%		
Offpeak	%	10%		
Rates				
Unitil G2 original				
Volumetric	\$/kWh	\$0.1478		
Demand	\$/kW	\$10.51		
Unitil Proposal 1 (100% of dist. revenue is recovered from demand charges)	.,	,		
Demand	\$/kW	\$11.590		
Volumetric		·		
Summer				
Peak	\$/kWh	\$0.217		
Midpeak	\$/kWh	\$0.098		
Offpeak	\$/kWh	\$0.057		
Winter				
Peak	\$/kWh	\$0.282		
Midpeak	\$/kWh	\$0.098		
Offpeak	\$/kWh	\$0.086		
Unitil Proposal 2 (20% of dist. revenue is recovered from TOU rates; 80% from demand charges)				
Demand	\$/kW	\$8.490		
Volumetric				
Summer				
Peak	\$/kWh	\$0.453		
Midpeak	\$/kWh	\$0.090		
Offpeak	\$/kWh	\$0.061		
Winter				
Peak	\$/kWh	\$0.257		
Midpeak	\$/kWh	\$0.071		
Offpeak	\$/kWh	\$0.068		
Unitil Calculation 1/2Demand Charge and recovering rest of dist. revenue from TOU rates				
Demand	\$/kW	\$5.795		
Volumetric				
Summer				
Peak	\$/kWh	\$0.468		
Midpeak	\$/kWh	\$0.100		
Offpeak	\$/kWh	\$0.071		
Winter				
Peak	\$/kWh	\$0.268		
Midpeak	\$/kWh	\$0.080		
Offpeak	\$/kWh	\$0.078		
DOE TOU Rate				
Summer				
Peak	\$/kWh			
Midpeak	\$/kWh	DOE did not		
Offpeak	\$/kWh	develop		
Winter		illustrative rates		
Peak	\$/kWh	for G2		
Midpeak	\$/kWh	-		
Offpeak	\$/kWh			

Table: Comparison of Bills with Different Rate Options - For Representative Charging Facilities

Monthly Bill	Unit	Facility 1	Facility 2	Facility 3
Original G-1	\$/month	\$2,043	\$2,523	\$5,381
Liberty Proposal 1	\$/month	\$1,060	\$1,628	\$4,237
Liberty Proposal 2 (DOE TOU + small demand charge)	\$/month	\$1,472	\$2,420	\$6,712
DOE Rate - Original TOU	\$/month	\$1,459	\$2,406	\$6,609
DOE Rate - Original TOU and 1/2Demand Charge	\$/month	\$2,005	\$2,952	\$7,519
DOE Rate - Original TOU and 1/4Demand Charge up to 5% Utilization	\$/month	\$1,732		
Customer Charge				
G-1 original	\$/month	428.76		
Liberty's proposal	\$/month	307.05		
EV Charging Facility Assumptions		Facility 1	Facility 2	Facility 3
Total kWh	kWh/month	4,500	8,640	27,000
Max kW	kW	120	120	200
Utilization	%	5%	10%	19%
TOU Load				
Allocation of kWh TOU Periods				
Summer				
Peak	%	25%		
Midpeak		15%		
Offpeak	%	10%		
Winter				
Peak	%	25%		
Midpeak		15%		
Offpeak	%	10%		
Rates		_		
Liberty G-1 original				
Energy Charges (D, T, G, and other)	\$/kWh	\$0.116		
Distribution Demand Charges	\$/kW	\$9.100		
Liberty Proposal 1				
Energy Charges (D, T, G, and other)	\$/kWh	\$0.137		
Distribution Demand Charges	\$/kW	\$1.124		
DOE TOU Rate				
Summer				
Peak	\$/kWh	\$0.433	Ratios	
Midpeak	\$/kWh	\$0.118	5.27	
Offpeak	\$/kWh	\$0.082		
Winter				
Peak	\$/kWh	\$0.281	2.96	
Midpeak	\$/kWh	\$0.099		
Offpeak	\$/kWh	\$0.095		