

UNITIL ENERGY SYSTEMS. INC.
CALCULATION OF THE STRANDED COST CHARGE
Effective August 1, 2018

Uniform per kWh Charge

1. (Over)/under Recovery - Beginning Balance August 1, 2018	(\$428,979)	Page 2 of 4
2. Estimated Total Costs (August 2018 - July 2019)	(\$769,892)	Page 2 of 4
3. Estimated Interest (August 2018 - July 2019)	<u>(\$10,579)</u>	Page 2 of 4
4. Costs to be Recovered (L.1 + L.2 + L.3)	(\$1,209,450)	
5. Estimated Calendar Month Deliveries in kWh (August 2018 - July 2019) (1)	<u>1,201,046,348</u>	
6. Stranded Cost Charge (\$/kWh) (L.4 / L.5)	(\$0.00101)	

Development of Class Stranded Cost Charge

Class D, D - Controlled Off Peak Water Heating, G2 - kWh meter,
G2 - Quick Recovery Water Heating, G2 - Space Heating,
G2 Controlled Off Peak Water Heating, OL

7. Stranded Cost Charge (\$/kWh) (L.6)	(\$0.00101)
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Class G2 (2)

8. Estimated G2 Demand Revenue (August 2018- July 2019)	(\$275,318)
9. Estimated G2 Deliveries in kW (August 2018 - July 2019)	<u>1,335,793</u>
10. Stranded Cost Charge (\$/kW) (L. 8 / L. 9)	(\$0.21)
11. G2 Energy Revenue (August 2018 - July 2019)	(\$70,588)
12. Estimated G2 Calendar Month Deliveries in kWh (August 2018 - July 2019) (1)	<u>342,481,395</u>
13. Stranded Cost Charge (\$/kWh) (L.11 / L.12)	(\$0.00021)

Class G1 (2)

14. Estimated G1 Demand Revenue (August 2018 - July 2019)	(\$261,862)
15. Estimated G1 Deliveries in kVA (August 2018 - July 2019)	<u>1,058,401</u>
16. Stranded Cost Charge (\$/kVA) (L. 14 / L. 15)	(\$0.25)
17. G1 Energy Revenue (August 2018 - July 2019)	(\$84,958)
18. Estimated G1 Calendar Month Deliveries in kWh (August 2018 - July 2019) (1)	<u>343,385,757</u>
19. Stranded Cost Charge (\$/kWh) (L.17 / L.18)	(\$0.00025)

(1) Schedule LSM-2, page 1.	Schedule LSM-1, page 3.	Schedule LSM-1, page 3.
Total Company	<u>G2 Demand</u>	<u>G1 Demand</u>
Aug 2018-Jul 2019 Billed kWh 1,207,223,381	Aug 2018-Jul 2019 Billed kWh 343,614,958	Aug 2018-Jul 2019 Billed kWh 346,439,602
- July 2018 Unbilled kWh (64,152,148)	- July 2018 Unbilled kWh (17,379,544)	- July 2018 Unbilled kWh (19,175,584)
+ July 2019 Unbilled kWh <u>57,975,115</u>	+ July 2019 Unbilled kWh <u>16,245,981</u>	+ July 2019 Unbilled kWh <u>16,121,740</u>
Calendar Month Deliveries 1,201,046,348	Calendar Month Deliveries 342,481,395	Calendar Month Deliveries 343,385,757

(2) Demand and energy calculated based on ratio of demand and energy revenue under current rates.

Calculation of Class G2 and G1 Demand and Energy Components

	Units <u>(Aug 18 - Jul 19)</u>	Current <u>Rates</u>	<u>Revenue under current rates</u>	<u>% of Total</u>	<u>Revenue at Proposed Rates</u>
G2 kW	1,335,793	(\$0.11)	(\$146,937)	80%	(\$275,318)
G2 kWh	342,481,395	(\$0.00011)	<u>(\$37,673)</u>	20%	<u>(\$70,588)</u>
Total			(\$184,610)	100%	(\$345,906)
G1 kVA	1,058,401	(\$0.14)	(\$148,176)	76%	(\$261,862)
G1 kWh	343,385,757	(\$0.00014)	<u>(\$48,074)</u>	24%	<u>(\$84,958)</u>
Total			(\$196,250)	100%	(\$346,820)

		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
		Beginning	Total Costs	Total Revenue	Ending Balance	Average	Interest	Number of	Computed	Ending Balance
		Balance			Before Interest	Monthly	Rate	Days /	Interest	with Interest
					(a + b - c)	Balance ((a+d) / 2)		Month		(d + h)
Aug-16	Actual	(\$287,596)	(\$26,662)	(\$13,718)	(\$300,541)	(\$294,068)	3.50%	31	(\$872)	(\$301,412)
Sep-16	Actual	(\$301,412)	(\$17,512)	(\$19,233)	(\$299,692)	(\$300,552)	3.50%	30	(\$862)	(\$300,554)
Oct-16	Actual	(\$300,554)	(\$17,541)	(\$17,595)	(\$300,500)	(\$300,527)	3.50%	31	(\$891)	(\$301,391)
Nov-16	Actual	(\$301,391)	(\$38,141)	(\$17,429)	(\$322,103)	(\$311,747)	3.50%	30	(\$894)	(\$322,997)
Dec-16	Actual	(\$322,997)	(\$28,890)	(\$19,224)	(\$332,663)	(\$327,830)	3.50%	31	(\$972)	(\$333,635)
Jan-17	Actual	(\$333,635)	(\$19,516)	(\$19,462)	(\$333,688)	(\$333,661)	3.50%	31	(\$992)	(\$334,680)
Feb-17	Actual	(\$334,680)	(\$41,056)	(\$17,131)	(\$358,605)	(\$346,643)	3.50%	28	(\$931)	(\$359,536)
Mar-17	Actual	(\$359,536)	(\$18,243)	(\$18,643)	(\$359,137)	(\$359,336)	3.50%	31	(\$1,068)	(\$360,205)
Apr-17	Actual	(\$360,205)	(\$14,650)	(\$17,175)	(\$357,679)	(\$358,942)	3.75%	30	(\$1,106)	(\$358,785)
May-17	Actual	(\$358,785)	(\$17,225)	(\$16,791)	(\$359,219)	(\$359,002)	3.75%	31	(\$1,143)	(\$360,363)
Jun-17	Actual	(\$360,363)	(\$16,064)	(\$19,959)	(\$356,467)	(\$358,415)	3.75%	30	(\$1,105)	(\$359,572)
Jul-17	Actual	(\$357,572)	<u>\$11,234</u>	<u>(\$21,498)</u>	(\$324,840)	(\$341,206)	4.00%	31	<u>(\$1,159)</u>	(\$325,999)
Total Aug-16 to Jul-17			(\$244,267)	(\$217,860)					(\$11,995)	

		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
		Beginning	Total Costs	Total Revenue	Ending Balance	Average	Interest	Number of	Computed	Ending Balance
		Balance			Before Interest	Monthly	Rate	Days /	Interest	with Interest
					(a + b - c)	Balance ((a+d) / 2)		Month		(d + h)
Aug-17	Actual	(\$325,999)	(\$15,137)	(\$49,474)	(\$291,662)	(\$308,830)	4.00%	31	(\$1,049)	(\$292,711)
Sep-17	Actual	(\$292,711)	(\$55,268)	(\$61,297)	(\$286,682)	(\$289,697)	4.00%	30	(\$952)	(\$287,635)
Oct-17	Actual	(\$287,635)	(\$66,837)	(\$51,626)	(\$302,846)	(\$295,240)	4.25%	31	(\$1,066)	(\$303,912)
Nov-17	Actual	(\$303,912)	(\$59,047)	(\$49,801)	(\$313,158)	(\$308,535)	4.25%	30	(\$1,078)	(\$314,236)
Dec-17	Actual	(\$314,236)	(\$56,145)	(\$59,102)	(\$311,278)	(\$312,757)	4.25%	31	(\$1,129)	(\$312,407)
Jan-18	Actual	(\$312,407)	(\$108,208)	(\$62,752)	(\$357,863)	(\$335,135)	4.25%	31	(\$1,210)	(\$359,073)
Feb-18	Actual	(\$359,073)	(\$135,213)	(\$52,442)	(\$441,844)	(\$400,459)	4.25%	28	(\$1,306)	(\$443,150)
Mar-18	Actual	(\$443,150)	(\$47,985)	(\$54,227)	(\$436,907)	(\$440,029)	4.25%	31	(\$1,588)	(\$438,496)
Apr-18	Actual	(\$438,496)	(\$52,219)	(\$49,785)	(\$440,930)	(\$439,713)	4.50%	30	(\$1,626)	(\$442,556)
May-18	Estimate	(\$442,556)	(\$61,508)	(\$50,727)	(\$453,336)	(\$447,946)	4.50%	31	(\$1,712)	(\$455,048)
Jun-18	Estimate	(\$455,048)	(\$25,194)	(\$57,687)	(\$422,555)	(\$438,802)	4.50%	30	(\$1,623)	(\$424,178)
Jul-18	Estimate	(\$424,178)	<u>(\$66,991)</u>	<u>(\$63,908)</u>	(\$427,261)	(\$425,720)	4.75%	31	<u>(\$1,717)</u>	(\$428,979)
Total Aug-17 to Jul-18			(\$749,750)	(\$662,827)					(\$16,056)	

		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
		Beginning	Total Costs	Total Revenue	Ending Balance	Average	Interest	Number of	Computed	Ending Balance
		Balance			Before Interest	Monthly	Rate	Days /	Interest	with Interest
					(a + b - c)	Balance ((a+d) / 2)		Month		(d + h)
Aug-18	Estimate	(\$428,979)	(\$66,991)	(\$109,850)	(\$386,120)	(\$407,550)	4.75%	31	(\$1,644)	(\$387,764)
Sep-18	Estimate	(\$387,764)	(\$66,991)	(\$101,543)	(\$353,212)	(\$370,488)	4.75%	30	(\$1,446)	(\$354,659)
Oct-18	Estimate	(\$354,659)	(\$67,291)	(\$101,699)	(\$320,250)	(\$337,455)	4.75%	31	(\$1,361)	(\$321,612)
Nov-18	Estimate	(\$321,612)	(\$67,291)	(\$95,000)	(\$293,903)	(\$307,757)	4.75%	30	(\$1,202)	(\$295,104)
Dec-18	Estimate	(\$295,104)	(\$67,291)	(\$102,252)	(\$260,144)	(\$277,624)	4.75%	31	(\$1,120)	(\$261,264)
Jan-19	Estimate	(\$261,264)	(\$67,291)	(\$114,576)	(\$213,979)	(\$237,622)	4.75%	31	(\$959)	(\$214,938)
Feb-19	Estimate	(\$214,938)	(\$67,291)	(\$98,283)	(\$183,946)	(\$199,442)	4.75%	28	(\$727)	(\$184,673)
Mar-19	Estimate	(\$184,673)	(\$67,291)	(\$97,812)	(\$154,152)	(\$169,412)	4.75%	31	(\$683)	(\$154,835)
Apr-19	Estimate	(\$154,835)	(\$67,291)	(\$90,067)	(\$132,060)	(\$143,448)	4.75%	30	(\$560)	(\$132,620)
May-19	Estimate	(\$132,620)	(\$67,291)	(\$92,620)	(\$107,291)	(\$119,955)	4.75%	31	(\$484)	(\$107,775)
Jun-19	Estimate	(\$107,775)	(\$48,791)	(\$103,856)	(\$52,710)	(\$80,243)	4.75%	30	(\$313)	(\$53,024)
Jul-19	Estimate	(\$53,024)	<u>(\$48,791)</u>	<u>(\$115,657)</u>	\$13,842	(\$19,591)	4.75%	31	<u>(\$79)</u>	\$13,763
Total Aug-18 to Jul-19			(\$769,892)	(\$1,223,212)					(\$10,579)	

Detail of Unbilled Factors for Residential and Outdoor Lighting Classes for use in all classes except G2 demand and G1 (column b, Page 3)

Detail of Unbilled Factors for Regular General Class for use in G2 demand class (column g, Page 3)

Detail of Unbilled Factors for Large General Class for use in G1 class (column i, Page 3)

	<u>Billed kWh</u>	<u>Direct Estimate of Unbilled kWh</u>	<u>Unbilled kWh / Billed kWh</u>
Aug-16	56,535,260	19,666,047	34.8%
Sep-16	43,420,234	15,183,786	35.0%
Oct-16	33,590,954	17,357,813	51.7%
Nov-16	34,435,116	20,467,031	59.4%
Dec-16	41,634,128	25,945,755	62.3%
Jan-17	49,572,326	24,170,570	48.8%
Feb-17	42,535,216	18,480,506	43.4%
Mar-17	40,408,144	21,739,680	53.8%
Apr-17	37,854,699	18,366,112	48.5%
May-17	32,607,392	18,488,727	56.7%
Jun-17	37,151,458	24,998,219	67.3%
Jul-17	49,637,793	24,701,296	49.8%
Aug-17	46,772,877	18,770,025	40.1%
Sep-17	40,502,591	26,238,842	64.8%
Oct-17	37,665,837	20,204,977	53.6%
Nov-17	33,754,111	20,776,373	61.6%
Dec-17	43,952,279	26,943,012	61.3%
Jan-18	56,315,430	24,977,972	44.4%
Feb-18	44,512,520	19,108,670	42.9%
Mar-18	40,547,117	20,011,062	49.4%
Apr-18	37,550,806	17,011,755	45.3%

	<u>Billed kWh</u>	<u>Direct Estimate of Unbilled kWh</u>	<u>Unbilled kWh / Billed kWh</u>
Aug-16	36,516,542	14,747,506	40.4%
Sep-16	30,877,269	14,324,506	46.4%
Oct-16	25,972,102	13,420,842	51.7%
Nov-16	25,122,592	13,705,605	54.6%
Dec-16	26,720,746	15,105,949	56.5%
Jan-17	30,545,247	15,296,389	50.1%
Feb-17	27,831,752	13,403,502	48.2%
Mar-17	27,277,572	14,969,527	54.9%
Apr-17	26,751,090	14,691,656	54.9%
May-17	25,128,839	14,248,311	56.7%
Jun-17	27,795,017	16,993,376	61.1%
Jul-17	33,529,865	16,533,817	49.3%
Aug-17	33,135,243	14,895,016	45.0%
Sep-17	29,975,258	17,638,915	58.8%
Oct-17	29,305,074	15,720,037	53.6%
Nov-17	25,300,986	14,145,704	55.9%
Dec-17	28,046,822	15,336,565	54.7%
Jan-18	32,909,623	15,378,220	46.7%
Feb-18	29,129,997	13,710,532	47.1%
Mar-18	28,332,139	13,708,525	48.4%
Apr-18	26,666,473	13,300,780	49.9%

	<u>Billed kWh</u>	<u>Direct Estimate of Unbilled kWh</u>	<u>Unbilled kWh / Billed kWh</u>
Aug-16	35,598,590	14,376,783	40.4%
Sep-16	31,702,613	14,707,398	46.4%
Oct-16	27,982,369	14,459,628	51.7%
Nov-16	26,593,634	14,508,131	54.6%
Dec-16	27,126,203	15,335,165	56.5%
Jan-17	27,777,988	14,116,611	50.8%
Feb-17	27,435,574	13,872,976	50.6%
Mar-17	27,034,182	14,978,024	55.4%
Apr-17	26,958,211	15,590,124	57.8%
May-17	27,287,795	15,472,461	56.7%
Jun-17	30,547,604	16,377,386	53.6%
Jul-17	34,164,950	16,605,730	48.6%
Aug-17	32,479,046	15,991,170	49.2%
Sep-17	30,878,419	15,879,329	51.4%
Oct-17	31,045,206	16,653,491	53.6%
Nov-17	27,021,133	14,468,830	53.5%
Dec-17	28,973,555	14,825,649	51.2%
Jan-18	29,063,623	13,968,492	48.1%
Feb-18	27,816,557	13,640,259	49.0%
Mar-18	27,664,061	13,269,232	48.0%
Apr-18	26,745,474	13,858,352	51.8%

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UNITIL ENERGY SYSTEMS. INC.
CALCULATION OF THE EXTERNAL DELIVERY CHARGE
Effective August 1, 2017

	<u>Calculation of the EDC</u>	<u>Calculation of the EDC/Transmission Only</u>	<u>Calculation of the EDC/Non-Transmission</u>	
1. (Over)/under Recovery - Beginning Balance August 1, 2017	\$543,166	\$1,521,755	(\$978,589)	Page 4 of 6
2. Estimated Total Costs (August 2017 - July 2018)	\$28,134,350	\$28,454,228	(\$319,878)	Page 4 of 6
3. Estimated Interest (August 2017 - July 2018)	<u>\$13,901</u>	<u>\$29,308</u>	<u>(\$15,408)</u>	Page 4 of 6
4. Costs to be Recovered (L.1 + L.2 + L.3)	\$28,691,417	\$30,005,292	(\$1,313,875)	L.1 + L.2 + L.3
5. Estimated Calendar Month Deliveries in kWh (August 2017 - July 2018) (1)	<u>1,201,046,348</u>	<u>1,201,046,348</u>	<u>1,201,046,348</u>	
6. External Delivery Charge (\$/kWh) (L. 4 / L. 5)	\$0.02389	\$0.02498	(\$0.00109)	

(1) Schedule LSM-2, page 5.

August 2018 - July 2019 Billed kWh	1,207,223,381
- July 2018 Unbilled kWh	(64,152,148)
+ July 2019 Unbilled kWh	<u>57,975,115</u>
Calendar Month Deliveries	1,201,046,348

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		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
		Beginning	Total Costs	Total Revenue	Ending	Average	Interest	Number of	Computed	Ending Balance
		Balance			Balance	Monthly	Rate	Days /	Interest	with Interest
					Before	Balance		Month		(d + h)
					Interest	((a+d) / 2)				
					(a + b - c)					
Aug-16	Actual	(\$702,484)	\$2,975,024	\$2,538,083	(\$265,544)	(\$484,014)	3.50%	31	(\$1,435)	(\$266,979)
Sep-16	Actual	(\$266,979)	\$2,747,086	\$2,174,580	\$305,528	\$19,275	3.50%	30	\$55	\$305,583
Oct-16	Actual	\$305,583	\$1,670,837	\$1,898,942	\$77,477	\$191,530	3.50%	31	\$568	\$78,045
Nov-16	Actual	\$78,045	\$2,145,848	\$1,920,900	\$302,993	\$190,519	3.50%	30	\$547	\$303,540
Dec-16	Actual	\$303,540	\$2,425,802	\$2,212,350	\$516,991	\$410,265	3.50%	31	\$1,216	\$518,207
Jan-17	Actual	\$518,207	\$2,061,878	\$2,253,272	\$326,813	\$422,510	3.50%	31	\$1,256	\$328,069
Feb-17	Actual	\$328,069	\$2,111,037	\$1,929,115	\$509,991	\$419,030	3.50%	28	\$1,125	\$511,116
Mar-17	Actual	\$511,116	\$1,884,660	\$2,157,958	\$237,818	\$374,467	3.50%	31	\$1,113	\$238,931
Apr-17	Actual	\$238,931	\$1,733,812	\$1,897,986	\$74,757	\$156,844	3.75%	30	\$483	\$75,240
May-17	Actual	(\$473,790)(1)	\$2,625,504	\$1,813,531	\$338,184	(\$67,803)	3.75%	31	(\$5,274)(2)	\$332,910
Jun-17	Actual	\$332,910	\$3,272,884	\$2,265,213	\$1,340,581	\$836,745	3.75%	30	\$2,579	\$1,343,160
Jul-17	Actual	\$1,343,160	<u>\$4,056,795</u>	<u>\$2,504,204</u>	\$2,895,752	\$2,119,456	4.00%	31	<u>\$7,200</u>	\$2,902,952
Total Aug-16 to Jul-17			\$29,711,165	\$25,566,133					\$9,434	

(1) Includes VMP/REP reconciliation of (\$549,030), as filed in DE 17-033 on February 27, 2017.

(2) Includes (\$5,058.16) to adjust interest for trueup made to EDC Portion of the annual PUC Assessment.

		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
Transmission Costs Only		Beginning Balance	Total Costs	Total Revenue	Ending Balance Before Interest (a + b - c)	Average Monthly Balance ((a+d) / 2)	Interest Rate	Number of Days / Month	Computed Interest	Ending Balance with Interest (d + h)
Aug-17	Actual	\$2,453,519	\$2,994,606	\$2,693,170	\$2,754,956	\$2,604,238	4.00%	31	\$8,847	\$2,763,803
Sep-17	Actual	\$2,763,803	\$2,350,260	\$2,877,911	\$2,236,151	\$2,499,977	4.00%	30	\$8,219	\$2,244,370
Oct-17	Actual	\$2,244,370	\$2,205,567	\$2,345,472	\$2,104,465	\$2,174,418	4.25%	31	\$7,849	\$2,112,314
Nov-17	Actual	\$2,112,314	\$2,135,498	\$2,139,946	\$2,107,866	\$2,110,090	4.25%	30	\$7,371	\$2,115,237
Dec-17	Actual	\$2,115,237	\$2,667,172	\$2,806,319	\$1,976,090	\$2,045,663	4.25%	31	\$7,384	\$1,983,474
Jan-18	Actual	\$1,983,474	\$2,596,424	\$2,982,742	\$1,597,156	\$1,790,315	4.25%	31	\$6,462	\$1,603,618
Feb-18	Actual	\$1,603,618	\$2,276,523	\$2,416,582	\$1,463,559	\$1,533,588	4.25%	28	\$5,000	\$1,468,559
Mar-18	Actual	\$1,468,559	\$1,919,466	\$2,506,340	\$881,685	\$1,175,122	4.25%	31	\$4,242	\$885,927
Apr-18	Actual	\$885,927	\$2,005,188	\$2,275,571	\$615,543	\$750,735	4.50%	30	\$2,777	\$618,320
May-18	Estimate	\$618,320	\$2,274,787	\$2,271,797	\$621,309	\$619,814	4.50%	31	\$2,369	\$623,678
Jun-18	Estimate	\$623,678	\$3,699,554	\$2,633,667	\$1,689,564	\$1,156,621	4.50%	30	\$4,278	\$1,693,842
Jul-18	Estimate	\$1,693,842	<u>\$2,950,021</u>	<u>\$3,128,582</u>	\$1,515,282	\$1,604,562	4.75%	31	<u>\$6,473</u>	\$1,521,755
Total Aug-17 to Jul-18			\$30,075,065	\$31,078,101					\$71,271	

		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
All Remaining EDC Costs (Non-Transmission)		Beginning Balance	Total Costs	Total Revenue	Ending Balance Before Interest (a + b - c)	Average Monthly Balance ((a+d) / 2)	Interest Rate	Number of Days / Month	Computed Interest	Ending Balance with Interest (d + h)
Aug-17	Actual	\$449,432	\$260,109	\$57,368	\$652,173	\$550,803	4.00%	31	\$1,871	\$654,044
Sep-17	Actual	\$654,044	\$40,379	\$61,303	\$633,120	\$643,582	4.00%	30	\$2,116	\$635,236
Oct-17	Actual	\$635,236	(\$221,157)	\$49,962	\$364,117	\$499,677	4.25%	31	\$1,804	\$365,921
Nov-17	Actual	\$365,921	\$67,308	\$45,584	\$387,645	\$376,783	4.25%	30	\$1,316	\$388,961
Dec-17	Actual	\$388,961	\$67,055	\$59,778	\$396,238	\$392,600	4.25%	31	\$1,417	\$397,655
Jan-18	Actual	\$397,655	(\$174,964)	\$63,536	\$159,155	\$278,405	4.25%	31	\$1,005	\$160,160
Feb-18	Actual	\$160,160	\$72,357	\$51,476	\$181,040	\$170,600	4.25%	28	\$556	\$181,596
Mar-18	Actual	\$181,596	\$67,738	\$53,388	\$195,946	\$188,771	4.25%	31	\$687 (1)	\$196,633
Apr-18	Actual	\$196,633	(\$169,259)	\$48,473	(\$21,098)	\$87,767	4.50%	30	\$325	(\$20,774)
May-18	Estimate	(\$820,939)(2)	\$68,628	\$48,392	(\$800,702)	(\$810,821)	4.50%	31	(\$3,099)	(\$803,801)
Jun-18	Estimate	(\$803,801)	\$68,628	\$56,101	(\$791,273)	(\$797,537)	4.50%	30	(\$2,950)	(\$794,223)
Jul-18	Estimate	(\$794,223)	<u>(\$179,845)</u>	<u>\$66,643</u>	(\$1,040,711)	(\$917,467)	4.75%	31	<u>(\$3,701)</u>	(\$1,044,413)
Total Aug-17 to Jul-18			(\$33,022)	\$662,004					\$1,347	

(1) Includes \$5.75 to adjust interest for trueup made to legal costs.

(2) Includes a regulatory liability of (\$769,342) to reflect reduced rates from January through April 2018 as a result of tax reductions and VMP/REP reconciliation of (\$30,823), both approved in DE 18-036, Order No. 26,123.

		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
Total External Delivery Charge		Beginning Balance	Total Costs	Total Revenue	Ending Balance Before Interest (a + b - c)	Average Monthly Balance ((a+d) / 2)	Interest Rate	Number of Days / Month	Computed Interest	Ending Balance with Interest (d + h)
Aug-17	Actual	\$2,902,952	\$3,254,715	\$2,750,538	\$3,407,129	\$3,155,040	4.00%	31	\$10,718	\$3,417,847
Sep-17	Actual	\$3,417,847	\$2,390,638	\$2,939,215	\$2,869,271	\$3,143,559	4.00%	30	\$10,335	\$2,879,606
Oct-17	Actual	\$2,879,606	\$1,984,410	\$2,395,434	\$2,468,583	\$2,674,094	4.25%	31	\$9,652	\$2,478,235
Nov-17	Actual	\$2,478,235	\$2,202,806	\$2,185,530	\$2,495,511	\$2,486,873	4.25%	30	\$8,687	\$2,504,198
Dec-17	Actual	\$2,504,198	\$2,734,227	\$2,866,097	\$2,372,328	\$2,438,263	4.25%	31	\$8,801	\$2,381,129
Jan-18	Actual	\$2,381,129	\$2,421,460	\$3,046,279	\$1,756,311	\$2,068,720	4.25%	31	\$7,467	\$1,763,778
Feb-18	Actual	\$1,763,778	\$2,348,879	\$2,468,058	\$1,644,599	\$1,704,188	4.25%	28	\$5,556	\$1,650,155
Mar-18	Actual	\$1,650,155	\$1,987,204	\$2,559,728	\$1,077,631	\$1,363,893	4.25%	31	\$4,929 (1)	\$1,082,560
Apr-18	Actual	\$1,082,560	\$1,835,929	\$2,324,044	\$594,445	\$838,502	4.50%	30	\$3,101	\$597,546
May-18	Estimate	(\$202,619)(2)	\$2,343,415	\$2,320,190	(\$179,393)	(\$191,006)	4.50%	31	(\$730)	(\$180,123)
Jun-18	Estimate	(\$180,123)	\$3,768,182	\$2,689,768	\$898,291	\$359,084	4.50%	30	\$1,328	\$899,619
Jul-18	Estimate	\$899,619	<u>\$2,770,176</u>	<u>\$3,195,225</u>	\$474,570	\$687,095	4.75%	31	<u>\$2,772</u>	\$477,342
Total Aug-17 to Jul-18			\$30,042,043	\$31,740,105					\$72,618	

(1) Includes \$5.75 to adjust interest for trueup made to legal costs.

(2) Includes a regulatory liability of (\$769,342) to reflect reduced rates from January through April 2018 as a result of tax reductions and VMP/REP reconciliation of (\$30,823), both approved in DE 18-036, Order No. 26,123.

		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
Transmission Costs Only		Beginning			Ending	Average		Number of		Ending Balance
		Balance	Total Costs	Total Revenue	Balance	Monthly	Interest	Days /	Computed	with Interest
					Before	Balance	Rate	Month	Interest	(d + h)
					Interest	((a+d) / 2)				
					(a + b - c)					
Aug-18	Estimate	\$1,521,755	\$2,875,176	\$2,724,681	\$1,672,250	\$1,597,002	4.75%	31	\$6,443	\$1,678,692
Sep-18	Estimate	\$1,678,692	\$2,514,826	\$2,478,398	\$1,715,120	\$1,696,906	4.75%	30	\$6,625	\$1,721,745
Oct-18	Estimate	\$1,721,745	\$1,983,103	\$2,469,937	\$1,234,911	\$1,478,328	4.75%	31	\$5,964	\$1,240,875
Nov-18	Estimate	\$1,240,875	\$2,112,832	\$2,244,721	\$1,108,987	\$1,174,931	4.75%	30	\$4,587	\$1,113,574
Dec-18	Estimate	\$1,113,574	\$2,354,063	\$2,575,226	\$892,411	\$1,002,992	4.75%	31	\$4,046	\$896,457
Jan-19	Estimate	\$896,457	\$2,359,515	\$2,907,232	\$348,740	\$622,598	4.75%	31	\$2,512	\$351,251
Feb-19	Estimate	\$351,251	\$2,259,570	\$2,392,537	\$218,285	\$284,768	4.75%	28	\$1,038	\$219,322
Mar-19	Estimate	\$219,322	\$2,130,400	\$2,413,077	(\$63,354)	\$77,984	4.75%	31	\$315	(\$63,040)
Apr-19	Estimate	(\$63,040)	\$1,935,552	\$2,135,206	(\$262,694)	(\$162,867)	4.75%	30	(\$636)	(\$263,330)
May-19	Estimate	(\$263,330)	\$2,244,933	\$2,214,999	(\$233,396)	(\$248,363)	4.75%	31	(\$1,002)	(\$234,398)
Jun-19	Estimate	(\$234,398)	\$2,734,223	\$2,532,712	(\$32,886)	(\$133,642)	4.75%	30	(\$522)	(\$33,408)
Jul-19	Estimate	(\$33,408)	<u>\$2,950,035</u>	<u>\$2,913,413</u>	\$3,215	(\$15,097)	4.75%	31	<u>(\$61)</u>	\$3,154
Total Aug-18 to Jul-19			\$28,454,228	\$30,002,138					\$29,308	

		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
All Remaining EDC Costs (Non-Transmission)		Beginning			Ending	Average		Number of		Ending Balance
		Balance	Total Costs	Total Revenue	Balance	Monthly	Interest	Days /	Computed	with Interest
					Before	Balance	Rate	Month	Interest	(d + h)
					Interest	((a+d) / 2)				
					(a + b - c)					
Aug-18	Estimate	(\$978,589)(1)	\$235,257	(\$118,891)	(\$624,440)	(\$801,514)	4.75%	31	(\$3,234)	(\$627,674)
Sep-18	Estimate	(\$627,674)	\$40,429	(\$108,145)	(\$479,100)	(\$553,387)	4.75%	30	(\$2,160)	(\$481,261)
Oct-18	Estimate	(\$481,261)	(\$216,055)	(\$107,775)	(\$589,540)	(\$535,400)	4.75%	31	(\$2,160)	(\$591,700)
Nov-18	Estimate	(\$591,700)	\$40,429	(\$97,948)	(\$453,323)	(\$522,511)	4.75%	30	(\$2,040)	(\$455,363)
Dec-18	Estimate	(\$455,363)	\$45,429	(\$112,370)	(\$297,564)	(\$376,463)	4.75%	31	(\$1,519)	(\$299,083)
Jan-19	Estimate	(\$299,083)	(\$216,055)	(\$126,857)	(\$388,281)	(\$343,682)	4.75%	31	(\$1,387)	(\$389,667)
Feb-19	Estimate	(\$389,667)	\$45,530	(\$104,398)	(\$239,739)	(\$314,703)	4.75%	28	(\$1,147)	(\$240,886)
Mar-19	Estimate	(\$240,886)	\$42,909	(\$105,294)	(\$92,683)	(\$166,784)	4.75%	31	(\$673)	(\$93,355)
Apr-19	Estimate	(\$93,355)	(\$216,055)	(\$93,170)	(\$216,240)	(\$154,798)	4.75%	30	(\$604)	(\$216,845)
May-19	Estimate	(\$216,845)	\$40,429	(\$96,651)	(\$79,765)	(\$148,305)	4.75%	31	(\$598)	(\$80,363)
Jun-19	Estimate	(\$80,363)	\$40,429	(\$110,515)	\$70,580	(\$4,891)	4.75%	30	(\$19)	\$70,561
Jul-19	Estimate	\$70,561	<u>(\$202,555)</u>	<u>(\$127,127)</u>	(\$4,867)	\$32,847	4.75%	31	<u>\$133</u>	(\$4,734)
Total Aug-18 to Jul-19			(\$319,878)	(\$1,309,141)					(\$15,408)	

(1) Includes estimated reconciliation balances of \$51,547.49 and \$14,276.41 related to Hurricane Sandy and Hurricane Irene/Snowtober, respectively.

		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
Total External Delivery Charge		Beginning			Ending	Average		Number of		Ending Balance
		Balance	Total Costs	Total Revenue	Balance	Monthly	Interest	Days /	Computed	with Interest
					Before	Balance	Rate	Month	Interest	(d + h)
					Interest	((a+d) / 2)				
					(a + b - c)					
Aug-18	Estimate	\$543,166 (1)	\$3,110,433	\$2,605,790	\$1,047,809	\$795,488	4.75%	31	\$3,209	\$1,051,019
Sep-18	Estimate	\$1,051,019	\$2,555,255	\$2,370,253	\$1,236,020	\$1,143,519	4.75%	30	\$4,464	\$1,240,484
Oct-18	Estimate	\$1,240,484	\$1,767,048	\$2,362,161	\$645,372	\$942,928	4.75%	31	\$3,804	\$649,176
Nov-18	Estimate	\$649,176	\$2,153,261	\$2,146,773	\$655,664	\$652,420	4.75%	30	\$2,547	\$658,211
Dec-18	Estimate	\$658,211	\$2,399,492	\$2,462,856	\$594,847	\$626,529	4.75%	31	\$2,528	\$597,374
Jan-19	Estimate	\$597,374	\$2,143,460	\$2,780,375	(\$39,541)	\$278,917	4.75%	31	\$1,125	(\$38,416)
Feb-19	Estimate	(\$38,416)	\$2,305,100	\$2,288,138	(\$21,455)	(\$29,935)	4.75%	28	(\$109)	(\$21,564)
Mar-19	Estimate	(\$21,564)	\$2,173,309	\$2,307,782	(\$156,037)	(\$88,800)	4.75%	31	(\$358)	(\$156,395)
Apr-19	Estimate	(\$156,395)	\$1,719,497	\$2,042,037	(\$478,935)	(\$317,665)	4.75%	30	(\$1,240)	(\$480,175)
May-19	Estimate	(\$480,175)	\$2,285,362	\$2,118,348	(\$313,161)	(\$396,668)	4.75%	31	(\$1,600)	(\$314,761)
Jun-19	Estimate	(\$314,761)	\$2,774,652	\$2,422,197	\$37,694	(\$138,533)	4.75%	30	(\$541)	\$37,153
Jul-19	Estimate	\$37,153	\$2,747,481	\$2,786,286	(\$1,652)	\$17,751	4.75%	31	<u>\$72</u>	(\$1,580)
Total Aug-18 to Jul-19			\$28,134,350	\$28,692,997					\$13,901	

(1) Includes estimated reconciliation balances of \$51,547.49 and \$14,276.41 related to Hurricane Sandy and Hurricane Irene/Snowtober, respectively.

		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
		Total Billed kWh	Unbilled Factor	Unbilled kWh (a * b)	EDC (\$/kWh)	Unbilled EDC Revenue (c * d)	Reversal of prior month unbilled	Total Billed EDC Revenue	Total Revenue (e + f + g)
Aug-16	Actual	128,650,392	37.92%	48,790,335	\$0.02144	\$1,046,065	(\$1,258,716)	\$2,750,734	\$2,538,083
Sep-16	Actual	106,000,116	41.71%	44,215,690	\$0.02144	\$947,984	(\$1,046,065)	\$2,272,660	\$2,174,580
Oct-16	Actual	87,545,425	51.67%	45,238,283	\$0.02144	\$969,909	(\$947,984)	\$1,877,018	\$1,898,942
Nov-16	Actual	86,151,341	56.51%	48,680,766	\$0.02144	\$1,043,716	(\$969,909)	\$1,847,093	\$1,920,900
Dec-16	Actual	95,481,077	59.06%	56,386,870	\$0.02144	\$1,208,934	(\$1,043,716)	\$2,047,132	\$2,212,350
Jan-17	Actual	107,895,561	49.66%	53,583,570	\$0.02144	\$1,148,832	(\$1,208,934)	\$2,313,375	\$2,253,272
Feb-17	Actual	97,802,542	46.79%	45,756,984	\$0.02144	\$981,030	(\$1,148,832)	\$2,096,917	\$1,929,115
Mar-17	Actual	94,719,898	54.57%	51,687,231	\$0.02144	\$1,108,174	(\$981,030)	\$2,030,813	\$2,157,958
Apr-17	Actual	91,564,001	53.13%	48,647,892	\$0.02144	\$1,043,011	(\$1,108,174)	\$1,963,149	\$1,897,986
May-17	Actual	85,024,025	56.70%	48,209,499	\$0.02144	\$1,033,612	(\$1,043,011)	\$1,822,930	\$1,813,531
Jun-17	Actual	95,494,080	61.12%	58,368,981	\$0.02144	\$1,251,431	(\$1,033,612)	\$2,047,393	\$2,265,213
Jul-17	Actual	<u>117,332,608</u>	49.30%	<u>57,840,843</u>	\$0.02144	<u>\$1,240,108</u>	<u>(\$1,251,431)</u>	<u>\$2,515,527</u>	<u>\$2,504,204</u>
Total Aug-16 to Jul-17		1,193,661,066		607,406,946		\$13,022,805	(\$13,041,413)	\$25,584,741	\$25,566,133

		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
		Total Billed kWh (1)	Unbilled Factor (2)	Unbilled kWh (a * b)	EDC (\$/kWh)	Unbilled EDC Revenue (c * d)	Reversal of prior month unbilled	Total Billed EDC Revenue (2)	Total Revenue (e + f + g)	EDC Revenue Allocated to Transmission Only (3)	EDC Revenue Allocated to Non- Transmission (3)
Aug-17	Actual	112,387,166	44.18%	49,653,813	\$0.02637	\$1,309,371	(\$1,240,108)	\$2,681,274	\$2,750,538	\$2,693,170	\$57,368
Sep-17	Actual	101,356,268	58.96%	59,757,087	\$0.02637	\$1,575,794	(\$1,309,371)	\$2,672,791	\$2,939,215	\$2,877,911	\$61,303
Oct-17	Actual	98,016,117	53.64%	52,578,506	\$0.02637	\$1,386,495	(\$1,575,794)	\$2,584,733	\$2,395,434	\$2,345,472	\$49,962
Nov-17	Actual	86,076,230	57.38%	49,390,908	\$0.02637	\$1,302,438	(\$1,386,495)	\$2,269,587	\$2,185,530	\$2,139,946	\$45,584
Dec-17	Actual	100,972,656	56.56%	57,105,226	\$0.02637	\$1,505,865	(\$1,302,438)	\$2,662,671	\$2,866,097	\$2,806,319	\$59,778
Jan-18	Actual	118,288,676	45.93%	54,324,683	\$0.02637	\$1,432,542	(\$1,505,865)	\$3,119,602	\$3,046,279	\$2,982,742	\$63,536
Feb-18	Actual	101,459,074	45.79%	46,459,461	\$0.02637	\$1,225,136	(\$1,432,542)	\$2,675,464	\$2,468,058	\$2,416,582	\$51,476
Mar-18	Actual	96,543,317	48.67%	46,988,820	\$0.02637	\$1,239,095	(\$1,225,136)	\$2,545,769	\$2,559,728	\$2,506,340	\$53,388
Apr-18	Actual	90,962,753	48.56%	44,170,887	\$0.02637	\$1,164,786	(\$1,239,095)	\$2,398,353	\$2,324,044	\$2,275,571	\$48,473
May-18	Estimate	88,269,333	49.72%	43,887,512	\$0.02637	\$1,157,314	(\$1,164,786)	\$2,327,662	\$2,320,190	\$2,271,797	\$48,392
Jun-18	Estimate	96,074,136	51.85%	49,814,440	\$0.02637	\$1,313,607	(\$1,157,314)	\$2,533,475	\$2,689,768	\$2,633,667	\$56,101
Jul-18	Estimate	<u>106,831,221</u>	60.05%	64,152,148	\$0.02637	<u>\$1,691,692</u>	<u>(\$1,313,607)</u>	<u>\$2,817,139</u>	<u>\$3,195,225</u>	<u>\$3,128,582</u>	<u>\$66,643</u>
Total Aug-17 to Jul-18		1,197,236,947		618,283,490		\$16,304,136	(\$15,852,551)	\$31,288,521	\$31,740,105	\$31,078,101	\$662,004

		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
		Total Billed kWh (1)	Unbilled Factor (2)	Unbilled kWh (a * b)	EDC (\$/kWh)	Unbilled EDC Revenue (c * d)	Reversal of prior month unbilled	Total Billed EDC Revenue (2)	Total Revenue (e + f + g)	EDC Revenue Allocated to Transmission Only (3)	EDC Revenue Allocated to Non- Transmission (3)
Aug-18	Estimate	118,664,655	45.98%	54,562,009	\$0.02389	\$1,303,486	(\$1,691,692)	\$2,993,996	\$2,605,790	\$2,724,681	(\$118,891)
Sep-18	Estimate	102,211,561	50.45%	51,565,733	\$0.02389	\$1,231,905	(\$1,303,486)	\$2,441,834	\$2,370,253	\$2,478,398	(\$108,145)
Oct-18	Estimate	99,131,725	51.76%	51,310,581	\$0.02389	\$1,225,810	(\$1,231,905)	\$2,368,257	\$2,362,161	\$2,469,937	(\$107,775)
Nov-18	Estimate	90,622,227	55.78%	50,549,078	\$0.02389	\$1,207,617	(\$1,225,810)	\$2,164,965	\$2,146,773	\$2,244,721	(\$97,948)
Dec-18	Estimate	101,145,878	51.90%	52,494,711	\$0.02389	\$1,254,099	(\$1,207,617)	\$2,416,375	\$2,462,856	\$2,575,226	(\$112,370)
Jan-19	Estimate	112,908,398	49.57%	55,968,693	\$0.02389	\$1,337,092	(\$1,254,099)	\$2,697,382	\$2,780,375	\$2,907,232	(\$126,857)
Feb-19	Estimate	103,123,873	47.15%	48,622,906	\$0.02389	\$1,161,601	(\$1,337,092)	\$2,463,629	\$2,288,138	\$2,392,537	(\$104,398)
Mar-19	Estimate	96,257,212	50.87%	48,966,044	\$0.02389	\$1,169,799	(\$1,161,601)	\$2,299,585	\$2,307,782	\$2,413,077	(\$105,294)
Apr-19	Estimate	91,788,542	46.47%	42,654,136	\$0.02389	\$1,019,007	(\$1,169,799)	\$2,192,828	\$2,042,037	\$2,135,206	(\$93,170)
May-19	Estimate	87,655,211	49.82%	43,669,826	\$0.02389	\$1,043,272	(\$1,019,007)	\$2,094,083	\$2,118,348	\$2,214,999	(\$96,651)
Jun-19	Estimate	89,992,803	61.19%	55,066,596	\$0.02389	\$1,315,541	(\$1,043,272)	\$2,149,928	\$2,422,197	\$2,532,712	(\$110,515)
Jul-19	Estimate	<u>113,721,294</u>	50.98%	57,975,115	\$0.02389	<u>\$1,385,026</u>	<u>(\$1,315,541)</u>	<u>\$2,716,802</u>	<u>\$2,786,286</u>	<u>\$2,913,413</u>	<u>(\$127,127)</u>
Total Aug-18 to Jul-19		1,207,223,381		613,405,428		\$14,654,256	(\$14,960,922)	\$28,999,664	\$28,692,997	\$30,002,138	(\$1,309,141)

(1) Actual per billing system

(2) Detail of Unbilled Factors used in actuals for all classes shown on page 6.

(3) Allocation based on each component's factor to the total EDC rate, multiplied by the total revenue (column h).

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	<u>Billed kWh</u>	<u>Direct Estimate of Unbilled kWh</u>	<u>Unbilled kWh / Billed kWh</u>
Aug-16	128,650,392	48,790,335	37.92%
Sep-16	106,000,116	44,215,690	41.71%
Oct-16	87,545,425	45,238,283	51.67%
Nov-16	86,151,341	48,680,766	56.51%
Dec-16	95,481,077	56,386,870	59.06%
Jan-17	107,895,561	53,583,570	49.66%
Feb-17	97,802,542	45,756,984	46.79%
Mar-17	94,719,898	51,687,231	54.57%
Apr-17	91,564,001	48,647,892	53.13%
May-17	85,024,025	48,209,499	56.70%
Jun-17	95,494,080	58,368,981	61.12%
Jul-17	117,332,608	57,840,843	49.30%
Aug-17	112,387,166	49,653,813	44.18%
Sep-17	101,356,268	59,757,087	58.96%
Oct-17	98,016,117	52,578,506	53.64%
Nov-17	86,076,230	49,390,908	57.38%
Dec-17	100,972,656	57,105,226	56.56%
Jan-18	118,288,676	54,324,683	45.93%
Feb-18	101,459,074	46,459,461	45.79%
Mar-18	96,543,317	46,988,820	48.67%
Apr-18	90,962,753	44,170,887	48.56%

NHPUC No. 3 - Electricity Delivery
 Unifil Energy Systems, Inc.

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CALCULATION OF THE STRANDED COST CHARGE

Uniform per kWh Charge

1. (Over)/under Recovery - Beginning Balance August 1, 20187	(\$402,468)	(\$428,979)
2. Estimated Total Costs (August 20187 - July 20198)	(\$269,100)	(\$769,892)
3. Estimated Interest (August 20187 - July 20198)	(\$8,418)	(\$10,579)
4. Costs to be Recovered (L.1 + L.2 + L.3)	(\$679,986)	(\$1,209,450)
5. Estimated Calendar Month Deliveries in kWh (August 20187 - July 20198)	<u>1,191,465,060</u>	<u>1,201,046,348</u>
6. Stranded Cost Charge (\$/kWh) (L.4 / L.5)	(\$0.00057)	(\$0.00101)
Class D, D - Controlled Off Peak Water Heating, G2 - kWh meter, G2 - Quick Recovery Water Heating, G2 - Space Heating, <u>G2 Controlled Off Peak Water Heating, OL</u>		
7. Stranded Cost Charge (\$/kWh) (L.6)	(\$0.00057)	(\$0.00101)
<u>Class G2 (1)</u>		
8. Estimated G2 Demand Revenue (August 20187 - July 20198)	(\$152,406)	(\$275,318)
9. Estimated G2 Deliveries in kW (August 20187 - July 20198)	<u>1,333,442</u>	<u>1,335,793</u>
10. Stranded Cost Charge (\$/kW) (L. 8 / L. 9)	(\$0.11)	(\$0.21)
11. G2 Energy Revenue (August 20187 - July 20198)	(\$38,225)	(\$70,588)
12. Estimated G2 Calendar Month Deliveries in kWh (August 20187 - July 20198)	<u>334,440,260</u>	<u>342,481,395</u>
13. Stranded Cost Charge (\$/kWh) (L.11 / L.12)	(\$0.00011)	(\$0.00021)
<u>Class G1 (1)</u>		
14. Estimated G1 Demand Revenue (August 20187 - July 20198)	(\$150,302)	(\$261,862)
15. Estimated G1 Deliveries in kVA (August 20187 - July 20198)	<u>1,045,750</u>	<u>1,058,401</u>
16. Stranded Cost Charge (\$/kVA) (L. 14 / L. 15)	(\$0.14)	(\$0.25)
17. G1 Energy Revenue (August 20187 - July 20198)	(\$50,678)	(\$84,958)
18. Estimated G1 Calendar Month Deliveries in kWh (August 20187 - July 20198)	<u>352,596,702</u>	<u>343,385,757</u>
19. Stranded Cost Charge (\$/kWh) (L.17 / L.18)	(\$0.00014)	(\$0.00025)

(1) Demand and energy calculated based on ratio of demand and energy revenue under current rates.

Authorized by NHPUC Order No. ~~26,042~~ in Case No. DE-17-102, dated ~~July 24, 2017~~

Issued: June 14, 2018~~July 25, 2017~~
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 Sr. Vice President

NHPUC No. 3 - Electricity Delivery
Unitil Energy Systems, Inc.

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CALCULATION OF THE EXTERNAL DELIVERY CHARGE

	Calculation of the EDC - <u>Total</u>	Calculation of the EDC - <u>Transmission Only</u>	Calculation of the EDC - <u>Non-Transmission</u>
1. (Over)/under Recovery - Beginning Balance August 1, 2017	\$2,302,779	\$1,585,294	\$717,485
2. Estimated Total Costs (August 2017 - July 2018)	\$29,063,401	\$29,138,831	(\$75,430)
3. Estimated Interest (August 2017 - July 2018)	\$55,088	\$33,553	\$21,535
4. Costs to be Recovered (L.1 + L.2 + L.3)	\$31,421,268	\$30,757,678	\$663,589
5. Estimated Calendar Month Deliveries in kWh (August 2017 - July 2018)	1,191,465,060	1,191,465,060	1,191,465,060
6. External Delivery Charge (\$/kWh) (L. 4 / L. 5)	\$0.02637	\$0.02582	\$0.00055
1. (Over)/under Recovery - Beginning Balance August 1, 2018	\$543,166	\$1,521,755	(\$978,589)
2. Estimated Total Costs (August 2018 - July 2019)	\$28,134,350	\$28,454,228	(\$319,878)
3. Estimated Interest (August 2018 - July 2019)	<u>\$13,901</u>	<u>\$29,308</u>	<u>(\$15,408)</u>
4. Costs to be Recovered (L.1 + L.2 + L.3)	\$28,691,417	\$30,005,292	(\$1,313,875)
5. Estimated Calendar Month Deliveries in kWh (August 2018 - July 2019)	<u>1,201,046,348</u>	<u>1,201,046,348</u>	<u>1,201,046,348</u>
6. External Delivery Charge (\$/kWh) (L. 4 / L. 5)	\$0.02389	\$0.02498	(\$0.00109)

Authorized by NHPUC Order No. 26,042 in Case No. DE 17-102, dated July 24, 2017 and Secretarial Letter in Case No. DE 18-029, dated March 30, 2018.

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Sr. Vice President

SUMMARY OF DELIVERY SERVICE RATES (Includes Electricity Consumption Tax)

The effective rates listed below include an Electricity Consumption Tax, assessed in accordance with NH Statute RSA Chapter 83-E. This tax, collected on behalf of the State of NH by each electric utility, is based on kWh consumed. Each bill rendered for electric delivery service shall be calculated through the application of the effective rates as listed below.

Class		Distribution Charge*	Non-Transmission External Delivery Charge**	Transmission External Delivery Charge**	Total External Delivery Charge**	Stranded Cost Charge**	Storm Recovery Adjustment Factor***	System Benefits Charge****	Total Delivery Charges	Electricity Consumption Tax	Effective Delivery Rates (Incl. Electricity Consumption Tax)
D	Customer Charge	\$16.12						(1)	\$16.12		\$16.12
	All kWh	\$0.03537	(\$0.00109) \$0.00055	\$0.02498 \$0.02582	\$0.02389 \$0.02637	(\$0.00101) (\$0.00057)	\$0.00133	\$0.00456	\$0.06414 \$0.06706	\$0.00055	\$0.06469 \$0.06761
G2	Customer Charge	\$29.02							\$29.02		\$29.02
	All kW	\$10.45				(\$0.21) (\$0.11)			\$10.24 \$10.34		\$10.24 \$10.34
	All kWh	\$0.00000	(\$0.00109) \$0.00055	\$0.02498 \$0.02582	\$0.02389 \$0.02637	(\$0.00021) (\$0.00014)	\$0.00133	\$0.00456	\$0.02957 \$0.03215	\$0.00055	\$0.03012 \$0.03270
G2 - kWh meter	Customer Charge	\$18.27							\$18.27		\$18.27
	All kWh	\$0.00878	(\$0.00109) \$0.00055	\$0.02498 \$0.02582	\$0.02389 \$0.02637	(\$0.00101) (\$0.00057)	\$0.00133	\$0.00456	\$0.03755 \$0.04047	\$0.00055	\$0.03810 \$0.04102
G2 - Quick Recovery Water Heat and/or Space Heat	Customer Charge	\$9.67							\$9.67		\$9.67
	All kWh	\$0.03185	(\$0.00109) \$0.00055	\$0.02498 \$0.02582	\$0.02389 \$0.02637	(\$0.00101) (\$0.00057)	\$0.00133	\$0.00456	\$0.06062 \$0.06354	\$0.00055	\$0.06117 \$0.06409
G1	Customer Charge	\$161.23	Secondary Voltage						\$161.23		\$161.23
	Customer Charge	\$85.99	Primary Voltage						\$85.99		\$85.99
	All kVA	\$7.55				(\$0.25) (\$0.14)			\$7.30 \$7.41		\$7.30 \$7.41
	All kWh	\$0.00000	(\$0.00109) \$0.00055	\$0.02498 \$0.02582	\$0.02389 \$0.02637	(\$0.00025) (\$0.00014)	\$0.00133	\$0.00456	\$0.02953 \$0.03212	\$0.00055	\$0.03008 \$0.03267
ALL GENERAL	Transformer Ownership Credit (kW/kVa)										(\$0.50)
	Voltage Discount at 4,160 Volts or Over (all kW/kVA and kWh)										2.00%
	Voltage Discount at 34,500 Volts or Over (all kW/kVA and kWh)										3.50%

(1) Includes low-income portion of \$0.00150 per kWh, energy efficiency portion of \$0.00275 per kWh and lost base revenue portion of \$0.00031 per kWh

* Authorized by NHPUC Order No. 26,123 in Case No. DE 18-036, dated April 30, 2018
 ** Authorized by NHPUC Order No. 26,042 in Case No. DE 17-102, dated July 24, 2017
 *** Authorized by NHPUC Order No. 26,123 in Case No. DE 18-036, dated April 30, 2018
 **** Authorized by NHPUC Order No. 26,095 in Case No. DE 17-136, dated January 2, 2018

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 Sr. Vice President

SUMMARY OF DELIVERY SERVICE RATES (Includes Electricity Consumption Tax) (continued)

Class	Distribution Charge*	Non-Transmission	Transmission	Stranded Cost Charge**	Storm Recovery Adjustment Factor***	System Benefits Charge**** (1)	Total Delivery Charges	Electricity Consumption Tax	Effective Delivery Rates (Incl. Electricity Consumption Tax)
		External Delivery Charge**	External Delivery Charge**						
OL		(\$0.00109)	\$0.02498	\$0.02389			\$0.02877		\$0.02932
All kWh	\$0.00000	\$0.00055	\$0.02582	\$0.02637		\$0.00133	\$0.00456	\$0.00055	\$0.03224

Luminaire Charges

Lamp Size Nominal Watts	Lumens (Approx.)	All-Night Service	Midnight Service	Description	Price Per Luminaire	
		Monthly kWh	Monthly kWh		Per Mo.	Per Year
100	3,500	43	20	Mercury Vapor Street	\$13.20	\$158.40
175	7,000	71	33	Mercury Vapor Street	\$15.66	\$187.92
250	11,000	100	46	Mercury Vapor Street	\$17.75	\$213.00
400	20,000	157	73	Mercury Vapor Street	\$21.13	\$253.56
1,000	60,000	372	173	Mercury Vapor Street	\$41.95	\$503.40
250	11,000	100	46	Mercury Vapor Flood	\$18.90	\$226.80
400	20,000	157	73	Mercury Vapor Flood	\$22.62	\$271.44
1,000	60,000	380	176	Mercury Vapor Flood	\$37.48	\$449.76
100	3,500	48	22	Mercury Vapor Power Bracket	\$13.33	\$159.96
175	7,000	71	33	Mercury Vapor Power Bracket	\$14.79	\$177.48
50	4,000	23	11	Sodium Vapor Street	\$13.44	\$161.28
100	9,500	48	22	Sodium Vapor Street	\$15.13	\$181.56
150	16,000	65	30	Sodium Vapor Street	\$15.19	\$182.28
250	30,000	102	47	Sodium Vapor Street	\$19.03	\$228.36
400	50,000	161	75	Sodium Vapor Street	\$23.98	\$287.76
1,000	140,000	380	176	Sodium Vapor Street	\$41.42	\$497.04
150	16,000	65	30	Sodium Vapor Flood	\$17.51	\$210.12
250	30,000	102	47	Sodium Vapor Flood	\$20.64	\$247.68
400	50,000	161	75	Sodium Vapor Flood	\$23.45	\$281.40
1,000	140,000	380	176	Sodium Vapor Flood	\$41.78	\$501.36
50	4,000	23	11	Sodium Vapor Power Bracket	\$12.44	\$149.28
100	9,500	48	22	Sodium Vapor Power Bracket	\$13.96	\$167.52
175	8,800	74	34	Metal Halide Street	\$19.79	\$237.48
250	13,500	102	47	Metal Halide Street	\$21.52	\$258.24
400	23,500	158	73	Metal Halide Street	\$22.32	\$267.84
175	8,800	74	34	Metal Halide Flood	\$22.87	\$274.44
250	13,500	102	47	Metal Halide Flood	\$24.69	\$296.28
400	23,500	158	73	Metal Halide Flood	\$24.73	\$296.76
1,000	86,000	374	174	Metal Halide Flood	\$32.03	\$384.36
175	8,800	74	34	Metal Halide Power Bracket	\$18.52	\$222.24
250	13,500	102	47	Metal Halide Power Bracket	\$19.69	\$236.28
400	23,500	158	73	Metal Halide Power Bracket	\$21.05	\$252.60
42	3,600	15	7	LED Area Light Fixture	\$13.08	\$156.96
57	5,200	20	9	LED Area Light Fixture	\$13.13	\$157.56
25	3,000	9	4	LED Cobra Head Fixture	\$13.03	\$156.36
88	8,300	30	14	LED Cobra Head Fixture	\$13.22	\$158.64
108	11,500	37	17	LED Cobra Head Fixture	\$13.28	\$159.36
193	21,000	67	31	LED Cobra Head Fixture	\$13.54	\$162.48
123	12,180	43	20	LED Flood Light Fixture	\$13.33	\$159.96
194	25,700	67	31	LED Flood Light Fixture	\$13.54	\$162.48
297	38,100	103	48	LED Flood Light Fixture	\$13.85	\$166.20

(1) Includes low-income portion of \$0.00150 per kWh, energy efficiency portion of \$0.00275 per kWh and lost base revenue portion of \$0.00031 per kWh

* Authorized by NHPUC Order No. 26,123 in Case No. DE 18-036, dated April 30, 2018

** Authorized by NHPUC Order No. ~~26,042~~ in Case No. DE ~~17-102~~, dated ~~July 24, 2017~~

*** Authorized by NHPUC Order No. 26,123 in Case No. DE 18-036, dated April 30, 2018

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 Sr. Vice President

**SUMMARY OF LOW-INCOME
ELECTRIC ASSISTANCE PROGRAM DISCOUNTS**

Low-Income Electric Assistance Program (LI-EAP) Discounts for Eligible Customers

Tier	Percentage of Federal Poverty Guidelines	Discount (5)	Blocks	LI-EAP discount Delivery Only; Excludes Supply		LI-EAP discount Fixed Default Service Supply Only	LI-EAP discount Variable Default Service Supply Only								
				Jun 2018 - Nov 2018 (1)	Aug 2018 - Nov 2018 (1)	Jun 2018 - Nov 2018 (2)	Jun-18 (3)	Jul-18 (3)	Aug-18 (3)	Sep-18 (3)	Oct-18 (3)	Nov-18 (3)			
1 (4)	N/A	N/A													
2	151 - 200	8%	Customer Charge	(\$1.29)	(\$1.29)										
			First 750 kWh	(\$0.00536)	(\$0.00513)	(\$0.00659)	(\$0.00637)	(\$0.00632)	(\$0.00630)	(\$0.00665)	(\$0.00698)	(\$0.00708)			
			Excess 750 kWh	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000			
3	126 - 150	22%	Customer Charge	(\$3.55)	(\$3.55)										
			First 750 kWh	(\$0.01475)	(\$0.01411)	(\$0.01812)	(\$0.01751)	(\$0.01737)	(\$0.01734)	(\$0.01830)	(\$0.01920)	(\$0.01947)			
			Excess 750 kWh	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000			
4	101 - 125	36%	Customer Charge	(\$5.80)	(\$5.80)										
			First 750 kWh	(\$0.02414)	(\$0.02309)	(\$0.02966)	(\$0.02866)	(\$0.02843)	(\$0.02837)	(\$0.02994)	(\$0.03141)	(\$0.03186)			
			Excess 750 kWh	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000			
5	76 - 100	52%	Customer Charge	(\$8.38)	(\$8.38)										
			First 750 kWh	(\$0.03487)	(\$0.03335)	(\$0.04284)	(\$0.04139)	(\$0.04106)	(\$0.04098)	(\$0.04325)	(\$0.04538)	(\$0.04601)			
			Excess 750 kWh	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000			
6	0 - 75	76%	Customer Charge	(\$12.25)	(\$12.25)										
			First 750 kWh	(\$0.05097)	(\$0.04875)	(\$0.06261)	(\$0.06050)	(\$0.06001)	(\$0.05990)	(\$0.06321)	(\$0.06632)	(\$0.06725)			
			Excess 750 kWh	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000			

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- (1) Discount calculated using total utility charges from Page 4 (excluding the Electricity Consumption Tax) multiplied by the appropriate discount. These figures exclude default service and are applicable to customers choosing a Competitive Supplier or self-supply. Customers taking default service from the Company would receive these discounts plus the appropriate discount applicable to default service supply.
- (2) Discount calculated using Non-G1 class (Residential) Fixed Default Service Rate multiplied by the appropriate discount. These figures exclude delivery.
- (3) Discount calculated using Non-G1 class (Residential) Variable Default Service Rate, for the applicable month, multiplied by the appropriate discount. These figures exclude delivery.
- (4) Tier 1 was eliminated by Order No. 25,200 in DE 10-192 dated March 4, 2011.
- (5) Discounts effective July 1, 2016 in accordance with Order No. 25-901 in DE 14-078.

Authorized by NHPUC Order No. ~~26,119~~ in Case No. ~~DE 18-035~~, dated ~~April 13, 2018~~

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NHPUC No. 3 - Electricity Delivery
Unitil Energy Systems, Inc.

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Superseding ~~TenthNinth~~ Revised Page 66

EXTERNAL DELIVERY CHARGE
SCHEDULE EDC

The External Delivery Charge ("EDC"), as specified on Calculation of the External Delivery Charge, shall be billed by the Company to all customers taking Delivery Service from the Company. The purpose of the EDC is to recover, on a fully reconciling basis, the costs billed to the Company by Other Transmission Providers as well as third party costs billed to the Company for energy and transmission related services and other costs approved by the Commission as specified herein.

The EDC shall include the following charges, except that third party costs associated with Default Service shall be included in the Default Service Charge: 1) charges billed to the Company by Other Transmission Providers as well as any charges relating to the stability of the transmission system which the Company is authorized to recover by order of the regulatory agency having jurisdiction over such charges, 2) transmission-based assessments or fees billed by or through regulatory agencies, 3) costs billed by third parties for load estimation and reconciliation and data and information services necessary for allocation and reporting of supplier loads, and for reporting to, and receiving data from, ISO New England, 4) legal and consulting outside service charges related to the Company's transmission and energy obligations and responsibilities, including legal and regulatory activities associated with the independent system operator ("ISO"), New England Power Pool ("NEPOOL"), regional transmission organization ("RTO") and Federal Energy Regulatory Commission ("FERC"), and Commission approved special assessments charged to the Company due to the expenses of experts employed by the Office of Consumer Advocate pursuant to the provisions of RSA 368:28,III. 5) the costs of Administrative Service Charges billed to the Company by Unitil Power Corp. under the FERC-approved Amended Unitil System Agreement, 6) Effective July 1, 2014, in accordance with RSA 363-A:6, amounts above or below the total NHPUC Assessment, less amounts charged to base distribution and Default Service, and 7) cash working capital associated with Other Flow-Through Operating Expenses. In addition, the EDC shall include the calendar year over- or under-collection from the Company's Vegetation Management Program and Reliability Enhancement Program. The over- or under- collection shall be credited or charged to the EDC on May 1 of the following year, or, with approval of the Commission, the Company may credit unspent amounts to future Vegetation Management Program expenditures. The EDC shall include rate case expenses and other regulatory expenses allowed by the Commission in Docket DE 16-384. The EDC shall also include a charge for the recovery of displaced distribution revenue associated with net metering for 2013 and subsequent years. Lastly, the EDC shall include the prudently incurred costs, as approved by the Commission, associated with the alternative net metering tariff approved in Docket DE 16-576, including: net metering credits; meters installed and related data management; independent monitoring services, bi-directional and production meters installed and related data management systems and processes; pilot programs; studies; and data collection, maintenance and dissemination. For purposes of this Schedule, "Other Transmission Provider" shall be defined as any transmission provider and other regional transmission and/or operating entities, such as NEPOOL, a regional transmission group ("RTG"), an ISO, and their successors, or other such body with the oversight of regional transmission, in the event that any of these entities are authorized to bill the Company directly for their services.

The EDC shall be established annually based on a forecast of includable costs, and shall also include a full reconciliation with interest for any over- or under-recoveries occurring in prior year(s). Interest shall be calculated at the prime rate, with said prime rate to be fixed on a quarterly basis and to be established as reported in THE WALL STREET JOURNAL on the first business day of the month preceding the calendar quarter. If more than one interest rate is reported, the average of the reported rates shall be used. The Company may file to change the EDC at any time should significant over- or under-recoveries occur or be expected to occur. In addition, the Company's annual filing shall breakdown the EDC into two components (transmission and non-transmission) for purposes of billing under the alternative net metering tariff that became effective September 1, 2017.

Any adjustment to the EDC shall be in accordance with a notice filed with the Commission setting forth the amount of the proposed charge and the amount of the increase or decrease. The notice shall further specify the effective date of such charge, which shall not be earlier than forty-five days after the filing of the notice, or such other date as the Commission may authorize. The annual adjustment to the EDC shall be derived in the same manner as that provided by Calculation of the External Delivery Charge.

Authorized by Secretarial Letter in Case No. DE 18-029 dated March 30, 2018.

Issued: ~~June 14~~~~March 2~~, 2018
Effective: ~~August~~~~April~~ 1, 2018

Issued by: Mark H. Collin
Sr. Vice President

Unitil Energy Systems, Inc.
Typical Bill Impacts by Rate Component

Residential Rate D 650 kWh Bill

Rate Components	6/1/2018	8/1/2018	Difference	Current Bill*	As Revised Bill*	Difference	%
	Current Rate	As Revised					Difference to
							Total Bill
Customer Charge	\$16.12	\$16.12	\$0.00	\$16.12	\$16.12	\$0.00	0.0%
	<u>\$/kWh</u>	<u>\$/kWh</u>					
Distribution Charge	\$0.03537	\$0.03537	\$0.00000	\$22.99	\$22.99	\$0.00	0.0%
External Delivery Charge	\$0.02637	\$0.02389	(\$0.00248)	\$17.14	\$15.53	(\$1.61)	(1.4%)
Stranded Cost Charge	(\$0.00057)	(\$0.00101)	(\$0.00044)	(\$0.37)	(\$0.66)	(\$0.29)	(0.3%)
Storm Recovery Adj.	\$0.00133	\$0.00133	\$0.00000	\$0.86	\$0.86	\$0.00	0.0%
System Benefits Charge	\$0.00456	\$0.00456	\$0.00000	\$2.96	\$2.96	\$0.00	0.0%
Default Service Charge	<u>\$0.08238</u>	<u>\$0.08238</u>	<u>\$0.00000</u>	<u>\$53.55</u>	<u>\$53.55</u>	<u>\$0.00</u>	<u>0.0%</u>
Total kWh Charges	\$0.14944	\$0.14652	(\$0.00292)				
Total Bill				\$113.26	\$111.36	(\$1.90)	(1.7%)

Regular General G2 Demand, 11 kW, 2,800 kWh Typical Bill

Rate Components	6/1/2018	8/1/2018	Difference	Current Bill*	As Revised Bill*	Difference	%
	Current Rate	As Revised					Difference to
							Total Bill
Customer Charge	\$29.02	\$29.02	\$0.00	\$29.02	\$29.02	\$0.00	0.0%
	<u>All kW</u>	<u>All kW</u>					
Distribution Charge	\$10.45	\$10.45	\$0.00	\$114.95	\$114.95	\$0.00	0.0%
Stranded Cost Charge	<u>(\$0.11)</u>	<u>(\$0.21)</u>	<u>(\$0.10)</u>	<u>(\$1.21)</u>	<u>(\$2.31)</u>	<u>(\$1.10)</u>	<u>(0.3%)</u>
Total kW Charges	\$10.34	\$10.24	(\$0.10)	\$113.74	\$112.64	(\$1.10)	(0.3%)
	<u>\$/kWh</u>	<u>\$/kWh</u>					
Distribution Charge	\$0.00000	\$0.00000	\$0.00000	\$0.00	\$0.00	\$0.00	0.0%
External Delivery Charge	\$0.02637	\$0.02389	(\$0.00248)	\$73.84	\$66.89	(\$6.94)	(1.6%)
Stranded Cost Charge	(\$0.00011)	(\$0.00021)	(\$0.00010)	(\$0.31)	(\$0.59)	(\$0.28)	(0.1%)
Storm Recovery Adj.	\$0.00133	\$0.00133	\$0.00000	\$3.72	\$3.72	\$0.00	0.0%
System Benefits Charge	\$0.00456	\$0.00456	\$0.00000	\$12.77	\$12.77	\$0.00	0.0%
Default Service Charge	<u>\$0.07377</u>	<u>\$0.07377</u>	<u>\$0.00000</u>	<u>\$206.56</u>	<u>\$206.56</u>	<u>\$0.00</u>	<u>0.0%</u>
Total kWh Charges	\$0.10592	\$0.10334	(\$0.00258)	\$296.58	\$289.35	(\$7.22)	(1.6%)
Total Bill				\$439.34	\$431.01	(\$8.32)	(1.9%)

* Impacts do not include the Electricity Consumption Tax.

00045

**Unitil Energy Systems, Inc.
Typical Bill Impacts by Rate Component**

<u>Regular General G2 Quick Recovery Water Heating and Space Heating 1,660 kWh Typical Bill</u>							
	6/1/2018	8/1/2018					%
<u>Rate Components</u>	<u>Current Rate</u>	<u>As Revised</u>	<u>Difference</u>	<u>Current Bill*</u>	<u>As Revised Bill*</u>	<u>Difference</u>	<u>Difference to Total Bill</u>
Customer Charge	\$9.67	\$9.67	\$0.00	\$9.67	\$9.67	\$0.00	0.0%
	<u>\$/kWh</u>	<u>\$/kWh</u>					
Distribution Charge	\$0.03185	\$0.03185	\$0.00000	\$52.87	\$52.87	\$0.00	0.0%
External Delivery Charge	\$0.02637	\$0.02389	(\$0.00248)	\$43.77	\$39.66	(\$4.12)	(1.7%)
Stranded Cost Charge	(\$0.00057)	(\$0.00101)	(\$0.00044)	(\$0.95)	(\$1.68)	(\$0.73)	(0.3%)
Storm Recovery Adj.	\$0.00133	\$0.00133	\$0.00000	\$2.21	\$2.21	\$0.00	0.0%
System Benefits Charge	\$0.00456	\$0.00456	\$0.00000	\$7.57	\$7.57	\$0.00	0.0%
Default Service Charge	<u>\$0.07377</u>	<u>\$0.07377</u>	<u>\$0.00000</u>	<u>\$122.46</u>	<u>\$122.46</u>	<u>\$0.00</u>	<u>0.0%</u>
Total kWh Charges	\$0.13731	\$0.13439	(\$0.00292)	\$227.93	\$223.09	(\$4.85)	(2.0%)
Total Bill				\$237.60	\$232.76	(\$4.85)	(2.0%)

<u>Regular General G2 kWh Meter 115 kWh Typical Bill</u>							
	6/1/2018	8/1/2018					%
<u>Rate Components</u>	<u>Current Rate</u>	<u>As Revised</u>	<u>Difference</u>	<u>Current Bill*</u>	<u>As Revised Bill*</u>	<u>Difference</u>	<u>Difference to Total Bill</u>
Customer Charge	\$18.27	\$18.27	\$0.00	\$18.27	\$18.27	\$0.00	0.0%
	<u>\$/kWh</u>	<u>\$/kWh</u>					
Distribution Charge	\$0.00878	\$0.00878	\$0.00000	\$1.01	\$1.01	\$0.00	0.0%
External Delivery Charge	\$0.02637	\$0.02389	(\$0.00248)	\$3.03	\$2.75	(\$0.29)	(0.9%)
Stranded Cost Charge	(\$0.00057)	(\$0.00101)	(\$0.00044)	(\$0.07)	(\$0.12)	(\$0.05)	(0.2%)
Storm Recovery Adj.	\$0.00133	\$0.00133	\$0.00000	\$0.15	\$0.15	\$0.00	0.0%
System Benefits Charge	\$0.00456	\$0.00456	\$0.00000	\$0.52	\$0.52	\$0.00	0.0%
Default Service Charge	<u>\$0.07377</u>	<u>\$0.07377</u>	<u>\$0.00000</u>	<u>\$8.48</u>	<u>\$8.48</u>	<u>\$0.00</u>	<u>0.0%</u>
Total kWh Charges	\$0.11424	\$0.11132	(\$0.00292)	\$13.14	\$12.80	(\$0.34)	(1.1%)
Total Bill				\$31.41	\$31.07	(\$0.34)	(1.1%)

* Impacts do not include the Electricity Consumption Tax.

00046

**Unitil Energy Systems, Inc.
Typical Bill Impacts by Rate Component**

<u>Large General - G1 550 kVa, 200,000 kWh Typical Bill</u>							
	6/1/2018	8/1/2018					%
<u>Rate Components</u>	<u>Current Rate</u>	<u>As Revised</u>	<u>Difference</u>	<u>Current Bill*</u>	<u>As Revised Bill*</u>	<u>Difference</u>	<u>Difference to Total Bill</u>
Customer Charge	\$161.23	\$161.23	\$0.00	\$161.23	\$161.23	\$0.00	0.0%
	<u>All kVa</u>	<u>All kVa</u>					
Distribution Charge	\$7.55	\$7.55	\$0.00	\$4,152.50	\$4,152.50	\$0.00	0.0%
Stranded Cost Charge	<u>(\$0.14)</u>	<u>(\$0.25)</u>	<u>(\$0.11)</u>	<u>(\$77.00)</u>	<u>(\$137.50)</u>	<u>(\$60.50)</u>	<u>(0.3%)</u>
Total kVa Charges	\$7.41	\$7.30	(\$0.11)	\$4,075.50	\$4,015.00	(\$60.50)	(0.3%)
	<u>\$/kWh</u>	<u>\$/kWh</u>					
Distribution Charge	\$0.00000	\$0.00000	\$0.00000	\$0.00	\$0.00	\$0.00	0.0%
External Delivery Charge	\$0.02637	\$0.02389	(\$0.00248)	\$5,274.00	\$4,778.00	(\$496.00)	(2.1%)
Stranded Cost Charge	(\$0.00014)	(\$0.00025)	(\$0.00011)	(\$28.00)	(\$50.00)	(\$22.00)	(0.1%)
Storm Recovery Adj.	\$0.00133	\$0.00133	\$0.00000	\$266.00	\$266.00	\$0.00	0.0%
System Benefits Charge	\$0.00456	\$0.00456	\$0.00000	\$912.00	\$912.00	\$0.00	0.0%
Default Service Charge **	<u>\$0.06700</u>	<u>\$0.06700</u>	<u>\$0.00000</u>	<u>\$13,400.00</u>	<u>\$13,400.00</u>	<u>\$0.00</u>	<u>0.0%</u>
Total kWh Charges	\$0.09912	\$0.09653	(\$0.00259)	\$19,824.00	\$19,306.00	(\$518.00)	(2.2%)
Total Bill				\$24,060.73	\$23,482.23	(\$578.50)	(2.4%)

* Impacts do not include the Electricity Consumption Tax.

** Default Service Charge for the G1 class is determined monthly. For purposes of this comparison, the rate is unchanged.

00047

Unitol Energy Systems, Inc.
Typical Bill Impacts for Residential Rate Class based on Mean and Median Usage

Residential Rate D 655 kWh Bill - Mean Use*

	6/1/2018	8/1/2018					%
<u>Rate Components</u>	<u>Current Rate</u>	<u>As Revised</u>	<u>Difference</u>	<u>Current Bill**</u>	<u>As Revised Bill**</u>	<u>Difference</u>	<u>Difference to Total Bill</u>
Customer Charge	\$16.12	\$16.12	\$0.00	\$16.12	\$16.12	\$0.00	0.0%
	<u>\$/kWh</u>	<u>\$/kWh</u>					
Distribution Charge	\$0.03537	\$0.03537	\$0.00000	\$23.17	\$23.17	\$0.00	0.0%
External Delivery Charge	\$0.02637	\$0.02389	(\$0.00248)	\$17.27	\$15.65	(\$1.62)	(1.4%)
Stranded Cost Charge	(\$0.00057)	(\$0.00101)	(\$0.00044)	(\$0.37)	(\$0.66)	(\$0.29)	(0.3%)
Storm Recovery Adj.	\$0.00133	\$0.00133	\$0.00000	\$0.87	\$0.87	\$0.00	0.0%
System Benefits Charge	\$0.00456	\$0.00456	\$0.00000	\$2.99	\$2.99	\$0.00	0.0%
Default Service Charge	<u>\$0.08238</u>	<u>\$0.08238</u>	<u>\$0.00000</u>	<u>\$53.96</u>	<u>\$53.96</u>	<u>\$0.00</u>	<u>0.0%</u>
Total kWh Charges	\$0.14944	\$0.14652	(\$0.00292)				
Total Bill				\$114.00	\$112.09	(\$1.91)	(1.7%)

Residential Rate D 533 kWh Bill - Median Use*

	6/1/2018	8/1/2018					%
<u>Rate Components</u>	<u>Current Rate</u>	<u>As Revised</u>	<u>Difference</u>	<u>Current Bill**</u>	<u>As Revised Bill**</u>	<u>Difference</u>	<u>Difference to Total Bill</u>
Customer Charge	\$16.12	\$16.12	\$0.00	\$16.12	\$16.12	\$0.00	0.0%
	<u>\$/kWh</u>	<u>\$/kWh</u>					
Distribution Charge	\$0.03537	\$0.03537	\$0.00000	\$18.85	\$18.85	\$0.00	0.0%
External Delivery Charge	\$0.02637	\$0.02389	(\$0.00248)	\$14.06	\$12.73	(\$1.32)	(1.4%)
Stranded Cost Charge	(\$0.00057)	(\$0.00101)	(\$0.00044)	(\$0.30)	(\$0.54)	(\$0.23)	(0.2%)
Storm Recovery Adj.	\$0.00133	\$0.00133	\$0.00000	\$0.71	\$0.71	\$0.00	0.0%
System Benefits Charge	\$0.00456	\$0.00456	\$0.00000	\$2.43	\$2.43	\$0.00	0.0%
Default Service Charge	<u>\$0.08238</u>	<u>\$0.08238</u>	<u>\$0.00000</u>	<u>\$43.91</u>	<u>\$43.91</u>	<u>\$0.00</u>	<u>0.0%</u>
Total kWh Charges	\$0.14944	\$0.14652	(\$0.00292)				
Total Bill				\$95.77	\$94.22	(\$1.56)	(1.6%)

* Based on billing period July 2017 through March 2018.
** Impacts do not include the Electricity Consumption Tax.

00048

Unitil Energy Systems, Inc.
Average Class Bill Impacts
Due to Proposed Rate Changes Effective August 1, 2018

(A) <u>Class of Service</u>	(B) Annual Number of Customers (luminaires for Outdoor Lighting)	(C) Annual kWh Sales	(D) Annual kW / kVA Sales	(E) Proposed SCC Change \$	(F) Proposed EDC Change \$	(G) Estimated Annual Revenue \$ Under Present Rates	(H) Estimated Annual Revenue \$ Under Proposed Rates	(I) Proposed Net Change Revenue \$	(J) % Change Net SCC & EDC Revenue
Residential	785,306	497,875,828	n/a	(\$219,065)	(\$1,234,732)	\$87,061,700	\$85,607,903	(\$1,453,797)	(1.7%)
General Service	131,872	354,161,409	1,348,556	(\$155,831)	(\$878,320)	\$55,320,799	\$54,286,648	(\$1,034,151)	(1.9%)
Large General Service	1,878	353,924,392	1,022,850	(\$155,727)	(\$877,732)	\$42,726,693	\$41,693,234	(\$1,033,459)	(2.4%)
Outdoor Lighting	110,850	8,241,454	n/a	(\$3,626)	(\$20,439)	\$2,737,725	\$2,713,660	(\$24,065)	(0.9%)
Total	1,029,906	1,214,203,082		(\$534,249)	(\$3,011,224)	\$187,846,918	\$184,301,445	(\$3,545,473)	(1.9%)

(B), (C), (D) Test year billing determinants in DE 16-384.

(E) and (F) Difference in proposed rate and current rate, times the billing determinants shown in Column (C).

(G) Based on current rates times billing determinants shown in Columns (B), (C) and (D).

(H) Sum of Columns (E) through (G)

(I) Column (H) minus Column (G)

(J) Column (E) + Column (F) divided by Column (G)

Unitil Energy Systems, Inc.
Typical Bill Impacts - June 1, 2018 vs. August 1, 2018
Impacts do NOT include the Electricity Consumption Tax
Impact on D Rate Customers

<u>Average kWh</u>	<u>Total Bill Using Rates 6/1/2018</u>	<u>Total Bill Using Rates 8/1/2018</u>	<u>Total Difference</u>	<u>% Total Difference</u>
125	\$34.80	\$34.44	(\$0.37)	(1.0%)
150	\$38.54	\$38.10	(\$0.44)	(1.1%)
200	\$46.01	\$45.42	(\$0.58)	(1.3%)
250	\$53.48	\$52.75	(\$0.73)	(1.4%)
300	\$60.95	\$60.08	(\$0.88)	(1.4%)
350	\$68.42	\$67.40	(\$1.02)	(1.5%)
400	\$75.90	\$74.73	(\$1.17)	(1.5%)
450	\$83.37	\$82.05	(\$1.31)	(1.6%)
500	\$90.84	\$89.38	(\$1.46)	(1.6%)
525	\$94.58	\$93.04	(\$1.53)	(1.6%)
550	\$98.31	\$96.71	(\$1.61)	(1.6%)
575	\$102.05	\$100.37	(\$1.68)	(1.6%)
600	\$105.78	\$104.03	(\$1.75)	(1.7%)
625	\$109.52	\$107.70	(\$1.83)	(1.7%)
650	\$113.26	\$111.36	(\$1.90)	(1.7%)
675	\$116.99	\$115.02	(\$1.97)	(1.7%)
700	\$120.73	\$118.68	(\$2.04)	(1.7%)
725	\$124.46	\$122.35	(\$2.12)	(1.7%)
750	\$128.20	\$126.01	(\$2.19)	(1.7%)
775	\$131.94	\$129.67	(\$2.26)	(1.7%)
825	\$139.41	\$137.00	(\$2.41)	(1.7%)
925	\$154.35	\$151.65	(\$2.70)	(1.7%)
1,000	\$165.56	\$162.64	(\$2.92)	(1.8%)
1,250	\$202.92	\$199.27	(\$3.65)	(1.8%)
1,500	\$240.28	\$235.90	(\$4.38)	(1.8%)
2,000	\$315.00	\$309.16	(\$5.84)	(1.9%)
3,500	\$539.16	\$528.94	(\$10.22)	(1.9%)
5,000	\$763.32	\$748.72	(\$14.60)	(1.9%)

	<u>Rates - Effective June 1, 2018</u>	<u>Rates - Proposed August 1, 2018</u>	<u>Difference</u>
Customer Charge	\$16.12	\$16.12	\$0.00
Distribution Charge:	<u>kWh</u> \$0.03537	<u>kWh</u> \$0.03537	<u>kWh</u> \$0.00000
External Delivery Charge	\$0.02637	\$0.02389	(\$0.00248)
Stranded Cost Charge	(\$0.00057)	(\$0.00101)	(\$0.00044)
Storm Recovery Adjustment Factor	\$0.00133	\$0.00133	\$0.00000
System Benefits Charge	\$0.00456	\$0.00456	\$0.00000
Default Service Charge	<u>\$0.08238</u>	<u>\$0.08238</u>	<u>\$0.00000</u>
TOTAL	\$0.14944	\$0.14652	(\$0.00292)

Unitil Energy Systems, Inc.
Typical Bill Impacts - June 1, 2018 vs. August 1, 2018
Impacts do NOT include the Electricity Consumption Tax
Impact on G2 Rate Customers

<u>Load Factor</u>	<u>Average Monthly kW</u>	<u>Average Monthly kWh</u>	<u>Total Bill Using Rates 6/1/2018</u>	<u>Total Bill Using Rates 8/1/2018</u>	<u>Total Difference</u>	<u>% Total Difference</u>
20%	5	730	\$158.04	\$155.66	(\$2.38)	(1.5%)
20%	10	1,460	\$287.06	\$282.30	(\$4.77)	(1.7%)
20%	15	2,190	\$416.08	\$408.93	(\$7.15)	(1.7%)
20%	25	3,650	\$674.13	\$662.21	(\$11.92)	(1.8%)
20%	50	7,300	\$1,319.24	\$1,295.40	(\$23.83)	(1.8%)
20%	75	10,950	\$1,964.34	\$1,928.59	(\$35.75)	(1.8%)
20%	100	14,600	\$2,609.45	\$2,561.78	(\$47.67)	(1.8%)
20%	150	21,900	\$3,899.67	\$3,828.17	(\$71.50)	(1.8%)
36%	5	1,314	\$219.90	\$216.01	(\$3.89)	(1.8%)
36%	10	2,628	\$410.78	\$403.00	(\$7.78)	(1.9%)
36%	15	3,942	\$601.66	\$589.99	(\$11.67)	(1.9%)
36%	25	6,570	\$983.41	\$963.96	(\$19.45)	(2.0%)
36%	50	13,140	\$1,937.81	\$1,898.91	(\$38.90)	(2.0%)
36%	75	19,710	\$2,892.20	\$2,833.85	(\$58.35)	(2.0%)
36%	100	26,280	\$3,846.60	\$3,768.80	(\$77.80)	(2.0%)
36%	150	39,420	\$5,755.39	\$5,638.68	(\$116.70)	(2.0%)
50%	5	1,825	\$274.02	\$268.82	(\$5.21)	(1.9%)
50%	10	3,650	\$519.03	\$508.61	(\$10.42)	(2.0%)
50%	15	5,475	\$764.03	\$748.41	(\$15.63)	(2.0%)
50%	25	9,125	\$1,254.04	\$1,228.00	(\$26.04)	(2.1%)
50%	50	18,250	\$2,479.06	\$2,426.98	(\$52.09)	(2.1%)
50%	75	27,375	\$3,704.08	\$3,625.95	(\$78.13)	(2.1%)
50%	100	36,500	\$4,929.10	\$4,824.93	(\$104.17)	(2.1%)
50%	150	54,750	\$7,379.14	\$7,222.89	(\$156.26)	(2.1%)
		<u>Rates - Effective June 1, 2018</u>	<u>Rates - Proposed August 1, 2018</u>	<u>Difference</u>		
Customer Charge		\$29.02	\$29.02	\$0.00		
		<u>All kW</u>	<u>All kW</u>	<u>All kW</u>		
Distribution Charge		\$10.45	\$10.45	\$0.00		
Stranded Cost Charge		(\$0.11)	(\$0.21)	(\$0.10)		
TOTAL		\$10.34	\$10.24	(\$0.10)		
		<u>kWh</u>	<u>kWh</u>	<u>kWh</u>		
Distribution Charge		\$0.00000	\$0.00000	\$0.00000		
External Delivery Charge		\$0.02637	\$0.02389	(\$0.00248)		
Stranded Cost Charge		(\$0.00011)	(\$0.00021)	(\$0.00010)		
Storm Recovery Adj. Factor		\$0.00133	\$0.00133	\$0.00000		
System Benefits Charge		\$0.00456	\$0.00456	\$0.00000		
Default Service Charge		\$0.07377	\$0.07377	\$0.00000		
TOTAL		\$0.10592	\$0.10334	(\$0.00258)		

Unitil Energy Systems, Inc. Typical Bill Impacts - June 1, 2018 vs. August 1, 2018 Impacts do NOT include the Electricity Consumption Tax Impact on G2 kWh Meter Rate Customers				
Average Monthly kWh	Total Bill Using Rates 6/1/2018	Total Bill Using Rates 8/1/2018	Total Difference	% Total Difference
15	\$19.98	\$19.94	(\$0.04)	(0.2%)
75	\$26.84	\$26.62	(\$0.22)	(0.8%)
150	\$35.41	\$34.97	(\$0.44)	(1.2%)
250	\$46.83	\$46.10	(\$0.73)	(1.6%)
350	\$58.25	\$57.23	(\$1.02)	(1.8%)
450	\$69.68	\$68.36	(\$1.31)	(1.9%)
550	\$81.10	\$79.50	(\$1.61)	(2.0%)
650	\$92.53	\$90.63	(\$1.90)	(2.1%)
750	\$103.95	\$101.76	(\$2.19)	(2.1%)
900	\$121.09	\$118.46	(\$2.63)	(2.2%)
	Rates - Effective June 1, 2018	Rates - Proposed August 1, 2018	Difference	
kWh Meter Customer Charge	\$18.27	\$18.27	\$0.00	
	All kWh	All kWh	All kWh	
Distribution Charge	\$0.00878	\$0.00878	\$0.00000	
External Delivery Charge	\$0.02637	\$0.02389	(\$0.00248)	
Stranded Cost Charge	(\$0.00057)	(\$0.00101)	(\$0.00044)	
Storm Recovery Adjustment Factor	\$0.00133	\$0.00133	\$0.00000	
System Benefits Charge	\$0.00456	\$0.00456	\$0.00000	
Default Service Charge	<u>\$0.07377</u>	<u>\$0.07377</u>	<u>\$0.00000</u>	
TOTAL	\$0.11424	\$0.11132	(\$0.00292)	

Unitil Energy Systems, Inc.
Typical Bill Impacts - June 1, 2018 vs. August 1, 2018
Impacts do NOT include the Electricity Consumption Tax
Impact on G2 QRWH and SH Rate Customers

<u>Average kWh</u>	<u>Total Bill Using Rates 6/1/2018</u>	<u>Total Bill Using Rates 8/1/2018</u>	<u>Total Difference</u>	<u>% Total Difference</u>
100	\$23.40	\$23.11	(\$0.29)	(1.2%)
200	\$37.13	\$36.55	(\$0.58)	(1.6%)
300	\$50.86	\$49.99	(\$0.88)	(1.7%)
400	\$64.59	\$63.43	(\$1.17)	(1.8%)
500	\$78.33	\$76.87	(\$1.46)	(1.9%)
750	\$112.65	\$110.46	(\$2.19)	(1.9%)
1,000	\$146.98	\$144.06	(\$2.92)	(2.0%)
1,500	\$215.64	\$211.26	(\$4.38)	(2.0%)
2,000	\$284.29	\$278.45	(\$5.84)	(2.1%)
2,500	\$352.95	\$345.65	(\$7.30)	(2.1%)

	<u>Rates - Effective June 1, 2018</u>	<u>Rates - Proposed August 1, 2018</u>	<u>Difference</u>
Customer Charge	\$9.67	\$9.67	\$0.00
	<u>All kWh</u>	<u>All kWh</u>	<u>All kWh</u>
Distribution Charge	\$0.03185	\$0.03185	\$0.00000
External Delivery Charge	\$0.02637	\$0.02389	(\$0.00248)
Stranded Cost Charge	(\$0.00057)	(\$0.00101)	(\$0.00044)
Storm Recovery Adjustment Factor	\$0.00133	\$0.00133	\$0.00000
System Benefits Charge	\$0.00456	\$0.00456	\$0.00000
Default Service Charge	<u>\$0.07377</u>	<u>\$0.07377</u>	<u>\$0.00000</u>
TOTAL	\$0.13731	\$0.13439	(\$0.00292)

Unitil Energy Systems, Inc. Typical Bill Impacts - June 1, 2018 vs. August 1, 2018 Impacts do NOT include the Electricity Consumption Tax Impact on G1 Rate Customers						
Load Factor	Average Monthly kVa	Average Monthly kWh	Total Bill Using Rates 6/1/2018	Total Bill Using Rates 8/1/2018	Total Difference	% Total Difference
25.0%	200	36,500	\$5,261.11	\$5,144.58	(\$116.54)	(2.2%)
25.0%	400	73,000	\$10,360.99	\$10,127.92	(\$233.07)	(2.2%)
25.0%	600	109,500	\$15,460.87	\$15,111.27	(\$349.61)	(2.3%)
25.0%	800	146,000	\$20,560.75	\$20,094.61	(\$466.14)	(2.3%)
25.0%	1,000	182,500	\$25,660.63	\$25,077.96	(\$582.67)	(2.3%)
25.0%	1,500	273,750	\$38,410.33	\$37,536.32	(\$874.01)	(2.3%)
25.0%	2,000	365,000	\$51,160.03	\$49,994.68	(\$1,165.35)	(2.3%)
25.0%	2,500	456,250	\$63,909.73	\$62,453.04	(\$1,456.69)	(2.3%)
25.0%	3,000	547,500	\$76,659.43	\$74,911.41	(\$1,748.03)	(2.3%)
40.0%	200	58,400	\$7,431.84	\$7,258.58	(\$173.26)	(2.3%)
40.0%	400	116,800	\$14,702.45	\$14,355.93	(\$346.51)	(2.4%)
40.0%	600	175,200	\$21,973.05	\$21,453.29	(\$519.77)	(2.4%)
40.0%	800	233,600	\$29,243.66	\$28,550.64	(\$693.02)	(2.4%)
40.0%	1,000	292,000	\$36,514.27	\$35,647.99	(\$866.28)	(2.4%)
40.0%	1,500	438,000	\$54,690.79	\$53,391.37	(\$1,299.42)	(2.4%)
40.0%	2,000	584,000	\$72,867.31	\$71,134.75	(\$1,732.56)	(2.4%)
40.0%	2,500	730,000	\$91,043.83	\$88,878.13	(\$2,165.70)	(2.4%)
40.0%	3,000	876,000	\$109,220.35	\$106,621.51	(\$2,598.84)	(2.4%)
57.0%	200	83,220	\$9,892.00	\$9,654.46	(\$237.54)	(2.4%)
57.0%	400	166,440	\$19,622.76	\$19,147.68	(\$475.08)	(2.4%)
57.0%	600	249,660	\$29,353.53	\$28,640.91	(\$712.62)	(2.4%)
57.0%	800	332,880	\$39,084.30	\$38,134.14	(\$950.16)	(2.4%)
57.0%	1,000	416,100	\$48,815.06	\$47,627.36	(\$1,187.70)	(2.4%)
57.0%	1,500	624,150	\$73,141.98	\$71,360.43	(\$1,781.55)	(2.4%)
57.0%	2,000	832,200	\$97,468.89	\$95,093.50	(\$2,375.40)	(2.4%)
57.0%	2,500	1,040,250	\$121,795.81	\$118,826.56	(\$2,969.25)	(2.4%)
57.0%	3,000	1,248,300	\$146,122.73	\$142,559.63	(\$3,563.10)	(2.4%)
71.0%	200	103,660	\$11,918.01	\$11,627.53	(\$290.48)	(2.4%)
71.0%	400	207,320	\$23,674.79	\$23,093.83	(\$580.96)	(2.5%)
71.0%	600	310,980	\$35,431.57	\$34,560.13	(\$871.44)	(2.5%)
71.0%	800	414,640	\$47,188.35	\$46,026.43	(\$1,161.92)	(2.5%)
71.0%	1,000	518,300	\$58,945.13	\$57,492.73	(\$1,452.40)	(2.5%)
71.0%	1,500	777,450	\$88,337.07	\$86,158.48	(\$2,178.60)	(2.5%)
71.0%	2,000	1,036,600	\$117,729.02	\$114,824.23	(\$2,904.79)	(2.5%)
71.0%	2,500	1,295,750	\$147,120.97	\$143,489.98	(\$3,630.99)	(2.5%)
71.0%	3,000	1,554,900	\$176,512.92	\$172,155.73	(\$4,357.19)	(2.5%)

	Rates - Effective June 1, 2018	Rates - Proposed August 1, 2018	Difference
Customer Charge	\$161.23	\$161.23	\$0.00
	<u>All kVA</u>	<u>All kVA</u>	<u>All kVA</u>
Distribution Charge	\$7.55	\$7.55	\$0.00
Stranded Cost Charge	(\$0.14)	(\$0.25)	(\$0.11)
TOTAL	\$7.41	\$7.30	(\$0.11)
	<u>All kWh</u>	<u>All kWh</u>	<u>All kWh</u>
Distribution Charge	\$0.00000	\$0.00000	\$0.00000
External Delivery Charge	\$0.02637	\$0.02389	(\$0.00248)
Stranded Cost Charge	(\$0.00014)	(\$0.00025)	(\$0.00011)
Storm Recovery Adjustment Factor	\$0.00133	\$0.00133	\$0.00000
System Benefits Charge	\$0.00456	\$0.00456	\$0.00000
Default Service Charge*	\$0.06700	\$0.06700	\$0.00000
TOTAL	\$0.09912	\$0.09653	(\$0.00259)

* Default Service Charge for the G1 class is determined monthly. For purposes of this comparison, the rate is unchanged.

Unitil Energy Systems, Inc. Typical Bill Impacts - June 1, 2018 vs. August 1, 2018 Impacts do NOT include the Electricity Consumption Tax Impact on OL Rate Customers *								
	Nominal Watts	Lumens	Type	Average Monthly kWh	Total Bill Using Rates 6/1/2018	Total Bill Using Rates 8/1/2018	Total Difference	% Total Difference
<u>Mercury Vapor:</u>								
1	100	3,500	ST	40	\$17.42	\$17.30	(\$0.12)	(0.7%)
2	175	7,000	ST	67	\$22.73	\$22.53	(\$0.20)	(0.9%)
3	250	11,000	ST	95	\$27.77	\$27.49	(\$0.28)	(1.0%)
4	400	20,000	ST	154	\$37.37	\$36.92	(\$0.45)	(1.2%)
5	1,000	60,000	ST	388	\$82.87	\$81.74	(\$1.13)	(1.4%)
6	250	11,000	FL	95	\$28.92	\$28.64	(\$0.28)	(1.0%)
7	400	20,000	FL	154	\$38.86	\$38.41	(\$0.45)	(1.2%)
8	1,000	60,000	FL	388	\$78.40	\$77.27	(\$1.13)	(1.4%)
9	100	3,500	PB	40	\$17.55	\$17.43	(\$0.12)	(0.7%)
10	175	7,000	PB	67	\$21.86	\$21.66	(\$0.20)	(0.9%)
<u>High Pressure Sodium:</u>								
11	50	4,000	ST	21	\$15.65	\$15.59	(\$0.06)	(0.4%)
12	100	9,500	ST	43	\$19.66	\$19.54	(\$0.13)	(0.6%)
13	150	16,000	ST	60	\$21.52	\$21.34	(\$0.18)	(0.8%)
14	250	30,000	ST	101	\$29.68	\$29.39	(\$0.29)	(1.0%)
15	400	50,000	ST	161	\$40.96	\$40.49	(\$0.47)	(1.1%)
16	1,000	140,000	ST	398	\$83.39	\$82.23	(\$1.16)	(1.4%)
17	150	16,000	FL	60	\$23.84	\$23.66	(\$0.18)	(0.7%)
18	250	30,000	FL	101	\$31.29	\$31.00	(\$0.29)	(0.9%)
19	400	50,000	FL	161	\$40.43	\$39.96	(\$0.47)	(1.2%)
20	1,000	140,000	FL	398	\$83.75	\$82.59	(\$1.16)	(1.4%)
21	50	4,000	PB	21	\$14.65	\$14.59	(\$0.06)	(0.4%)
22	100	9,500	PB	43	\$18.49	\$18.37	(\$0.13)	(0.7%)
<u>Metal Halide:</u>								
23	175	8,800	ST	74	\$27.59	\$27.38	(\$0.22)	(0.8%)
24	250	13,500	ST	102	\$32.28	\$31.98	(\$0.30)	(0.9%)
25	400	23,500	ST	158	\$38.98	\$38.52	(\$0.46)	(1.2%)
26	175	8,800	FL	74	\$30.67	\$30.46	(\$0.22)	(0.7%)
27	250	13,500	FL	102	\$35.45	\$35.15	(\$0.30)	(0.8%)
28	400	23,500	FL	158	\$41.39	\$40.93	(\$0.46)	(1.1%)
29	1,000	86,000	FL	374	\$71.47	\$70.38	(\$1.09)	(1.5%)
30	175	8,800	PB	74	\$26.32	\$26.11	(\$0.22)	(0.8%)
31	250	13,500	PB	102	\$30.45	\$30.15	(\$0.30)	(1.0%)
32	400	23,500	PB	158				
Luminaire Charges For Year Round Service:								
Rates - Effective June 1, 2018								
		Mercury Vapor Rate/Mo.		Sodium Vapor Rate/Mo.		Metal Halide Rate/Mo.		
Customer Charge	\$0.00	1 \$13.20		11 \$13.44		23 \$19.79		
		2 \$15.66		12 \$15.13		24 \$21.52		
	<u>All kWh</u>	3 \$17.75		13 \$15.19		25 \$22.32		
Distribution Charge	\$0.00000	4 \$21.13		14 \$19.03		26 \$22.87		
External Delivery Charge	\$0.02637	5 \$41.95		15 \$23.98		27 \$24.69		
Stranded Cost Charge	(\$0.00057)	6 \$18.90		16 \$41.42		28 \$24.73		
Storm Recovery Adj. Factor	\$0.00133	7 \$22.62		17 \$17.51		29 \$32.03		
System Benefits Charge	\$0.00456	8 \$37.48		18 \$20.64		30 \$18.52		
Default Service Charge	<u>\$0.07377</u>	9 \$13.33		19 \$23.45		31 \$19.69		
		10 \$14.79		20 \$41.78		32 \$21.05		
TOTAL	\$0.10546			21 \$12.44				
				22 \$13.96				
Rates - Proposed August 1, 2018								
		Mercury Vapor Rate/Mo.		Sodium Vapor Rate/Mo.		Metal Halide Rate/Mo.		
Customer Charge	\$0.00	1 \$13.20		11 \$13.44		23 \$19.79		
		2 \$15.66		12 \$15.13		24 \$21.52		
	<u>All kWh</u>	3 \$17.75		13 \$15.19		25 \$22.32		
Distribution Charge	\$0.00000	4 \$21.13		14 \$19.03		26 \$22.87		
External Delivery Charge	\$0.02389	5 \$41.95		15 \$23.98		27 \$24.69		
Stranded Cost Charge	(\$0.00101)	6 \$18.90		16 \$41.42		28 \$24.73		
Storm Recovery Adj. Factor	\$0.00133	7 \$22.62		17 \$17.51		29 \$32.03		
System Benefits Charge	\$0.00456	8 \$37.48		18 \$20.64		30 \$18.52		
Default Service Charge	<u>\$0.07377</u>	9 \$13.33		19 \$23.45		31 \$19.69		
		10 \$14.79		20 \$41.78		32 \$21.05		
TOTAL	\$0.10254			21 \$12.44				
				22 \$13.96				
	Difference	Mercury Vapor-Difference		Sodium Vapor-Difference		Metal Halide-Difference		
Customer Charge	\$0.00	1 \$0.00		11 \$0.00		23 \$0.00		
		2 \$0.00		12 \$0.00		24 \$0.00		
	<u>All kWh</u>	3 \$0.00		13 \$0.00		25 \$0.00		
Distribution Charge	\$0.00000	4 \$0.00		14 \$0.00		26 \$0.00		
External Delivery Charge	(\$0.00248)	5 \$0.00		15 \$0.00		27 \$0.00		
Stranded Cost Charge	(\$0.00044)	6 \$0.00		16 \$0.00		28 \$0.00		
Storm Recovery Adj. Factor	\$0.00000	7 \$0.00		17 \$0.00		29 \$0.00		
System Benefits Charge	\$0.00000	8 \$0.00		18 \$0.00		30 \$0.00		
Default Service Charge	<u>\$0.00000</u>	9 \$0.00		19 \$0.00		31 \$0.00		
		10 \$0.00		20 \$0.00		32 \$0.00		
TOTAL	(\$0.00292)			21 \$0.00				
				22 \$0.00				

* Luminaire charges based on All-Night Service option.

