

UNITIL ENERGY SYSTEMS, INC.
CALCULATION OF THE STRANDED COST CHARGE
Effective August 1, 2019

Uniform per kWh Charge

1. (Over)/under Recovery - Beginning Balance August 1, 2019	\$213,364	Page 2 of 4
2. Estimated Total Costs (August 2019 - July 2020)	(\$355,232)	Page 2 of 4
3. Estimated Interest (August 2019 - July 2020)	<u>\$5,607</u>	Page 2 of 4
4. Costs to be Recovered (L.1 + L.2 + L.3)	(\$136,261)	
5. Estimated Calendar Month Deliveries in kWh (August 2019 - July 2020) (1)	<u>1,176,895,402</u>	
6. Stranded Cost Charge (\$/kWh) (L.4 / L.5)	(\$0.00012)	

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)	(\$0.00012)
--	--------------------

Class G2 (2)

8. Estimated G2 Demand Revenue (August 2019- July 2020)	(\$32,672)
9. Estimated G2 Deliveries in kW (August 2019 - July 2020)	<u>1,352,603</u>
10. Stranded Cost Charge (\$/kW) (L. 8 / L. 9)	(\$0.02)
11. G2 Energy Revenue (August 2019 - July 2020)	(\$8,234)
12. Estimated G2 Calendar Month Deliveries in kWh (August 2019 - July 2020) (1)	<u>340,886,156</u>
13. Stranded Cost Charge (\$/kWh) (L.11 / L.12)	(\$0.00002)

Class G1 (2)

14. Estimated G1 Demand Revenue (August 2019 - July 2020)	(\$30,756)
15. Estimated G1 Deliveries in kVA (August 2019 - July 2020)	<u>1,073,920</u>
16. Stranded Cost Charge (\$/kVA) (L. 14 / L. 15)	(\$0.03)
17. G1 Energy Revenue (August 2019 - July 2020)	(\$9,641)
18. Estimated G1 Calendar Month Deliveries in kWh (August 2019 - July 2020) (1)	<u>336,638,533</u>
19. Stranded Cost Charge (\$/kWh) (L.17 / L.18)	(\$0.00003)

(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 2019-Jul 2020 Billed kWh	1,177,126,194	Aug 2019-Jul 2020 Billed kWh	340,876,176	Aug 2019-Jul 2020 Billed kWh	336,922,622
- July 2019 Unbilled kWh	(59,235,834)	- July 2019 Unbilled kWh	(16,807,312)	- July 2019 Unbilled kWh	(16,223,887)
+ July 2020 Unbilled kWh	<u>59,005,043</u>	+ July 2020 Unbilled kWh	<u>16,817,292</u>	+ July 2020 Unbilled kWh	<u>15,939,798</u>
Calendar Month Deliveries	1,176,895,402	Calendar Month Deliveries	340,886,156	Calendar Month Deliveries	336,638,533

(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 (Aug 19 - Jul 20)	Current Rates	Revenue under current rates	% of Total	Revenue at Proposed Rates
G2 kW	1,352,603	(\$0.21)	(\$284,047)	80%	(\$32,672)
G2 kWh	340,886,156	(\$0.00021)	<u>(\$71,586)</u>	20%	<u>(\$8,234)</u>
Total			(\$355,633)	100%	(\$40,906)
G1 kVA	1,073,920	(\$0.25)	(\$268,480)	76%	(\$30,756)
G1 kWh	336,638,533	(\$0.00025)	<u>(\$84,160)</u>	24%	<u>(\$9,641)</u>
Total			(\$352,640)	100%	(\$40,397)

		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
		Beginning	Total	Total	Ending	Average	Interes	Number	Computed	Ending Balance
		Balance	Costs	Revenue	Balance	Balance ((a+d)	t Rate	of Days /	Interest	with Interest
					Before	/ 2)		Month		(d + h)
					Interest					
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	Actual	(\$442,556)	(\$47,369)	(\$51,411)	(\$438,514)	(\$440,535)	4.50%	31	(\$1,684)	(\$440,198)
Jun-18	Actual	(\$440,198)	(\$38,045)	(\$55,974)	(\$422,269)	(\$431,233)	4.50%	30	(\$1,595)	(\$423,864)
Jul-18	Actual	(\$423,864)	(\$86,212)	(\$67,929)	(\$442,147)	(\$433,005)	4.75%	31	(\$1,747)	(\$443,894)
Total Aug-17 to Jul-18			(\$767,685)	(\$665,819)					(\$16,029)	
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
		Beginning	Total	Total	Ending	Average	Interes	Number	Computed	Ending Balance
		Balance	Costs	Revenue	Balance	Balance ((a+d)	t Rate	of Days /	Interest	with Interest
					Before	/ 2)		Month		(d + h)
					Interest					
Aug-18	Actual	(\$443,894)	(\$48,231)	(\$108,552)	(\$383,573)	(\$413,733)	4.75%	31	(\$1,669)	(\$385,242)
Sep-18	Actual	(\$385,242)	(\$61,187)	(\$108,226)	(\$338,203)	(\$361,723)	4.75%	30	(\$1,412)	(\$339,615)
Oct-18	Actual	(\$339,615)	(\$68,359)	(\$95,002)	(\$312,972)	(\$326,294)	5.00%	31	(\$1,386)	(\$314,357)
Nov-18	Actual	(\$314,357)	(\$56,911)	(\$95,700)	(\$275,568)	(\$294,963)	5.00%	30	(\$1,212)	(\$276,780)
Dec-18	Actual	(\$276,780)	(\$56,163)	(\$104,160)	(\$228,784)	(\$252,782)	5.00%	31	(\$1,073)	(\$229,857)
Jan-19	Actual	(\$229,857)	(\$224)	(\$109,327)	(\$120,754)	(\$175,306)	5.25%	31	(\$782)	(\$121,536)
Feb-19	Actual	(\$121,536)	(\$45,784)	(\$97,286)	(\$70,034)	(\$95,785)	5.25%	28	(\$386)	(\$70,420)
Mar-19	Actual	(\$70,420)	(\$44,476)	(\$97,750)	(\$17,145)	(\$43,782)	5.25%	31	(\$195)	(\$17,340)
Apr-19	Actual	(\$17,340)	(\$49,781)	(\$87,468)	\$20,347	\$1,503	5.50%	30	\$7	\$20,354
May-19	Estimate	\$20,354	(\$47,711)	(\$95,642)	\$68,284	\$44,319	5.50%	31	\$207	\$68,491
Jun-19	Estimate	\$68,491	(\$47,711)	(\$98,803)	\$119,584	\$94,037	5.50%	30	\$425	\$120,009
Jul-19	Estimate	\$120,009	(\$30,521)	(\$123,100)	\$212,587	\$166,298	5.50%	31	\$777	\$213,364
Total Aug-18 to Jul-19			(\$557,059)	(\$1,221,016)					(\$6,699)	
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
		Beginning	Total	Total	Ending	Average	Interes	Number	Computed	Ending Balance
		Balance	Costs	Revenue	Balance	Balance ((a+d)	t Rate	of Days /	Interest	with Interest
					Before	/ 2)		Month		(d + h)
					Interest					
Aug-19	Estimate	\$213,364	(\$30,521)	(\$12,206)	\$195,050	\$204,207	5.50%	31	\$954	\$196,004
Sep-19	Estimate	\$196,004	(\$30,521)	(\$11,099)	\$176,582	\$186,293	5.50%	30	\$842	\$177,424
Oct-19	Estimate	\$177,424	(\$30,521)	(\$11,055)	\$157,958	\$167,691	5.50%	31	\$783	\$158,742
Nov-19	Estimate	\$158,742	(\$30,589)	(\$10,557)	\$138,709	\$148,725	5.50%	30	\$672	\$139,382
Dec-19	Estimate	\$139,382	(\$30,589)	(\$11,089)	\$119,881	\$129,631	5.50%	31	\$606	\$120,487
Jan-20	Estimate	\$120,487	(\$30,589)	(\$12,627)	\$102,525	\$111,506	5.50%	31	\$519	\$103,044
Feb-20	Estimate	\$103,044	(\$30,589)	(\$11,281)	\$83,737	\$93,390	5.50%	29	\$407	\$84,144
Mar-20	Estimate	\$84,144	(\$30,589)	(\$10,581)	\$64,136	\$74,140	5.50%	31	\$345	\$64,481
Apr-20	Estimate	\$64,481	(\$30,589)	(\$10,134)	\$44,026	\$54,254	5.50%	30	\$245	\$44,271
May-20	Estimate	\$44,271	(\$30,589)	(\$10,024)	\$23,705	\$33,988	5.50%	31	\$158	\$23,864
Jun-20	Estimate	\$23,864	(\$30,589)	(\$11,347)	\$4,621	\$14,243	5.50%	30	\$64	\$4,686
Jul-20	Estimate	\$4,686	(\$18,957)	(\$14,111)	(\$160)	\$2,263	5.50%	31	\$11	(\$150)
Total Aug-19 to Jul-20			(\$355,232)	(\$136,111)					\$5,607	

		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
		Total Billed kWh - all classes except G2 demand and G1	Unbilled Factor	Unbilled kWh (a * b)	Proposed SCC	Unbilled SCC Revenue (c * d)	Total Billed kWh - G2 demand	Unbilled Factor	Unbilled kWh (f * g)	Proposed SCC	Unbilled SCC Revenue (h * i)	Total Billed kWh - G1	Unbilled Factor	Unbilled kWh (k * l)	Proposed SCC	Unbilled SCC Revenue (m * n)	Reversal of prior month unbilled (prior month, e + j + o)	Total Billed SCC Revenue	Total Revenue (e + j + o + p + q)
Aug-17	Actual	47,101,168	40.1%	18,901,769	(\$0.00057)	(\$10,774)	32,806,952	45.0%	14,747,442	(\$0.00011)	(\$1,622)	32,479,046	49.2%	15,991,170	(\$0.00014)	(\$2,239)	\$5,957	(\$40,795)	(\$49,474)
Sep-17	Actual	40,772,086	64.8%	26,413,430	(\$0.00057)	(\$15,056)	29,705,763	58.8%	17,480,331	(\$0.00011)	(\$1,923)	30,878,419	51.4%	15,879,329	(\$0.00014)	(\$2,223)	\$14,635	(\$56,730)	(\$61,297)
Oct-17	Actual	37,952,764	53.6%	20,358,893	(\$0.00057)	(\$11,605)	29,018,147	53.6%	15,566,122	(\$0.00011)	(\$1,712)	31,045,206	53.6%	16,653,491	(\$0.00014)	(\$2,331)	\$19,202	(\$55,179)	(\$51,626)
Nov-17	Actual	34,056,002	61.6%	20,962,194	(\$0.00057)	(\$11,948)	24,999,095	55.9%	13,976,918	(\$0.00011)	(\$1,537)	27,021,133	53.5%	14,468,830	(\$0.00014)	(\$2,026)	\$15,648	(\$49,937)	(\$49,801)
Dec-17	Actual	44,539,006	61.3%	27,302,679	(\$0.00057)	(\$15,563)	27,460,095	54.7%	15,015,731	(\$0.00011)	(\$1,652)	28,973,555	51.2%	14,825,649	(\$0.00014)	(\$2,076)	\$15,512	(\$55,324)	(\$59,102)
Jan-18	Actual	57,336,985	44.4%	25,431,069	(\$0.00057)	(\$14,496)	31,888,068	46.7%	14,900,861	(\$0.00011)	(\$1,639)	29,063,623	48.1%	13,968,492	(\$0.00014)	(\$1,956)	\$19,290	(\$63,951)	(\$62,752)
Feb-18	Actual	45,332,334	42.9%	19,460,605	(\$0.00057)	(\$11,093)	28,310,183	47.1%	13,324,673	(\$0.00011)	(\$1,466)	27,816,557	49.0%	13,640,259	(\$0.00014)	(\$1,910)	\$18,090	(\$56,064)	(\$52,442)
Mar-18	Actual	41,168,274	49.4%	20,317,620	(\$0.00057)	(\$11,581)	27,710,982	48.4%	13,407,978	(\$0.00011)	(\$1,475)	27,664,061	48.0%	13,269,232	(\$0.00014)	(\$1,858)	\$14,468	(\$53,782)	(\$54,227)
Apr-18	Actual	38,113,294	45.3%	17,266,581	(\$0.00057)	(\$9,842)	26,103,985	49.9%	13,020,220	(\$0.00011)	(\$1,432)	26,745,474	51.8%	13,858,352	(\$0.00014)	(\$1,940)	\$14,914	(\$51,484)	(\$49,785)
May-18	Actual	34,349,094	50.3%	17,262,636	(\$0.00057)	(\$9,840)	26,514,184	50.3%	13,325,088	(\$0.00011)	(\$1,466)	28,919,282	50.3%	14,533,805	(\$0.00014)	(\$2,035)	\$13,214	(\$51,285)	(\$51,411)
Jun-18	Actual	38,403,793	49.1%	18,840,707	(\$0.00057)	(\$10,739.20)	29,598,848	45.5%	13,465,408	(\$0.00011)	(\$1,481)	31,345,592	41.7%	13,085,588	(\$0.00014)	(\$1,832)	\$13,340	(\$56,262)	(\$56,974)
Jul-18	Actual	47,513,038	58.3%	27,682,687	(\$0.00057)	(\$15,779)	31,385,269	55.3%	17,360,180	(\$0.00011)	(\$1,910)	31,298,456	51.0%	15,952,047	(\$0.00014)	(\$2,233)	\$14,052	(\$62,059)	(\$67,929)
Total Aug-17 to Jul-18		506,637,838		260,200,869		(\$148,314)	345,501,571		175,590,952		(\$19,315)	353,250,404		176,126,245		(\$24,658)	\$178,322	(\$651,854)	(\$665,819)

		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
		Total Billed kWh - all classes except G2 demand and G1	Unbilled Factor	Unbilled kWh (a * b)	Proposed SCC	Unbilled SCC Revenue (c * d)	Total Billed kWh - G2 demand	Unbilled Factor	Unbilled kWh (f * g)	Proposed SCC	Unbilled SCC Revenue (h * i)	Total Billed kWh - G1	Unbilled Factor	Unbilled kWh (k * l)	Proposed SCC	Unbilled SCC Revenue (m * n)	Reversal of prior month unbilled (prior month, e + j + o)	Total Billed SCC Revenue	Total Revenue (e + j + o + p + q)
Aug-18	Actual	55,179,734	42.5%	23,437,437	(\$0.00101)	(\$23,672)	34,842,998	44.9%	15,644,610	(\$0.00021)	(\$3,285)	33,810,990	48.9%	16,533,152	(\$0.00025)	(\$4,133)	\$19,922	(\$97,383)	(\$108,552)
Sep-18	Actual	47,327,882	40.3%	19,075,860	(\$0.00101)	(\$19,267)	31,457,574	45.8%	14,393,092	(\$0.00021)	(\$3,023)	31,095,868	53.7%	16,689,264	(\$0.00025)	(\$4,172)	\$31,090	(\$112,855)	(\$108,226)
Oct-18	Actual	36,017,909	51.3%	18,490,289	(\$0.00101)	(\$18,675)	27,340,477	51.3%	14,035,610	(\$0.00021)	(\$2,947)	29,080,302	51.3%	14,928,773	(\$0.00025)	(\$3,732)	\$26,461	(\$96,109)	(\$95,002)
Nov-18	Actual	37,374,501	58.5%	21,862,926	(\$0.00101)	(\$22,082)	25,583,071	54.0%	13,810,022	(\$0.00021)	(\$2,900)	25,745,662	52.0%	13,400,046	(\$0.00025)	(\$3,350)	\$25,355	(\$92,723)	(\$95,700)
Dec-18	Actual	46,662,841	48.9%	22,841,095	(\$0.00101)	(\$23,070)	29,491,402	49.1%	14,492,439	(\$0.00021)	(\$3,043)	26,844,281	49.2%	13,215,844	(\$0.00025)	(\$3,304)	\$28,332	(\$103,074)	(\$104,160)
Jan-19	Actual	49,931,703	52.1%	26,000,645	(\$0.00101)	(\$26,281)	29,168,271	49.2%	14,359,218	(\$0.00021)	(\$3,015)	26,979,309	47.7%	12,865,368	(\$0.00025)	(\$3,216)	\$29,417	(\$106,252)	(\$109,327)
Feb-19	Actual	46,036,715	45.7%	21,051,168	(\$0.00101)	(\$21,262)	28,788,209	46.8%	13,470,664	(\$0.00021)	(\$2,829)	26,620,046	47.3%	12,593,260	(\$0.00025)	(\$3,148)	\$32,492	(\$102,540)	(\$97,286)
Mar-19	Actual	42,803,866	47.2%	20,112,432	(\$0.00101)	(\$20,314)	27,981,529	51.1%	14,288,512	(\$0.00021)	(\$3,001)	25,767,182	52.8%	13,607,881	(\$0.00025)	(\$3,402)	\$27,239	(\$98,273)	(\$97,750)
Apr-19	Actual	37,437,025	41.9%	15,678,549	(\$0.00101)	(\$15,835)	26,954,899	46.3%	12,476,440	(\$0.00021)	(\$2,620)	26,251,027	48.1%	12,616,574	(\$0.00025)	(\$3,154)	\$26,716	(\$92,575)	(\$87,468)
May-19	Estimate	34,666,052	48.8%	16,911,302	(\$0.00101)	(\$17,080)	26,475,942	50.4%	13,331,008	(\$0.00021)	(\$2,800)	28,549,126	50.0%	14,274,563	(\$0.00025)	(\$3,569)	\$29,610	(\$93,803)	(\$95,642)
Jun-19	Estimate	34,841,818	66.7%	23,238,771	(\$0.00101)	(\$23,471)	26,556,191	61.7%	16,385,976	(\$0.00021)	(\$3,441)	28,160,365	55.6%	15,644,647	(\$0.00025)	(\$3,911)	\$23,449	(\$91,429)	(\$98,803)
Jul-19	Estimate	48,790,035	53.7%	26,221,046	(\$0.00101)	(\$26,483)	32,769,967	51.3%	16,807,312	(\$0.00021)	(\$3,530)	33,756,152	48.1%	16,223,887	(\$0.00025)	(\$4,050)	\$30,823	(\$119,854)	(\$123,100)
Total Aug-18 to Jul-19		516,870,082		254,921,520		(\$257,471)	347,410,530		173,494,903		(\$36,434)	342,660,310		172,593,259		(\$43,148)	\$322,906	(\$1,206,870)	(\$1,221,016)

		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
		Total Billed kWh - all classes except G2 demand and G1	Unbilled Factor	Unbilled kWh (a * b)	Proposed SCC	Unbilled SCC Revenue (c * d)	Total Billed kWh - G2 demand	Unbilled Factor	Unbilled kWh (f * g)	Proposed SCC	Unbilled SCC Revenue (h * i)	Total Billed kWh - G1	Unbilled Factor	Unbilled kWh (k * l)	Proposed SCC	Unbilled SCC Revenue (m * n)	Reversal of prior month unbilled (prior month, e + j + o)	Total Billed SCC Revenue	Total Revenue (e + j + o + p + q)
Aug-19	Estimate	48,319,594	44.5%	21,495,027	(\$0.00012)	(\$2,579)	31,772,357	47.3%	15,034,187	(\$0.00002)	(\$301)	33,090,850	51.2%	16,948,972	(\$0.00003)	(\$508)	\$34,069	(\$42,886)	(\$12,206)
Sep-19	Estimate	38,165,428	53.6%	20,440,038	(\$0.00012)	(\$2,453)	26,988,914	57.0%	15,372,590	(\$0.00002)	(\$307)	29,139,343	62.5%	18,212,089	(\$0.00003)	(\$546)	\$3,389	(\$11,181)	(\$11,099)
Oct-19	Estimate	38,092,956	51.0%	19,444,612	(\$0.00012)	(\$2,333)	28,429,403	48.5%	13,779,333	(\$0.00002)	(\$276)	30,025,038	48.1%	14,430,638	(\$0.00003)	(\$433)	\$3,307	(\$11,320)	(\$11,055)
Nov-19	Estimate	35,910,824	63.1%	22,661,953	(\$0.00012)	(\$2,719)	24,875,135	59.1%	14,698,765	(\$0.00002)	(\$294)	24,989,097	57.2%	14,302,615	(\$0.00003)	(\$429)	\$3,042	(\$10,156)	(\$10,557)
Dec-19	Estimate	42,869,318	56.9%	24,259,836	(\$0.00012)	(\$2,911)	27,997,603	54.3%	15,202,318	(\$0.00002)	(\$304)	25,384,398	53.0%	13,457,425	(\$0.00003)	(\$404)	\$3,442	(\$10,912)	(\$11,089)
Jan-20	Estimate	52,383,885	47.9%	25,077,032	(\$0.00012)	(\$3,009)	30,627,787	47.0%	14,388,581	(\$0.00002)	(\$288)	27,661,552	46.4%	12,846,563	(\$0.00003)	(\$385)	\$3,619	(\$12,564)	(\$12,627)
Feb-20	Estimate	45,082,708	55.9%	25,212,244	(\$0.00012)	(\$3,025)	27,972,459	57.9%	16,186,623	(\$0.00002)	(\$324)	24,959,144	58.9%	14,708,067	(\$0.00003)	(\$441)	\$3,682	(\$11,173)	(\$11,281)
Mar-20	Estimate	42,065,020	46.5%	19,555,137	(\$0.00012)	(\$2,347)	29,139,603	48.8%	14,209,403	(\$0.00002)	(\$284)	26,843,193	49.8%	13,367,695	(\$0.00003)	(\$401)	\$3,790	(\$11,340)	(\$10,581)
Apr-20	Estimate	38,271,780	43.6%	16,684,734	(\$0.00012)	(\$2,002)	27,205,270	47.1%	12,826,930	(\$0.00002)	(\$257)	25,948,608	48.6%	12,606,611	(\$0.00003)	(\$378)	\$3,032	(\$10,529)	(\$10,134)
May-20	Estimate	31,502,837	62.0%	19,531,994	(\$0.00012)	(\$2,344)	24,022,734	64.0%	15,375,307	(\$0.00002)	(\$308)	25,447,878	63.6%	16,173,540	(\$0.00003)	(\$485)	\$2,637	(\$9,524)	(\$10,024)
Jun-20	Estimate	38,023,705	56.4%	21,432,959	(\$0.00012)	(\$2,572)	29,059,118	52.1%	15,131,798	(\$0.00002)	(\$303)	30,268,458	46.9%	14,188,340	(\$0.00003)	(\$426)	\$3,137	(\$11,183)	(\$11,347)
Jul-20	Estimate	48,839,343	53.8%	26,264,566	(\$0.00012)	(\$3,152)	32,785,793	51.3%	16,817,292	(\$0.00002)	(\$336)	33,165,064	48.1%	15,939,798	(\$0.00003)	(\$478)	\$3,300	(\$13,445)	(\$14,111)
Total Aug-19 to Jul-20		499,327,396		262,060,132		(\$31,447)	340,876,176		179,023,127		(\$3,580)	336,922,622		177,182,353		(\$5,315)	\$70,446	(\$166,214)	(\$136,111)

(1) Actual Per billing system.

(2) Detail of Unbilled Factors shown on page 4.

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 l, Page 3)

00036

	Billed kWh	Direct Estimate of Unbilled kWh	Unbilled kWh / Billed kWh		Billed kWh	Direct Estimate of Unbilled kWh	Unbilled kWh / Billed kWh		Billed kWh	Direct Estimate of Unbilled kWh	Unbilled kWh / Billed kWh
Aug-17	46,772,877	18,770,025	40.1%	Aug-17	33,135,243	14,895,016	45.0%	Aug-17	32,479,046	15,991,170	49.2%
Sep-17	40,502,591	26,238,842	64.8%	Sep-17	29,975,258	17,638,915	58.8%	Sep-17	30,878,419	15,879,329	51.4%
Oct-17	37,665,837	20,204,977	53.6%	Oct-17	29,305,074	15,720,037	53.6%	Oct-17	31,045,206	16,653,491	53.6%
Nov-17	33,754,111	20,776,373	61.6%	Nov-17	25,300,986	14,145,704	55.9%	Nov-17	27,021,133	14,468,830	53.5%
Dec-17	43,952,279	26,943,012	61.3%	Dec-17	28,046,822	15,336,565	54.7%	Dec-17	28,973,555	14,825,649	51.2%
Jan-18	56,315,430	24,977,972	44.4%	Jan-18	32,909,623	15,378,220	46.7%	Jan-18	29,063,623	13,968,492	48.1%
Feb-18	44,512,520	19,108,670	42.9%	Feb-18	29,129,997	13,710,532	47.1%	Feb-18	27,816,557	13,640,259	49.0%
Mar-18	40,547,117	20,011,062	49.4%	Mar-18	28,332,139	13,708,525	48.4%	Mar-18	27,664,061	13,269,232	48.0%
Apr-18	37,550,806	17,011,755	45.3%	Apr-18	26,666,473	13,300,780	49.9%	Apr-18	26,745,474	13,858,352	51.8%
May-18	33,978,536	17,076,407	50.3%	May-18	26,884,742	13,511,318	50.3%	May-18	28,919,282	14,533,805	50.3%
Jun-18	38,123,983	18,703,433	49.1%	Jun-18	29,878,658	13,592,702	45.5%	Jun-18	31,345,592	13,085,588	41.7%
Jul-18	47,163,202	27,478,861	58.3%	Jul-18	31,735,105	17,553,685	55.3%	Jul-18	31,298,456	15,952,047	51.0%
Aug-18	54,774,513	23,265,321	42.5%	Aug-18	35,248,219	15,826,556	44.9%	Aug-18	33,810,990	16,533,152	48.9%
Sep-18	46,973,380	18,932,975	40.3%	Sep-18	31,812,076	14,555,291	45.8%	Sep-18	31,095,868	16,689,264	53.7%
Oct-18	35,756,404	18,356,042	51.3%	Oct-18	27,601,982	14,169,857	51.3%	Oct-18	29,080,302	14,928,773	51.3%
Nov-18	36,999,730	21,643,696	58.5%	Nov-18	25,957,842	14,012,328	54.0%	Nov-18	25,745,662	13,400,046	52.0%
Dec-18	45,958,446	22,460,299	48.9%	Dec-18	30,195,797	14,838,587	49.1%	Dec-18	26,844,281	13,215,844	49.2%
Jan-19	49,238,737	25,639,801	52.1%	Jan-19	29,861,237	14,700,357	49.2%	Jan-19	26,979,309	12,865,368	47.7%
Feb-19	45,225,691	20,680,312	45.7%	Feb-19	29,599,233	13,850,160	46.8%	Feb-19	26,620,046	12,593,260	47.3%
Mar-19	41,910,688	19,785,197	47.2%	Mar-19	28,674,707	14,642,477	51.1%	Mar-19	25,767,182	13,607,881	52.8%
Apr-19	36,929,587	15,466,035	41.9%	Apr-19	27,462,337	12,711,315	46.3%	Apr-19	26,251,027	12,616,574	48.1%

UNITIL ENERGY SYSTEMS. INC.
CALCULATION OF THE EXTERNAL DELIVERY CHARGE
Effective August 1, 2019

	<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, 2019	(\$151,031)	\$607,190	(\$758,221)	Page 4 of 6
2. Estimated Total Costs (August 2019 - July 2020)	\$29,592,044	\$30,092,000	(\$499,956)	Page 4 of 6
3. Estimated Interest (August 2019 - July 2020)	<u>\$10,350</u>	<u>\$20,258</u>	<u>(\$9,909)</u>	Page 4 of 6
4. Costs to be Recovered (L.1 + L.2 + L.3)	\$29,451,363	\$30,719,449	(\$1,268,086)	L.1 + L.2 + L.3
5. Estimated Calendar Month Deliveries in kWh (August 2019 - July 2020) (1)	<u>1,176,895,402</u>	<u>1,176,895,402</u>	<u>1,176,895,402</u>	
6. External Delivery Charge (\$/kWh) (L. 4 / L. 5)	\$0.02502	\$0.02610	(\$0.00108)	

(1) Schedule LSM-2, page 5.

August 2019 - July 2020 Billed kWh	1,177,126,194
- July 2019 Unbilled kWh	(59,235,834)
+ July 2020 Unbilled kWh	<u>59,005,043</u>
Calendar Month Deliveries	1,176,895,402

00037

		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
		Beginning	Total Costs	Total Revenue	Ending	Average	Interest	Number of	Computed	Ending Balance
Transmission Costs Only		Balance			Balance	Monthly	Rate	Days /	Interest	with Interest
					Before Interest	Balance		Month		(d + h)
					(a + b - c)	((a+d) / 2)				
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	Actual	\$618,320	\$2,146,819	\$2,342,089	\$423,050	\$520,685	4.50%	31	\$1,990	\$425,040
Jun-18	Actual	\$425,040	\$2,545,347	\$2,571,651	\$398,736	\$411,888	4.50%	30	\$1,523	\$400,260
Jul-18	Actual	\$400,260	<u>\$3,864,123</u>	<u>\$3,248,136</u>	\$1,016,246	\$708,253	4.75%	31	<u>\$2,857</u>	\$1,019,103
Total Aug-17 to Jul-18			\$29,706,992	\$31,205,929					\$64,521	

		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
		Beginning	Total Costs	Total Revenue	Ending	Average	Interest	Number of	Computed	Ending Balance
All Remaining EDC Costs (Non-Transmission)		Balance			Balance	Monthly	Rate	Days /	Interest	with Interest
					Before Interest	Balance		Month		(d + h)
					(a + b - c)	((a+d) / 2)				
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	Actual	(\$820,939)(2)	\$117,551	\$49,894	(\$753,282)	(\$787,111)	4.50%	31	(\$1,571)(3)	(\$754,853)
Jun-18	Actual	(\$754,853)	\$84,682	\$54,786	(\$724,957)	(\$739,905)	4.50%	30	(\$2,737)	(\$727,694)
Jul-18	Actual	(\$727,694)	<u>(\$195,316)</u>	<u>\$69,199</u>	(\$992,209)	(\$859,951)	4.75%	31	<u>(\$3,469)</u>	(\$995,678)
Total Aug-17 to Jul-18			\$16,483	\$664,748					\$3,320	

		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
		Beginning	Total Costs	Total Revenue	Ending	Average	Interest	Number of	Computed	Ending Balance
Total External Delivery Charge		Balance			Balance	Monthly	Rate	Days /	Interest	with Interest
					Before Interest	Balance		Month		(d + h)
					(a + b - c)	((a+d) / 2)				
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	Actual	(\$202,619)(2)	\$2,264,370	\$2,391,983	(\$330,233)	(\$266,426)	4.50%	31	\$419 (3)	(\$329,814)
Jun-18	Actual	(\$329,814)	\$2,630,029	\$2,626,437	(\$326,221)	(\$328,017)	4.50%	30	(\$1,213)	(\$327,434)
Jul-18	Actual	(\$327,434)	<u>\$3,668,806</u>	<u>\$3,317,335</u>	\$24,038	(\$151,698)	4.75%	31	<u>(\$612)</u>	\$23,426
Total Aug-17 to Jul-18			\$29,723,475	\$31,870,677					\$67,841	

(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.
 (3) Includes \$1,437.16 to adjust interest for trueup made to working capital.

		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
		Beginning	Total Costs	Total Revenue	Ending	Average	Interest	Number of	Computed	Ending Balance
Transmission Costs Only		Balance			Balance	Monthly	Rate	Days /	Interest	with Interest
					Before Interest	Balance		Month		(d + h)
					(a + b - c)	((a+d) / 2)				
Aug-18	Actual	\$1,019,103	\$3,209,061	\$2,947,195	\$1,280,969	\$1,150,036	4.75%	31	\$4,640	\$1,285,608
Sep-18	Actual	\$1,285,608	\$2,673,993	\$2,608,522	\$1,351,080	\$1,318,344	4.75%	30	\$5,147	\$1,356,226
Oct-18	Actual	\$1,356,226	\$2,421,207	\$2,240,965	\$1,536,469	\$1,446,348	5.00%	31	\$6,142	\$1,542,611
Nov-18	Actual	\$1,542,611	\$2,077,001	\$2,255,729	\$1,363,882	\$1,453,247	5.00%	30	\$5,972	\$1,369,855
Dec-18	Actual	\$1,369,855	\$2,156,063	\$2,610,335	\$915,583	\$1,142,719	5.00%	31	\$4,853	\$920,435
Jan-19	Actual	\$920,435	\$2,402,743	\$2,716,131	\$607,048	\$763,742	5.25%	31	\$3,405	\$610,453
Feb-19	Actual	\$610,453	\$2,338,620	\$2,382,183	\$566,890	\$588,672	5.25%	28	\$2,371	\$569,261
Mar-19	Actual	\$569,261	\$2,260,609	\$2,429,668	\$400,203	\$484,732	5.25%	31	\$2,161	\$402,364
Apr-19	Actual	\$402,364	\$2,097,778	\$2,083,383	\$416,759	\$409,562	5.50%	30	\$1,851	\$418,611
May-19	Estimate	\$418,611	\$2,354,855	\$2,333,695	\$439,770	\$429,190	5.50%	31	\$2,005	\$441,775
Jun-19	Estimate	\$441,775	\$2,544,091	\$2,504,878	\$480,987	\$461,381	5.50%	30	\$2,086	\$483,073
Jul-19	Estimate	\$483,073	<u>\$3,101,932</u>	<u>\$2,980,355</u>	\$604,650	\$543,861	5.50%	31	<u>\$2,541</u>	\$607,190
Total Aug-18 to Jul-19			\$29,637,953	\$30,093,039					\$43,174	

		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
		Beginning	Total Costs	Total Revenue	Ending	Average	Interest	Number of	Computed	Ending Balance
All Remaining EDC Costs (Non-Transmission)		Balance			Balance	Monthly	Rate	Days /	Interest	with Interest
					Before Interest	Balance		Month		(d + h)
					(a + b - c)	((a+d) / 2)				
Aug-18	Actual	(\$932,008)(1)	\$192,957	(\$128,620)	(\$610,431)	(\$771,219)	4.75%	31	(\$3,111)	(\$613,542)
Sep-18	Actual	(\$613,542)	(\$294,236)	(\$113,846)	(\$793,932)	(\$703,737)	4.75%	30	(\$2,747)	(\$796,679)
Oct-18	Actual	(\$796,679)	\$45,458	(\$97,805)	(\$653,416)	(\$725,048)	5.00%	31	(\$3,079)	(\$656,495)
Nov-18	Actual	(\$656,495)	\$52,266	(\$98,447)	(\$505,783)	(\$581,139)	5.00%	30	(\$2,388)	(\$508,171)
Dec-18	Actual	(\$508,171)	\$59,806	(\$113,917)	(\$334,447)	(\$421,309)	5.00%	31	(\$1,789)	(\$336,236)
Jan-19	Actual	(\$336,236)	(\$324,598)	(\$118,539)	(\$542,296)	(\$439,266)	5.25%	31	(\$1,959)	(\$544,254)
Feb-19	Actual	(\$544,254)	\$46,866	(\$103,971)	(\$393,418)	(\$468,836)	5.25%	28	(\$1,888)	(\$395,306)
Mar-19	Actual	(\$395,306)	\$53,538	(\$106,055)	(\$235,714)	(\$315,510)	5.25%	31	(\$1,407)	(\$237,120)
Apr-19	Actual	(\$237,120)	(\$285,515)	(\$90,949)	(\$431,686)	(\$334,403)	5.50%	30	(\$1,512)	(\$433,198)
May-19	Estimate	(\$920,455)(2)	\$54,602	(\$101,831)	(\$764,022)	(\$842,238)	5.50%	31	(\$3,934)	(\$767,956)
Jun-19	Estimate	(\$767,956)	\$56,477	(\$109,300)	(\$602,179)	(\$685,068)	5.50%	30	(\$3,097)	(\$605,276)
Jul-19	Estimate	(\$605,276)	<u>(\$279,815)</u>	<u>(\$130,048)</u>	(\$755,044)	(\$680,160)	5.50%	31	<u>(\$3,177)</u>	(\$758,221)
Total Aug-18 to Jul-19			(\$622,195)	(\$1,313,327)					(\$30,089)	

		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
		Beginning	Total Costs	Total Revenue	Ending	Average	Interest	Number of	Computed	Ending Balance
Total External Delivery Charge		Balance			Balance	Monthly	Rate	Days /	Interest	with Interest
					Before Interest	Balance		Month		(d + h)
					(a + b - c)	((a+d) / 2)				
Aug-18	Actual	\$87,096 (1)	\$3,402,017	\$2,818,575	\$670,538	\$378,817	4.75%	31	\$1,528	\$672,066
Sep-18	Actual	\$672,066	\$2,379,758	\$2,494,676	\$557,148	\$614,607	4.75%	30	\$2,399	\$559,547
Oct-18	Actual	\$559,547	\$2,466,665	\$2,143,159	\$883,053	\$721,300	5.00%	31	\$3,063	\$886,116
Nov-18	Actual	\$886,116	\$2,129,266	\$2,157,283	\$858,100	\$872,108	5.00%	30	\$3,584	\$861,684
Dec-18	Actual	\$861,684	\$2,215,870	\$2,496,418	\$581,136	\$721,410	5.00%	31	\$3,064	\$584,199
Jan-19	Actual	\$584,199	\$2,078,145	\$2,597,592	\$64,752	\$324,476	5.25%	31	\$1,447	\$66,199
Feb-19	Actual	\$66,199	\$2,385,486	\$2,278,212	\$173,473	\$119,836	5.25%	28	\$483	\$173,955
Mar-19	Actual	\$173,955	\$2,314,147	\$2,323,613	\$164,489	\$169,222	5.25%	31	\$755	\$165,244
Apr-19	Actual	\$165,244	\$1,812,263	\$1,992,433	(\$14,927)	\$75,158	5.50%	30	\$340	(\$14,587)
May-19	Estimate	(\$501,844)(2)	\$2,409,457	\$2,231,865	(\$324,252)	(\$413,048)	5.50%	31	(\$1,929)	(\$326,181)
Jun-19	Estimate	(\$326,181)	\$2,600,568	\$2,395,578	(\$121,192)	(\$223,687)	5.50%	30	(\$1,011)	(\$122,203)
Jul-19	Estimate	(\$122,203)	<u>\$2,822,116</u>	<u>\$2,850,308</u>	(\$150,394)	(\$136,299)	5.50%	31	<u>(\$637)</u>	(\$151,031)
Total Aug-18 to Jul-19			\$29,015,758	\$28,779,712					\$13,085	

(1) In accordance with DE 18-096, balances associated with Hurricane Sandy and Hurricane Irene/Snowtober, totaling \$63,670, have been moved for final reconciliation through the External Delivery Charge.

(2) Estimate includes VMP/REP reconciliation of (\$487,257), as filed in DE 19-042 on February 28, 2019.

		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
		Beginning	Total Costs	Total Revenue	Ending	Average	Interest	Number of	Computed	Ending Balance
Transmission Costs Only		Balance			Balance	Monthly	Rate	Days /	Interest	with Interest
					Before Interest	Balance		Month		(d + h)
					(a + b - c)	((a+d) / 2)				
Aug-19	Estimate	\$607,190	\$3,038,670	\$2,804,276	\$841,585	\$724,387	5.50%	31	\$3,384	\$844,968
Sep-19	Estimate	\$844,968	\$2,692,689	\$2,475,339	\$1,062,318	\$953,643	5.50%	30	\$4,311	\$1,066,629
Oct-19	Estimate	\$1,066,629	\$2,129,495	\$2,352,747	\$843,377	\$955,003	5.50%	31	\$4,461	\$847,838
Nov-19	Estimate	\$847,838	\$2,244,933	\$2,343,215	\$749,555	\$798,697	5.50%	30	\$3,611	\$753,166
Dec-19	Estimate	\$753,166	\$2,489,730	\$2,539,878	\$703,018	\$728,092	5.50%	31	\$3,401	\$706,419
Jan-20	Estimate	\$706,419	\$2,506,122	\$2,872,954	\$339,588	\$523,003	5.50%	31	\$2,436	\$342,024
Feb-20	Estimate	\$342,024	\$2,313,552	\$2,657,652	(\$2,076)	\$169,974	5.50%	29	\$741	(\$1,335)
Mar-20	Estimate	(\$1,335)	\$2,255,966	\$2,324,872	(\$70,241)	(\$35,788)	5.50%	31	(\$167)	(\$70,408)
Apr-20	Estimate	(\$70,408)	\$2,065,235	\$2,255,507	(\$260,680)	(\$165,544)	5.50%	30	(\$746)	(\$261,426)
May-20	Estimate	(\$261,426)	\$2,372,616	\$2,347,071	(\$235,881)	(\$248,654)	5.50%	31	(\$1,158)	(\$237,040)
Jun-20	Estimate	(\$237,040)	\$2,880,806	\$2,531,393	\$112,373	(\$62,333)	5.50%	30	(\$281)	\$112,092
Jul-20	Estimate	\$112,092	<u>\$3,102,185</u>	<u>\$3,212,065</u>	\$2,213	\$57,153	5.50%	31	<u>\$266</u>	\$2,479
Total Aug-19 to Jul-20			\$30,092,000	\$30,716,970					\$20,258	

		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
		Beginning	Total Costs	Total Revenue	Ending	Average	Interest	Number of	Computed	Ending Balance
All Remaining EDC Costs (Non-Transmission)		Balance			Balance	Monthly	Rate	Days /	Interest	with Interest
					Before Interest	Balance		Month		(d + h)
					(a + b - c)	((a+d) / 2)				
Aug-19	Estimate	(\$758,221)	\$268,803	(\$116,039)	(\$373,379)	(\$565,800)	5.50%	31	(\$2,643)	(\$376,022)
Sep-19	Estimate	(\$376,022)	\$50,795	(\$102,428)	(\$222,799)	(\$299,411)	5.50%	30	(\$1,354)	(\$224,153)
Oct-19	Estimate	(\$224,153)	(\$287,232)	(\$97,355)	(\$414,030)	(\$319,091)	5.50%	31	(\$1,491)	(\$415,520)
Nov-19	Estimate	(\$415,520)	\$50,795	(\$96,961)	(\$267,764)	(\$341,642)	5.50%	30	(\$1,544)	(\$269,309)
Dec-19	Estimate	(\$269,309)	\$55,795	(\$105,098)	(\$108,415)	(\$188,862)	5.50%	31	(\$882)	(\$109,297)
Jan-20	Estimate	(\$109,297)	(\$287,232)	(\$118,881)	(\$277,648)	(\$193,473)	5.50%	31	(\$901)	(\$278,550)
Feb-20	Estimate	(\$278,550)	\$55,897	(\$109,972)	(\$112,681)	(\$195,615)	5.50%	29	(\$852)	(\$113,533)
Mar-20	Estimate	(\$113,533)	\$50,795	(\$96,202)	\$33,464	(\$40,035)	5.50%	31	(\$187)	\$33,277
Apr-20	Estimate	\$33,277	(\$287,232)	(\$93,331)	(\$160,623)	(\$63,673)	5.50%	30	(\$287)	(\$160,910)
May-20	Estimate	(\$160,910)	\$50,795	(\$97,120)	(\$12,995)	(\$86,953)	5.50%	31	(\$405)	(\$13,400)
Jun-20	Estimate	(\$13,400)	\$52,795	(\$104,747)	\$144,143	\$65,371	5.50%	30	\$295	\$144,437
Jul-20	Estimate	\$144,437	<u>(\$274,732)</u>	<u>(\$132,913)</u>	\$2,618	\$73,528	5.50%	31	<u>\$343</u>	\$2,961
Total Aug-19 to Jul-20			(\$499,956)	(\$1,271,047)					(\$9,909)	

		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
		Beginning	Total Costs	Total Revenue	Ending	Average	Interest	Number of	Computed	Ending Balance
Total External Delivery Charge		Balance			Balance	Monthly	Rate	Days /	Interest	with Interest
					Before Interest	Balance		Month		(d + h)
					(a + b - c)	((a+d) / 2)				
Aug-19	Estimate	(\$151,031)	\$3,307,473	\$2,688,237	\$468,205	\$158,587	5.50%	31	\$741	\$468,946
Sep-19	Estimate	\$468,946	\$2,743,485	\$2,372,911	\$839,519	\$654,233	5.50%	30	\$2,957	\$842,477
Oct-19	Estimate	\$842,477	\$1,842,263	\$2,255,392	\$429,347	\$635,912	5.50%	31	\$2,970	\$432,318
Nov-19	Estimate	\$432,318	\$2,295,728	\$2,246,255	\$481,791	\$457,055	5.50%	30	\$2,066	\$483,857
Dec-19	Estimate	\$483,857	\$2,545,526	\$2,434,780	\$594,603	\$539,230	5.50%	31	\$2,519	\$597,122
Jan-20	Estimate	\$597,122	\$2,218,890	\$2,754,073	\$61,939	\$329,531	5.50%	31	\$1,535	\$63,474
Feb-20	Estimate	\$63,474	\$2,369,449	\$2,547,680	(\$114,756)	(\$25,641)	5.50%	29	(\$112)	(\$114,868)
Mar-20	Estimate	(\$114,868)	\$2,306,761	\$2,228,671	(\$36,777)	(\$75,822)	5.50%	31	(\$353)	(\$37,130)
Apr-20	Estimate	(\$37,130)	\$1,778,003	\$2,162,176	(\$421,303)	(\$229,217)	5.50%	30	(\$1,033)	(\$422,337)
May-20	Estimate	(\$422,337)	\$2,423,411	\$2,249,951	(\$248,876)	(\$335,606)	5.50%	31	(\$1,563)	(\$250,440)
Jun-20	Estimate	(\$250,440)	\$2,933,602	\$2,426,646	\$256,516	\$3,038	5.50%	30	\$14	\$256,530
Jul-20	Estimate	\$256,530	<u>\$2,827,453</u>	<u>\$3,079,152</u>	\$4,831	\$130,680	5.50%	31	<u>\$609</u>	\$5,440
Total Aug-19 to Jul-20			\$29,592,044	\$29,445,923					\$10,350	

		(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 (4)
Aug-17	Actual	112,387,166	44.2%	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	59.0%	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	53.6%	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	57.4%	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	56.6%	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	118,268,676	45.9%	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	45.8%	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	48.7%	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	48.6%	44,170,887	\$0.02637	\$1,164,786	(\$1,239,095)	\$2,398,353	\$2,324,044	\$2,275,571	\$48,473
May-18	Actual	89,782,560	50.3%	45,121,530	\$0.02637	\$1,189,855	(\$1,164,786)	\$2,366,915	\$2,391,983	\$2,342,089	\$49,894
Jun-18	Actual	99,348,233	45.7%	45,381,724	\$0.02637	\$1,196,716	(\$1,189,855)	\$2,619,575	\$2,626,437	\$2,571,651	\$54,786
Jul-18	Actual	<u>110,196,763</u>	55.3%	60,984,593	\$0.02637	<u>\$1,608,164</u>	<u>(\$1,196,716)</u>	<u>\$2,905,887</u>	<u>\$3,317,335</u>	<u>\$3,248,136</u>	<u>\$69,199</u>
Total Aug-17 to Jul-18		1,205,389,813		611,917,236		\$16,136,258	(\$15,768,201)	\$31,502,621	\$31,870,677	\$31,205,929	\$664,748

		(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 (1)	Total Revenue (e + f + g)	EDC Revenue Allocated to Transmission Only (3)	EDC Revenue Allocated to Non-Transmission (4)
Aug-18	Actual	123,833,722	44.9%	55,625,028	\$0.02389	\$1,328,882	(\$1,608,164)	\$3,097,857	\$2,818,575	\$2,947,195	(\$128,620)
Sep-18	Actual	109,881,324	45.7%	50,177,530	\$0.02389	\$1,198,741	(\$1,328,882)	\$2,624,817	\$2,494,676	\$2,608,522	(\$113,846)
Oct-18	Actual	92,438,688	51.3%	47,454,672	\$0.02389	\$1,133,692	(\$1,198,741)	\$2,208,208	\$2,143,159	\$2,240,965	(\$97,805)
Nov-18	Actual	88,703,234	55.3%	49,056,070	\$0.02389	\$1,171,950	(\$1,133,692)	\$2,119,025	\$2,157,283	\$2,255,729	(\$98,447)
Dec-18	Actual	102,998,524	49.1%	50,550,731	\$0.02389	\$1,207,657	(\$1,171,950)	\$2,460,710	\$2,496,418	\$2,610,335	(\$113,917)
Jan-19	Actual	106,079,283	50.2%	53,205,526	\$0.02389	\$1,271,080	(\$1,207,657)	\$2,534,169	\$2,597,592	\$2,716,131	(\$118,539)
Feb-19	Actual	101,444,970	46.5%	47,123,732	\$0.02389	\$1,125,786	(\$1,271,080)	\$2,423,506	\$2,278,212	\$2,382,183	(\$103,971)
Mar-19	Actual	96,352,577	49.9%	48,035,555	\$0.02389	\$1,147,569	(\$1,125,786)	\$2,301,830	\$2,323,613	\$2,429,668	(\$106,055)
Apr-19	Actual	90,642,951	45.0%	40,793,923	\$0.02389	\$974,567	(\$1,147,569)	\$2,165,436	\$1,992,433	\$2,083,383	(\$90,949)
May-19	Estimate	89,691,121	49.6%	44,525,345	\$0.02389	\$1,063,710	(\$974,567)	\$2,142,721	\$2,231,865	\$2,333,695	(\$101,831)
Jun-19	Estimate	89,558,374	61.7%	55,242,324	\$0.02389	\$1,319,739	(\$1,063,710)	\$2,139,550	\$2,395,578	\$2,504,878	(\$109,300)
Jul-19	Estimate	<u>115,316,153</u>	51.4%	<u>59,235,834</u>	\$0.02389	<u>\$1,415,144</u>	<u>(\$1,319,739)</u>	<u>\$2,754,903</u>	<u>\$2,850,308</u>	<u>\$2,980,355</u>	<u>(\$130,048)</u>
Total Aug-18 to Jul-19		1,206,940,921		601,026,270		\$14,358,518	(\$14,551,537)	\$28,972,732	\$28,779,712	\$30,093,039	(\$1,313,327)

		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
		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)	EDC Revenue Allocated to Transmission Only (3)	EDC Revenue Allocated to Non-Transmission (4)
Aug-19	Estimate	113,182,801	47.3%	53,496,558	\$0.02502	\$1,338,484	(\$1,415,144)	\$2,764,897	\$2,688,237	\$2,804,276	(\$116,039)
Sep-19	Estimate	94,293,685	57.3%	54,043,459	\$0.02502	\$1,352,167	(\$1,338,484)	\$2,359,228	\$2,372,911	\$2,475,339	(\$102,428)
Oct-19	Estimate	96,547,396	49.3%	47,639,634	\$0.02502	\$1,191,944	(\$1,352,167)	\$2,415,616	\$2,255,392	\$2,352,747	(\$97,355)
Nov-19	Estimate	85,775,055	60.2%	51,642,945	\$0.02502	\$1,292,106	(\$1,191,944)	\$2,146,092	\$2,246,255	\$2,343,215	(\$96,961)
Dec-19	Estimate	96,051,319	55.1%	52,904,970	\$0.02502	\$1,323,682	(\$1,292,106)	\$2,403,204	\$2,434,780	\$2,539,878	(\$105,098)
Jan-20	Estimate	110,673,223	47.3%	52,306,596	\$0.02502	\$1,308,711	(\$1,323,682)	\$2,769,044	\$2,754,073	\$2,872,954	(\$118,881)
Feb-20	Estimate	98,014,312	57.3%	56,118,019	\$0.02502	\$1,404,073	(\$1,308,711)	\$2,452,318	\$2,547,680	\$2,657,652	(\$109,972)
Mar-20	Estimate	98,047,815	48.1%	47,145,765	\$0.02502	\$1,179,587	(\$1,404,073)	\$2,453,156	\$2,228,671	\$2,324,872	(\$96,202)
Apr-20	Estimate	91,425,658	46.1%	42,138,003	\$0.02502	\$1,054,293	(\$1,179,587)	\$2,287,470	\$2,162,176	\$2,255,507	(\$93,331)
May-20	Estimate	80,973,448	63.1%	51,090,658	\$0.02502	\$1,278,288	(\$1,054,293)	\$2,025,956	\$2,249,951	\$2,347,071	(\$97,120)
Jun-20	Estimate	97,351,281	52.1%	50,727,626	\$0.02502	\$1,269,205	(\$1,278,288)	\$2,435,729	\$2,426,646	\$2,531,393	(\$104,747)
Jul-20	Estimate	<u>114,790,200</u>	51.4%	<u>59,005,043</u>	\$0.02502	<u>\$1,476,306</u>	<u>(\$1,269,205)</u>	<u>\$2,872,051</u>	<u>\$3,079,152</u>	<u>\$3,212,065</u>	<u>(\$132,913)</u>
Total Aug-19 to Jul-20		1,177,126,194		618,259,276		\$15,468,847	(\$15,407,685)	\$29,384,761	\$29,445,923	\$30,716,970	(\$1,271,047)

(1) Actual per billing system
(2) Detail of Unbilled Factors used in actuals for all classes shown on page 6.
(3) Allocation based on the ratio of the Transmission Only factor to the total EDC rate, multiplied by total net revenue.
(4) Allocation based on the ratio of the Non-Transmission factor to the total EDC rate, multiplied by total gross revenue (revenue prior to any reversals under alternative net metering).

00041

	Billed kWh	Direct Estimate of Unbilled kWh	Unbilled kWh / Billed kWh
Aug-17	112,387,166	49,653,813	44.2%
Sep-17	101,356,268	59,757,087	59.0%
Oct-17	98,016,117	52,578,506	53.6%
Nov-17	86,076,230	49,390,908	57.4%
Dec-17	100,972,656	57,105,226	56.6%
Jan-18	118,288,676	54,324,683	45.9%
Feb-18	101,459,074	46,459,461	45.8%
Mar-18	96,543,317	46,988,820	48.7%
Apr-18	90,962,753	44,170,887	48.6%
May-18	89,782,560	45,121,530	50.3%
Jun-18	99,348,233	45,381,724	45.7%
Jul-18	110,196,763	60,984,593	55.3%
Aug-18	123,833,722	55,625,028	44.9%
Sep-18	109,881,324	50,177,530	45.7%
Oct-18	92,438,688	47,454,672	51.3%
Nov-18	88,703,234	49,056,070	55.3%
Dec-18	102,998,524	50,550,731	49.1%
Jan-19	106,079,283	53,205,526	50.2%
Feb-19	101,444,970	47,123,732	46.5%
Mar-19	96,352,577	48,035,555	49.9%
Apr-19	90,642,951	40,793,923	45.0%

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

Twenty-First~~Twentieth~~ Revised Page 65
Superseding Twentieth~~Issued in Lieu of Nineteenth~~ Revised Page 65

CALCULATION OF THE STRANDED COST CHARGE

Uniform per kWh Charge

1. (Over)/under Recovery - Beginning Balance August 1, 2019 8	\$213,364	(\$428,979)
2. Estimated Total Costs (August 2019 8 - July 2020 19)	(\$355,232)	(\$769,892)
3. Estimated Interest (August 2019 8 - July 2020 19)	<u>\$5,607</u>	<u>(\$10,579)</u>
4. Costs to be Recovered (L.1 + L.2 + L.3)	(\$136,261)	(\$1,209,450)
5. Estimated Calendar Month Deliveries in kWh (August 2019 8 - July 2020 19)	<u>1,176,895.402</u>	<u>1,201,046.348</u>
6. Stranded Cost Charge (\$/kWh) (L.4 / L.5)	(\$0.00012)	(\$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)	(\$0.00012)	(\$0.00101)
<u>Class G2 (1)</u>		
8. Estimated G2 Demand Revenue (August 2019 8 - July 2020 19)	(\$32,672)	(\$275,318)
9. Estimated G2 Deliveries in kW (August 2019 8 - July 2020 19)	<u>1,352.603</u>	<u>1,335.793</u>
10. Stranded Cost Charge (\$/kW) (L. 8 / L. 9)	(\$0.02)	(\$0.21)
11. G2 Energy Revenue (August 2019 8 - July 2020 19)	(\$8,234)	(\$70,588)
12. Estimated G2 Calendar Month Deliveries in kWh (August 2019 8 - July 2020 19)	<u>340,886.156</u>	<u>342,481.395</u>
13. Stranded Cost Charge (\$/kWh) (L.11 / L.12)	(\$0.00002)	(\$0.00021)
<u>Class G1 (1)</u>		
14. Estimated G1 Demand Revenue (August 2019 8 - July 2020 19)	(\$30,756)	(\$261,862)
15. Estimated G1 Deliveries in kVA (August 2019 8 - July 2020 19)	<u>1,073.920</u>	<u>1,058.401</u>
16. Stranded Cost Charge (\$/kVA) (L. 14 / L. 15)	(\$0.03)	(\$0.25)
17. G1 Energy Revenue (August 2019 8 - July 2020 19)	(\$9,641)	(\$84,958)
18. Estimated G1 Calendar Month Deliveries in kWh (August 2019 8 - July 2020 19)	<u>336,638.533</u>	<u>343,385.757</u>
19. Stranded Cost Charge (\$/kWh) (L.17 / L.18)	(\$0.00003)	(\$0.00025)

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

Authorized by NHPUC Order No. ~~26,160~~ in Case No. DE ~~18-096~~, dated ~~July 20, 2018~~

Issued: June 14, 2019~~July 31, 2018~~
Effective: August 1, 2019~~8~~

Issued By: Christine Vaughan~~Mark H. Collins~~
Sr. Vice President

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, 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)
1. (Over)/under Recovery - Beginning Balance August 1, 2019	(\$151,031)	\$607,190	(\$758,221)
2. Estimated Total Costs (August 2019 - July 2020)	\$29,592,044	\$30,092,000	(\$499,956)
3. Estimated Interest (August 2019 - July 2020)	<u>\$10,350</u>	<u>\$20,258</u>	<u>(\$9,909)</u>
4. Costs to be Recovered (L.1 + L.2 + L.3)	\$29,451,363	\$30,719,449	(\$1,268,086)
5. Estimated Calendar Month Deliveries in kWh (August 2019 - July 2020)	<u>1,176,895,402</u>	<u>1,176,895,402</u>	<u>1,176,895,402</u>
6. External Delivery Charge (\$/kWh) (L. 4 / L. 5)	\$0.02502	\$0.02610	(\$0.00108)

Authorized by NHPUC Order No. ~~26,160~~ in Case No. ~~DE 18-096~~, dated ~~July 20, 2018~~

Issued: June 14, 2019 ~~July 31, 2018~~
 Effective: August 1, 2019 ~~8~~

Issued By: Christine Vaughan ~~Mark H. Collin~~
 Sr. Vice President

SUMMARY OF DELIVERY SERVICE RATES

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	Transmission	Total	Stranded Cost Charge**	Storm Recovery Adjustment Factor***	System Benefits Charge****	Total Delivery Charges
			External Delivery Charge**	External Delivery Charge**	External Delivery Charge**				
D	Customer Charge	\$16.22						(1)	\$16.22
	All kWh	\$0.03558	(\$0.00108) (\$0.00109)	\$0.02610 \$0.02498	\$0.02502 \$0.02389	(\$0.00012) (\$0.00101)	\$0.00084	\$0.00576	\$0.06708 \$0.06506
G2	Customer Charge	\$29.19							\$29.19
	All kW	\$10.51				(\$0.02) (\$0.21)			\$10.49 \$10.30
	All kWh	\$0.00000	(\$0.00108) (\$0.00109)	\$0.02610 \$0.02498	\$0.02502 \$0.02389	(\$0.00002) (\$0.00021)	\$0.00084	\$0.00576	\$0.03160 \$0.03028
G2 - kWh meter	Customer Charge	\$18.38							\$18.38
	All kWh	\$0.00883	(\$0.00108) (\$0.00109)	\$0.02610 \$0.02498	\$0.02502 \$0.02389	(\$0.00012) (\$0.00101)	\$0.00084	\$0.00576	\$0.04033 \$0.03831
G2 - Quick Recovery Water Heat and/or Space Heat	Customer Charge	\$9.73							\$9.73
	All kWh	\$0.03204	(\$0.00108) (\$0.00109)	\$0.02610 \$0.02498	\$0.02502 \$0.02389	(\$0.00012) (\$0.00101)	\$0.00084	\$0.00576	\$0.06354 \$0.06152
G1	Customer Charge	\$162.18	Secondary Voltage						\$162.18
	Customer Charge	\$86.49	Primary Voltage						\$86.49
	All kVA	\$7.60				(\$0.03) (\$0.25)			\$7.57 \$7.35
	All kWh	\$0.00000	(\$0.00108) (\$0.00109)	\$0.02610 \$0.02498	\$0.02502 \$0.02389	(\$0.00003) (\$0.00025)	\$0.00084	\$0.00576	\$0.03159 \$0.03024
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 \$0.00373 per kWh and lost base revenue portion of \$0.00053 per kWh.

* Authorized by NHPUC Order No. 26,236 in Case No. DE 19-043, dated April 22, 2019

** Authorized by NHPUC Order No. ~~26,160~~ in Case No. ~~DE 18-096~~, dated ~~July 20, 2018~~

*** Authorized by NHPUC Order No. 26,236 in Case No. DE 19-043, dated April 22, 2019

**** Authorized by NHPUC Order No. 26,207 in Case No. DE 17-136, dated December 31, 2018

Issued: June 14~~April 30~~, 2019
Effective: August~~May~~ 1, 2019

Issued By: Christine Vaughan
Sr. Vice President

SUMMARY OF DELIVERY SERVICE RATES (continued)

Class	Non-Transmission		Transmission		Stranded Cost Charge**	Storm Recovery Adjustment Factor***	System Benefits Charge**** (1)	Total Delivery Charges
	Distribution Charge*	External Delivery Charge**	External Delivery Charge**	External Delivery Charge**				
OL		(\$0.00108)	\$0.02610	\$0.02502	(\$0.00012)			\$0.03150
All kWh	\$0.00000	(\$0.00109)	\$0.02498	\$0.02389	(\$0.00101)	\$0.00084	\$0.00576	\$0.02948

Luminaire Charges

Lamp Size Nominal Watts	Lumens (Approx.)	All-Night Service Monthly kWh	Midnight Service Monthly kWh	Description	Price Per Luminaire	
					Per Mo.	Per Year
100	3,500	43	20	Mercury Vapor Street	\$13.28	\$159.36
175	7,000	71	33	Mercury Vapor Street	\$15.75	\$189.00
250	11,000	100	46	Mercury Vapor Street	\$17.85	\$214.20
400	20,000	157	73	Mercury Vapor Street	\$21.25	\$255.00
1,000	60,000	372	173	Mercury Vapor Street	\$42.19	\$506.28
250	11,000	100	46	Mercury Vapor Flood	\$19.02	\$228.24
400	20,000	157	73	Mercury Vapor Flood	\$22.75	\$273.00
1,000	60,000	380	176	Mercury Vapor Flood	\$37.70	\$452.40
100	3,500	48	22	Mercury Vapor Power Bracket	\$13.41	\$160.92
175	7,000	71	33	Mercury Vapor Power Bracket	\$14.87	\$178.44
50	4,000	23	11	Sodium Vapor Street	\$13.52	\$162.24
100	9,500	48	22	Sodium Vapor Street	\$15.22	\$182.64
150	16,000	65	30	Sodium Vapor Street	\$15.28	\$183.36
250	30,000	102	47	Sodium Vapor Street	\$19.14	\$229.68
400	50,000	161	75	Sodium Vapor Street	\$24.13	\$289.56
1,000	140,000	380	176	Sodium Vapor Street	\$41.66	\$499.92
150	16,000	65	30	Sodium Vapor Flood	\$17.61	\$211.32
250	30,000	102	47	Sodium Vapor Flood	\$20.76	\$249.12
400	50,000	161	75	Sodium Vapor Flood	\$23.58	\$282.96
1,000	140,000	380	176	Sodium Vapor Flood	\$42.03	\$504.36
50	4,000	23	11	Sodium Vapor Power Bracket	\$12.51	\$150.12
100	9,500	48	22	Sodium Vapor Power Bracket	\$14.04	\$168.48
175	8,800	74	34	Metal Halide Street	\$19.91	\$238.92
250	13,500	102	47	Metal Halide Street	\$21.65	\$259.80
400	23,500	158	73	Metal Halide Street	\$22.45	\$269.40
175	8,800	74	34	Metal Halide Flood	\$23.00	\$276.00
250	13,500	102	47	Metal Halide Flood	\$24.83	\$297.96
400	23,500	158	73	Metal Halide Flood	\$24.88	\$298.56
1,000	86,000	374	174	Metal Halide Flood	\$32.22	\$386.64
175	8,800	74	34	Metal Halide Power Bracket	\$18.63	\$223.56
250	13,500	102	47	Metal Halide Power Bracket	\$19.81	\$237.72
400	23,500	158	73	Metal Halide Power Bracket	\$21.17	\$254.04
42	3,600	15	7	LED Area Light Fixture	\$13.16	\$157.92
57	5,200	20	9	LED Area Light Fixture	\$13.21	\$158.52
25	3,000	9	4	LED Cobra Head Fixture	\$13.11	\$157.32
88	8,300	30	14	LED Cobra Head Fixture	\$13.30	\$159.60
108	11,500	37	17	LED Cobra Head Fixture	\$13.36	\$160.32
193	21,000	67	31	LED Cobra Head Fixture	\$13.62	\$163.44
123	12,180	43	20	LED Flood Light Fixture	\$13.41	\$160.92
194	25,700	67	31	LED Flood Light Fixture	\$13.62	\$163.44
297	38,100	103	48	LED Flood Light Fixture	\$13.93	\$167.16

(1) Includes low-income portion of \$0.00150 per kWh, energy efficiency portion of \$0.00373 per kWh and lost base revenue portion of \$0.00053 per kWh.

* Authorized by NHPUC Order No. 26,236 in Case No. DE 19-043, dated April 22, 2019

** Authorized by NHPUC Order No. ~~26,160~~ in Case No. ~~DE 18-096~~, dated ~~July 20, 2018~~

*** Authorized by NHPUC Order No. 26,236 in Case No. DE 19-043, dated April 22, 2019

**** Authorized by NHPUC Order No. 26,207 in Case No. DE 17-136, dated December 31, 2018

Issued: June 14, 2019
Effective: August 1, 2019Issued By: Christine Vaughan
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									
				Aug-Jun-Nov 2019 (1)	Aug-Jun-Nov 2019 (2)	Jun-19 (3)	Jul-19 (3)	Aug-19 (3)	Sep-19 (3)	Oct-19 (3)	Nov-19 (3)				
1 (4)	N/A	N/A													
2	151 - 200	8%	Customer Charge First 750 kWh Excess 750 kWh	(\$1.30) (\$0.00537) (\$0.00520) \$0.00000	(\$0.00617) \$0.00000	(\$0.00637) (\$0.00670) \$0.00000	(\$0.00670) \$0.00000	\$0.00554	\$0.00589	\$0.00589	\$0.00589	\$0.00589	\$0.00681	\$0.00000	\$0.00000
3	126 - 150	22%	Customer Charge First 750 kWh Excess 750 kWh	(\$3.57) (\$0.01476) (\$0.01431) \$0.00000	(\$0.01697) \$0.00000	(\$0.01751) (\$0.01843) \$0.00000	(\$0.01843) \$0.00000	\$0.01523	\$0.01620	\$0.01619	\$0.01620	\$0.01619	\$0.01872	\$0.00000	\$0.00000
4	101 - 125	36%	Customer Charge First 750 kWh Excess 750 kWh	(\$5.84) (\$0.02415) (\$0.02342) \$0.00000	(\$0.02777) \$0.00000	(\$0.02865) (\$0.03016) \$0.00000	(\$0.03016) \$0.00000	\$0.02492	\$0.02650	\$0.02650	\$0.02650	\$0.02650	\$0.03063	\$0.00000	\$0.00000
5	76 - 100	52%	Customer Charge First 750 kWh Excess 750 kWh	(\$8.43) (\$0.03488) (\$0.03383) \$0.00000	(\$0.04011) \$0.00000	(\$0.04139) (\$0.04357) \$0.00000	(\$0.04357) \$0.00000	\$0.03599	\$0.03828	\$0.03828	\$0.03828	\$0.03828	\$0.04425	\$0.00000	\$0.00000
6	0 - 75	76%	Customer Charge First 750 kWh Excess 750 kWh	(\$12.33) (\$0.05098) (\$0.04945) \$0.00000	(\$0.05863) \$0.00000	(\$0.06049) (\$0.06368) \$0.00000	(\$0.06368) \$0.00000	\$0.05260	\$0.05595	\$0.05594	\$0.05595	\$0.05594	\$0.06467	\$0.00000	\$0.00000

(1) Discount calculated using total utility charges from Page 4 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. Competitively supplied customers billed on a consolidated basis would receive these discounts plus the appropriate fixed default service supply discount.

(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. 26,233 in Case No. DE-19-049, dated April 12, 2019

00047

This page intentionally left blank.

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

Residential Rate D 650 kWh Bill

Rate Components	6/1/2019	8/1/2019	Difference	Current Bill	As Revised Bill	Difference	%
	<u>Current Rate</u>	<u>As Revised</u>					<u>Difference to Total Bill</u>
Customer Charge	\$16.22	\$16.22	\$0.00	\$16.22	\$16.22	\$0.00	0.0%
	<u>\$/kWh</u>	<u>\$/kWh</u>					
Distribution Charge	\$0.03558	\$0.03558	\$0.00000	\$23.13	\$23.13	\$0.00	0.0%
External Delivery Charge	\$0.02389	\$0.02502	\$0.00113	\$15.53	\$16.26	\$0.73	0.7%
Stranded Cost Charge	(\$0.00101)	(\$0.00012)	\$0.00089	(\$0.66)	(\$0.08)	\$0.58	0.5%
Storm Recovery Adj.	\$0.00084	\$0.00084	\$0.00000	\$0.55	\$0.55	\$0.00	0.0%
System Benefits Charge	\$0.00576	\$0.00576	\$0.00000	\$3.74	\$3.74	\$0.00	0.0%
Default Service Charge	<u>\$0.07714</u>	<u>\$0.07714</u>	<u>\$0.00000</u>	<u>\$50.14</u>	<u>\$50.14</u>	<u>\$0.00</u>	<u>0.0%</u>
Total kWh Charges	\$0.14220	\$0.14422	\$0.00202				
Total Bill				\$108.65	\$109.96	\$1.31	1.2%

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

Rate Components	6/1/2019	8/1/2019	Difference	Current Bill	As Revised Bill	Difference	%
	<u>Current Rate</u>	<u>As Revised</u>					<u>Difference to Total Bill</u>
Customer Charge	\$29.19	\$29.19	\$0.00	\$29.19	\$29.19	\$0.00	0.0%
	<u>All kW</u>	<u>All kW</u>					
Distribution Charge	\$10.51	\$10.51	\$0.00	\$115.61	\$115.61	\$0.00	0.0%
Stranded Cost Charge	<u>(\$0.21)</u>	<u>(\$0.02)</u>	<u>\$0.19</u>	<u>(\$2.31)</u>	<u>(\$0.22)</u>	<u>\$2.09</u>	<u>0.5%</u>
Total kW Charges	\$10.30	\$10.49	\$0.19	\$113.30	\$115.39	\$2.09	0.5%
	<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	\$0.02389	\$0.02502	\$0.00113	\$66.89	\$70.06	\$3.16	0.8%
Stranded Cost Charge	(\$0.00021)	(\$0.00002)	\$0.00019	(\$0.59)	(\$0.06)	\$0.53	0.1%
Storm Recovery Adj.	\$0.00084	\$0.00084	\$0.00000	\$2.35	\$2.35	\$0.00	0.0%
System Benefits Charge	\$0.00576	\$0.00576	\$0.00000	\$16.13	\$16.13	\$0.00	0.0%
Default Service Charge	<u>\$0.06872</u>	<u>\$0.06872</u>	<u>\$0.00000</u>	<u>\$192.42</u>	<u>\$192.42</u>	<u>\$0.00</u>	<u>0.0%</u>
Total kWh Charges	\$0.09900	\$0.10032	\$0.00132	\$277.20	\$280.90	\$3.70	0.9%
Total Bill				\$419.69	\$425.48	\$5.79	1.4%

00049

**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>							
	6/1/2019	8/1/2019					%
<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	\$9.73	\$9.73	\$0.00	\$9.73	\$9.73	\$0.00	0.0%
	<u>\$/kWh</u>	<u>\$/kWh</u>					
Distribution Charge	\$0.03204	\$0.03204	\$0.00000	\$53.19	\$53.19	\$0.00	0.0%
External Delivery Charge	\$0.02389	\$0.02502	\$0.00113	\$39.66	\$41.53	\$1.88	0.8%
Stranded Cost Charge	(\$0.00101)	(\$0.00012)	\$0.00089	(\$1.68)	(\$0.20)	\$1.48	0.7%
Storm Recovery Adj.	\$0.00084	\$0.00084	\$0.00000	\$1.39	\$1.39	\$0.00	0.0%
System Benefits Charge	\$0.00576	\$0.00576	\$0.00000	\$9.56	\$9.56	\$0.00	0.0%
Default Service Charge	<u>\$0.06872</u>	<u>\$0.06872</u>	<u>\$0.00000</u>	<u>\$114.08</u>	<u>\$114.08</u>	<u>\$0.00</u>	<u>0.0%</u>
Total kWh Charges	\$0.13024	\$0.13226	\$0.00202	\$216.20	\$219.55	\$3.35	1.5%
Total Bill				\$225.93	\$229.28	\$3.35	1.5%

<u>Regular General G2 kWh Meter 115 kWh Typical Bill</u>							
	6/1/2019	8/1/2019					%
<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	\$18.38	\$18.38	\$0.00	\$18.38	\$18.38	\$0.00	0.0%
	<u>\$/kWh</u>	<u>\$/kWh</u>					
Distribution Charge	\$0.00883	\$0.00883	\$0.00000	\$1.02	\$1.02	\$0.00	0.0%
External Delivery Charge	\$0.02389	\$0.02502	\$0.00113	\$2.75	\$2.88	\$0.13	0.4%
Stranded Cost Charge	(\$0.00101)	(\$0.00012)	\$0.00089	(\$0.12)	(\$0.01)	\$0.10	0.3%
Storm Recovery Adj.	\$0.00084	\$0.00084	\$0.00000	\$0.10	\$0.10	\$0.00	0.0%
System Benefits Charge	\$0.00576	\$0.00576	\$0.00000	\$0.66	\$0.66	\$0.00	0.0%
Default Service Charge	<u>\$0.06872</u>	<u>\$0.06872</u>	<u>\$0.00000</u>	<u>\$7.90</u>	<u>\$7.90</u>	<u>\$0.00</u>	<u>0.0%</u>
Total kWh Charges	\$0.10703	\$0.10905	\$0.00202	\$12.31	\$12.54	\$0.23	0.8%
Total Bill				\$30.69	\$30.92	\$0.23	0.8%

00050

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

Large General - G1 550 kVa, 200,000 kWh Typical Bill

	6/1/2019	8/1/2019					%
<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	\$162.18	\$162.18	\$0.00	\$162.18	\$162.18	\$0.00	0.0%
	<u>All kVa</u>	<u>All kVa</u>					
Distribution Charge	\$7.60	\$7.60	\$0.00	\$4,180.00	\$4,180.00	\$0.00	0.0%
Stranded Cost Charge	<u>(\$0.25)</u>	<u>(\$0.03)</u>	<u>\$0.22</u>	<u>(\$137.50)</u>	<u>(\$16.50)</u>	<u>\$121.00</u>	<u>0.6%</u>
Total kVa Charges	\$7.35	\$7.57	\$0.22	\$4,042.50	\$4,163.50	\$121.00	0.6%
	<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	\$0.02389	\$0.02502	\$0.00113	\$4,778.00	\$5,004.00	\$226.00	1.0%
Stranded Cost Charge	<u>(\$0.00025)</u>	<u>(\$0.00003)</u>	<u>\$0.00022</u>	<u>(\$50.00)</u>	<u>(\$6.00)</u>	<u>\$44.00</u>	<u>0.2%</u>
Storm Recovery Adj.	\$0.00084	\$0.00084	\$0.00000	\$168.00	\$168.00	\$0.00	0.0%
System Benefits Charge	\$0.00576	\$0.00576	\$0.00000	\$1,152.00	\$1,152.00	\$0.00	0.0%
Default Service Charge *	<u>\$0.05666</u>	<u>\$0.05666</u>	<u>\$0.00000</u>	<u>\$11,332.00</u>	<u>\$11,332.00</u>	<u>\$0.00</u>	<u>0.0%</u>
Total kWh Charges	\$0.08690	\$0.08825	\$0.00135	\$17,380.00	\$17,650.00	\$270.00	1.3%
Total Bill				\$21,584.68	\$21,975.68	\$391.00	1.8%

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

00051

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

Residential Rate D 646 kWh Bill - Mean Use*

	6/1/2019	8/1/2019					%
<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	\$16.22	\$16.22	\$0.00	\$16.22	\$16.22	\$0.00	0.0%
	<u>\$/kWh</u>	<u>\$/kWh</u>					
Distribution Charge	\$0.03558	\$0.03558	\$0.00000	\$22.98	\$22.98	\$0.00	0.0%
External Delivery Charge	\$0.02389	\$0.02502	\$0.00113	\$15.43	\$16.16	\$0.73	0.7%
Stranded Cost Charge	(\$0.00101)	(\$0.00012)	\$0.00089	(\$0.65)	(\$0.08)	\$0.57	0.5%
Storm Recovery Adj.	\$0.00084	\$0.00084	\$0.00000	\$0.54	\$0.54	\$0.00	0.0%
System Benefits Charge	\$0.00576	\$0.00576	\$0.00000	\$3.72	\$3.72	\$0.00	0.0%
Default Service Charge	<u>\$0.07714</u>	<u>\$0.07714</u>	<u>\$0.00000</u>	<u>\$49.83</u>	<u>\$49.83</u>	<u>\$0.00</u>	<u>0.0%</u>
Total kWh Charges	\$0.14220	\$0.14422	\$0.00202				
Total Bill				\$108.08	\$109.39	\$1.30	1.2%

Residential Rate D 524 kWh Bill - Median Use*

	6/1/2019	8/1/2019					%
<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	\$16.22	\$16.22	\$0.00	\$16.22	\$16.22	\$0.00	0.0%
	<u>\$/kWh</u>	<u>\$/kWh</u>					
Distribution Charge	\$0.03558	\$0.03558	\$0.00000	\$18.64	\$18.64	\$0.00	0.0%
External Delivery Charge	\$0.02389	\$0.02502	\$0.00113	\$12.52	\$13.11	\$0.59	0.7%
Stranded Cost Charge	(\$0.00101)	(\$0.00012)	\$0.00089	(\$0.53)	(\$0.06)	\$0.47	0.5%
Storm Recovery Adj.	\$0.00084	\$0.00084	\$0.00000	\$0.44	\$0.44	\$0.00	0.0%
System Benefits Charge	\$0.00576	\$0.00576	\$0.00000	\$3.02	\$3.02	\$0.00	0.0%
Default Service Charge	<u>\$0.07714</u>	<u>\$0.07714</u>	<u>\$0.00000</u>	<u>\$40.42</u>	<u>\$40.42</u>	<u>\$0.00</u>	<u>0.0%</u>
Total kWh Charges	\$0.14220	\$0.14422	\$0.00202				
Total Bill				\$90.73	\$91.79	\$1.06	1.2%

* Based on billing period January through December 2018.

00052

Unitil Energy Systems, Inc.
Average Class Bill Impacts
Due to Proposed Rate Changes Effective August 1, 2019

(A) Class of Service	(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	\$443,109	\$562,600	\$83,535,610	\$84,541,319	\$1,005,709	1.2%
General Service	131,872	354,161,409	1,348,556	\$315,204	\$400,202	\$52,836,747	\$53,552,153	\$715,406	1.4%
Large General Service	1,878	353,924,392	1,022,850	\$314,993	\$399,935	\$38,341,978	\$39,056,906	\$714,927	1.9%
Outdoor Lighting	110,850	8,241,454	n/a	\$7,335	\$9,313	\$2,688,911	\$2,705,558	\$16,648	0.6%
Total	1,029,906	1,214,203,082		\$1,080,641	\$1,372,049	\$177,403,246	\$179,855,936	\$2,452,690	1.4%

(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)

00053

Unitil Energy Systems, Inc.
Typical Bill Impacts - June 1, 2019 vs. August 1, 2019
Due to Changes in the External Delivery Charge and Stranded Cost Charge
Impact on D Rate Customers

<u>Average kWh</u>	<u>Total Bill Using Rates 6/1/2019</u>	<u>Total Bill Using Rates 8/1/2019</u>	<u>Total Difference</u>	<u>% Total Difference</u>
125	\$34.00	\$34.25	\$0.25	0.7%
150	\$37.55	\$37.85	\$0.30	0.8%
200	\$44.66	\$45.06	\$0.40	0.9%
250	\$51.77	\$52.28	\$0.51	1.0%
300	\$58.88	\$59.49	\$0.61	1.0%
350	\$65.99	\$66.70	\$0.71	1.1%
400	\$73.10	\$73.91	\$0.81	1.1%
450	\$80.21	\$81.12	\$0.91	1.1%
500	\$87.32	\$88.33	\$1.01	1.2%
525	\$90.88	\$91.94	\$1.06	1.2%
550	\$94.43	\$95.54	\$1.11	1.2%
575	\$97.99	\$99.15	\$1.16	1.2%
600	\$101.54	\$102.75	\$1.21	1.2%
625	\$105.10	\$106.36	\$1.26	1.2%
650	\$108.65	\$109.96	\$1.31	1.2%
675	\$112.21	\$113.57	\$1.36	1.2%
700	\$115.76	\$117.17	\$1.41	1.2%
725	\$119.32	\$120.78	\$1.46	1.2%
750	\$122.87	\$124.39	\$1.52	1.2%
775	\$126.43	\$127.99	\$1.57	1.2%
825	\$133.54	\$135.20	\$1.67	1.2%
925	\$147.76	\$149.62	\$1.87	1.3%
1,000	\$158.42	\$160.44	\$2.02	1.3%
1,250	\$193.97	\$196.50	\$2.53	1.3%
1,500	\$229.52	\$232.55	\$3.03	1.3%
2,000	\$300.62	\$304.66	\$4.04	1.3%
3,500	\$513.92	\$520.99	\$7.07	1.4%
5,000	\$727.22	\$737.32	\$10.10	1.4%

	<u>Rates - Effective June 1, 2019</u>	<u>Rates - Proposed August 1, 2019</u>	<u>Difference</u>
Customer Charge	\$16.22	\$16.22	\$0.00
	<u>kWh</u>	<u>kWh</u>	<u>kWh</u>
Distribution Charge:	\$0.03558	\$0.03558	\$0.00000
External Delivery Charge	\$0.02389	\$0.02502	\$0.00113
Stranded Cost Charge	(\$0.00101)	(\$0.00012)	\$0.00089
Storm Recovery Adjustment Factor	\$0.00084	\$0.00084	\$0.00000
System Benefits Charge	\$0.00576	\$0.00576	\$0.00000
Default Service Charge	<u>\$0.07714</u>	<u>\$0.07714</u>	<u>\$0.00000</u>
TOTAL	\$0.14220	\$0.14422	\$0.00202

Unitil Energy Systems, Inc.
Typical Bill Impacts - June 1, 2019 vs. August 1, 2019
Due to Changes in the External Delivery Charge and Stranded Cost Charge
Impact on G2 Rate Customers

Load Factor	Average Monthly kW	Average Monthly kWh	Total Bill Using Rates 6/1/2019	Total Bill Using Rates 8/1/2019	Total Difference	% Total Difference
20%	5	730	\$152.96	\$154.87	\$1.91	1.3%
20%	10	1,460	\$276.73	\$280.56	\$3.83	1.4%
20%	15	2,190	\$400.50	\$406.24	\$5.74	1.4%
20%	25	3,650	\$648.04	\$657.61	\$9.57	1.5%
20%	50	7,300	\$1,266.89	\$1,286.03	\$19.14	1.5%
20%	75	10,950	\$1,885.74	\$1,914.44	\$28.70	1.5%
20%	100	14,600	\$2,504.59	\$2,542.86	\$38.27	1.5%
20%	150	21,900	\$3,742.29	\$3,799.70	\$57.41	1.5%
36%	5	1,314	\$210.78	\$213.46	\$2.68	1.3%
36%	10	2,628	\$392.36	\$397.73	\$5.37	1.4%
36%	15	3,942	\$573.95	\$582.00	\$8.05	1.4%
36%	25	6,570	\$937.12	\$950.54	\$13.42	1.4%
36%	50	13,140	\$1,845.05	\$1,871.89	\$26.84	1.5%
36%	75	19,710	\$2,752.98	\$2,793.25	\$40.27	1.5%
36%	100	26,280	\$3,660.91	\$3,714.60	\$53.69	1.5%
36%	150	39,420	\$5,476.77	\$5,557.30	\$80.53	1.5%
50%	5	1,825	\$261.37	\$264.72	\$3.36	1.3%
50%	10	3,650	\$493.54	\$500.26	\$6.72	1.4%
50%	15	5,475	\$725.72	\$735.79	\$10.08	1.4%
50%	25	9,125	\$1,190.07	\$1,206.86	\$16.80	1.4%
50%	50	18,250	\$2,350.94	\$2,384.53	\$33.59	1.4%
50%	75	27,375	\$3,511.82	\$3,562.20	\$50.39	1.4%
50%	100	36,500	\$4,672.69	\$4,739.87	\$67.18	1.4%
50%	150	54,750	\$6,994.44	\$7,095.21	\$100.77	1.4%
		Rates - Effective June 1, 2019	Rates - Proposed August 1, 2019	Difference		
Customer Charge		\$29.19	\$29.19	\$0.00		
		<u>All kW</u>	<u>All kW</u>	<u>All kW</u>		
Distribution Charge		\$10.51	\$10.51	\$0.00		
Stranded Cost Charge		(\$0.21)	(\$0.02)	\$0.19		
TOTAL		\$10.30	\$10.49	\$0.19		
		<u>kWh</u>	<u>kWh</u>	<u>kWh</u>		
Distribution Charge		\$0.00000	\$0.00000	\$0.00000		
External Delivery Charge		\$0.02389	\$0.02502	\$0.00113		
Stranded Cost Charge		(\$0.00021)	(\$0.00002)	\$0.00019		
Storm Recovery Adj. Factor		\$0.00084	\$0.00084	\$0.00000		
System Benefits Charge		\$0.00576	\$0.00576	\$0.00000		
Default Service Charge		<u>\$0.06872</u>	<u>\$0.06872</u>	<u>\$0.00000</u>		
TOTAL		\$0.09900	\$0.10032	\$0.00132		

Unitil Energy Systems, Inc. Typical Bill Impacts - June 1, 2019 vs. August 1, 2019 Due to Changes in the External Delivery Charge and Stranded Cost Charge Impact on G2 kWh Meter Rate Customers				
Average Monthly kWh	Total Bill Using Rates 6/1/2019	Total Bill Using Rates 8/1/2019	Total Difference	% Total Difference
15	\$19.99	\$20.02	\$0.03	0.2%
75	\$26.41	\$26.56	\$0.15	0.6%
150	\$34.43	\$34.74	\$0.30	0.9%
250	\$45.14	\$45.64	\$0.51	1.1%
350	\$55.84	\$56.55	\$0.71	1.3%
450	\$66.54	\$67.45	\$0.91	1.4%
550	\$77.25	\$78.36	\$1.11	1.4%
650	\$87.95	\$89.26	\$1.31	1.5%
750	\$98.65	\$100.17	\$1.51	1.5%
900	\$114.71	\$116.53	\$1.82	1.6%
	Rates - Effective June 1, 2019	Rates - Proposed August 1, 2019	Difference	
kWh Meter Customer Charge	\$18.38	\$18.38	\$0.00	
	<u>All kWh</u>	<u>All kWh</u>	<u>All kWh</u>	
Distribution Charge	\$0.00883	\$0.00883	\$0.00000	
External Delivery Charge	\$0.02389	\$0.02502	\$0.00113	
Stranded Cost Charge	(\$0.00101)	(\$0.00012)	\$0.00089	
Storm Recovery Adjustment Factor	\$0.00084	\$0.00084	\$0.00000	
System Benefits Charge	\$0.00576	\$0.00576	\$0.00000	
Default Service Charge	<u>\$0.06872</u>	<u>\$0.06872</u>	<u>\$0.00000</u>	
TOTAL	\$0.10703	\$0.10905	\$0.00202	

Unitil Energy Systems, Inc.
Typical Bill Impacts - June 1, 2019 vs. August 1, 2019
Due to Changes in the External Delivery Charge and Stranded Cost Charge
Impact on G2 QRWH and SH Rate Customers

Average kWh	Total Bill Using Rates 6/1/2019	Total Bill Using Rates 8/1/2019	Total Difference	% Total Difference
100	\$22.75	\$22.96	\$0.20	0.9%
200	\$35.78	\$36.18	\$0.40	1.1%
300	\$48.80	\$49.41	\$0.61	1.2%
400	\$61.83	\$62.63	\$0.81	1.3%
500	\$74.85	\$75.86	\$1.01	1.3%
750	\$107.41	\$108.93	\$1.52	1.4%
1,000	\$139.97	\$141.99	\$2.02	1.4%
1,500	\$205.09	\$208.12	\$3.03	1.5%
2,000	\$270.21	\$274.25	\$4.04	1.5%
2,500	\$335.33	\$340.38	\$5.05	1.5%

	Rates - Effective June 1, 2019	Rates - Proposed August 1, 2019	Difference
Customer Charge	\$9.73	\$9.73	\$0.00
	<u>All kWh</u>	<u>All kWh</u>	<u>All kWh</u>
Distribution Charge	\$0.03204	\$0.03204	\$0.00000
External Delivery Charge	\$0.02389	\$0.02502	\$0.00113
Stranded Cost Charge	(\$0.00101)	(\$0.00012)	\$0.00089
Storm Recovery Adjustment Factor	\$0.00084	\$0.00084	\$0.00000
System Benefits Charge	\$0.00576	\$0.00576	\$0.00000
Default Service Charge	<u>\$0.06872</u>	<u>\$0.06872</u>	<u>\$0.00000</u>
TOTAL	\$0.13024	\$0.13226	\$0.00202

Unitil Energy Systems, Inc.
Typical Bill Impacts - June 1, 2019 vs. August 1, 2019
Due to Changes in the External Delivery Charge and Stranded Cost Charge
Impact on G1 Rate Customers

Load Factor	Average Monthly kVa	Average Monthly kWh	Total Bill Using Rates 6/1/2019	Total Bill Using Rates 8/1/2019	Total Difference	% Total Difference
25.0%	200	36,500	\$4,804.03	\$4,897.31	\$93.27	1.9%
25.0%	400	73,000	\$9,445.88	\$9,632.43	\$186.55	2.0%
25.0%	600	109,500	\$14,087.73	\$14,367.56	\$279.82	2.0%
25.0%	800	146,000	\$18,729.58	\$19,102.68	\$373.10	2.0%
25.0%	1,000	182,500	\$23,371.43	\$23,837.81	\$466.38	2.0%
25.0%	1,500	273,750	\$34,976.06	\$35,675.62	\$699.56	2.0%
25.0%	2,000	365,000	\$46,580.68	\$47,513.43	\$932.75	2.0%
25.0%	2,500	456,250	\$58,185.31	\$59,351.24	\$1,165.94	2.0%
25.0%	3,000	547,500	\$69,789.93	\$71,189.06	\$1,399.13	2.0%
40.0%	200	58,400	\$6,707.14	\$6,829.98	\$122.84	1.8%
40.0%	400	116,800	\$13,252.10	\$13,497.78	\$245.68	1.9%
40.0%	600	175,200	\$19,797.06	\$20,165.58	\$368.52	1.9%
40.0%	800	233,600	\$26,342.02	\$26,833.38	\$491.36	1.9%
40.0%	1,000	292,000	\$32,886.98	\$33,501.18	\$614.20	1.9%
40.0%	1,500	438,000	\$49,249.38	\$50,170.68	\$921.30	1.9%
40.0%	2,000	584,000	\$65,611.78	\$66,840.18	\$1,228.40	1.9%
40.0%	2,500	730,000	\$81,974.18	\$83,509.68	\$1,535.50	1.9%
40.0%	3,000	876,000	\$98,336.58	\$100,179.18	\$1,842.60	1.9%
57.0%	200	83,220	\$8,864.00	\$9,020.35	\$156.35	1.8%
57.0%	400	166,440	\$17,565.82	\$17,878.51	\$312.69	1.8%
57.0%	600	249,660	\$26,267.63	\$26,736.68	\$469.04	1.8%
57.0%	800	332,880	\$34,969.45	\$35,594.84	\$625.39	1.8%
57.0%	1,000	416,100	\$43,671.27	\$44,453.01	\$781.73	1.8%
57.0%	1,500	624,150	\$65,425.82	\$66,598.42	\$1,172.60	1.8%
57.0%	2,000	832,200	\$87,180.36	\$88,743.83	\$1,563.47	1.8%
57.0%	2,500	1,040,250	\$108,934.91	\$110,889.24	\$1,954.34	1.8%
57.0%	3,000	1,248,300	\$130,689.45	\$133,034.66	\$2,345.20	1.8%
71.0%	200	103,660	\$10,640.23	\$10,824.18	\$183.94	1.7%
71.0%	400	207,320	\$21,118.29	\$21,486.17	\$367.88	1.7%
71.0%	600	310,980	\$31,596.34	\$32,148.17	\$551.82	1.7%
71.0%	800	414,640	\$42,074.40	\$42,810.16	\$735.76	1.7%
71.0%	1,000	518,300	\$52,552.45	\$53,472.16	\$919.70	1.8%
71.0%	1,500	777,450	\$78,747.59	\$80,127.14	\$1,379.56	1.8%
71.0%	2,000	1,036,600	\$104,942.72	\$106,782.13	\$1,839.41	1.8%
71.0%	2,500	1,295,750	\$131,137.86	\$133,437.12	\$2,299.26	1.8%
71.0%	3,000	1,554,900	\$157,332.99	\$160,092.11	\$2,759.11	1.8%

	Rates - Effective June 1, 2019	Rates - Proposed August 1, 2019	Difference
Customer Charge	\$162.18	\$162.18	\$0.00
	All kVA	All kVA	All kVA
Distribution Charge	\$7.60	\$7.60	\$0.00
Stranded Cost Charge	<u>(\$0.25)</u>	<u>(\$0.03)</u>	<u>\$0.22</u>
TOTAL	\$7.35	\$7.57	\$0.22
	All kWh	All kWh	All kWh
Distribution Charge	\$0.00000	\$0.00000	\$0.00000
External Delivery Charge	\$0.02389	\$0.02502	\$0.00113
Stranded Cost Charge	(\$0.00025)	(\$0.00003)	\$0.00022
Storm Recovery Adjustment Factor	\$0.00084	\$0.00084	\$0.00000
System Benefits Charge	\$0.00576	\$0.00576	\$0.00000
Default Service Charge*	<u>\$0.05666</u>	<u>\$0.05666</u>	<u>\$0.00000</u>
TOTAL	\$0.08690	\$0.08825	\$0.00135

* Default Service Charge for the G1 class is determined monthly. For purposes of this comparison, the June 2019 rate is unchanged.

Unitil Energy Systems, Inc. Typical Bill Impacts - June 1, 2019 vs. August 1, 2019 Due to Changes in the External Delivery Charge and Stranded Cost Charge Impact on OL Rate Customers *									
	Nominal Watts	Lumens	Type	Average Monthly kWh	Total Bill Using Rates 6/1/2019	Total Bill Using Rates 8/1/2019	Total Difference	% Total Difference	
<u>Mercury Vapor:</u>									
1	100	3,500	ST	43	\$17.50	\$17.59	\$0.09	0.5%	
2	175	7,000	ST	71	\$22.72	\$22.87	\$0.14	0.6%	
3	250	11,000	ST	100	\$27.67	\$27.87	\$0.20	0.7%	
4	400	20,000	ST	157	\$36.67	\$36.98	\$0.32	0.9%	
5	1,000	60,000	ST	372	\$78.72	\$79.47	\$0.75	1.0%	
6	250	11,000	FL	100	\$28.84	\$29.04	\$0.20	0.7%	
7	400	20,000	FL	157	\$38.17	\$38.48	\$0.32	0.8%	
8	1,000	60,000	FL	380	\$75.02	\$75.78	\$0.77	1.0%	
9	100	3,500	PB	48	\$18.12	\$18.22	\$0.10	0.5%	
10	175	7,000	PB	71	\$21.84	\$21.99	\$0.14	0.7%	
<u>High Pressure Sodium:</u>									
11	50	4,000	ST	23	\$15.78	\$15.83	\$0.05	0.3%	
12	100	9,500	ST	48	\$19.93	\$20.03	\$0.10	0.5%	
13	150	16,000	ST	65	\$21.66	\$21.79	\$0.13	0.6%	
14	250	30,000	ST	102	\$29.16	\$29.36	\$0.21	0.7%	
15	400	50,000	ST	161	\$39.94	\$40.27	\$0.33	0.8%	
16	1,000	140,000	ST	380	\$78.98	\$79.74	\$0.77	1.0%	
17	150	16,000	FL	65	\$23.99	\$24.12	\$0.13	0.5%	
18	250	30,000	FL	102	\$30.78	\$30.98	\$0.21	0.7%	
19	400	50,000	FL	161	\$39.39	\$39.72	\$0.33	0.8%	
20	1,000	140,000	FL	380	\$79.35	\$80.11	\$0.77	1.0%	
21	50	4,000	PB	23	\$14.77	\$14.82	\$0.05	0.3%	
22	100	9,500	PB	48	\$18.75	\$18.85	\$0.10	0.5%	
<u>Metal Halide:</u>									
23	175	8,800	ST	74	\$27.18	\$27.33	\$0.15	0.6%	
24	250	13,500	ST	102	\$31.67	\$31.87	\$0.21	0.7%	
25	400	23,500	ST	158	\$37.97	\$38.28	\$0.32	0.8%	
26	175	8,800	FL	74	\$30.27	\$30.42	\$0.15	0.5%	
27	250	13,500	FL	102	\$34.85	\$35.05	\$0.21	0.6%	
28	400	23,500	FL	158	\$40.40	\$40.71	\$0.32	0.8%	
29	1,000	86,000	FL	374	\$68.95	\$69.70	\$0.76	1.1%	
30	175	8,800	PB	74	\$25.90	\$26.05	\$0.15	0.6%	
31	250	13,500	PB	102	\$29.83	\$30.03	\$0.21	0.7%	
32	400	23,500	PB	158	\$36.69	\$37.00	\$0.32	0.9%	
<u>Light Emitting Diode:</u>									
33	42	3,600	AL	15	\$14.63	\$14.66	\$0.03	0.2%	
34	57	5,200	AL	20	\$15.17	\$15.21	\$0.04	0.3%	
35	25	3,000	CH	9	\$13.99	\$14.01	\$0.02	0.1%	
36	88	8,300	CH	30	\$16.25	\$16.31	\$0.06	0.4%	
37	108	11,500	CH	37	\$16.99	\$17.07	\$0.07	0.4%	
38	193	21,000	CH	67	\$20.20	\$20.33	\$0.14	0.7%	
39	123	12,180	FL	43	\$17.63	\$17.72	\$0.09	0.5%	
40	194	25,700	FL	67	\$20.20	\$20.33	\$0.14	0.7%	
41	297	38,100	FL	103	\$24.04	\$24.25	\$0.21	0.9%	
Luminaire Charges For Year Round Service:									
Rates - Effective June 1, 2019		Mercury Vapor Rate/Mo.		Sodium Vapor Rate/Mo.		Metal Halide Rate/Mo.		LED Rate/Mo.	
Customer Charge	\$0.00	1	\$13.28	11	\$13.52	23	\$19.91	33	\$13.16
		2	\$15.75	12	\$15.22	24	\$21.65	34	\$13.21
	<u>All kWh</u>	3	\$17.85	13	\$15.28	25	\$22.45	35	\$13.11
Distribution Charge	\$0.00000	4	\$21.25	14	\$19.14	26	\$23.00	36	\$13.30
External Delivery Charge	\$0.02389	5	\$42.19	15	\$24.13	27	\$24.83	37	\$13.36
Stranded Cost Charge	(\$0.00101)	6	\$19.02	16	\$41.66	28	\$24.88	38	\$13.62
Storm Recovery Adj. Factor	\$0.00084	7	\$22.75	17	\$17.61	29	\$32.22	39	\$13.41
System Benefits Charge	\$0.00576	8	\$37.70	18	\$20.76	30	\$18.63	40	\$13.62
Default Service Charge	\$0.06872	9	\$13.41	19	\$23.58	31	\$19.81	41	\$13.93
TOTAL	\$0.09820	10	\$14.87	20	\$42.03	32	\$21.17		
				21	\$12.51				
				22	\$14.04				
Rates - Proposed August 1, 2019		Mercury Vapor Rate/Mo.		Sodium Vapor Rate/Mo.		Metal Halide Rate/Mo.		LED Rate/Mo.	
Customer Charge	\$0.00	1	\$13.28	11	\$13.52	23	\$19.91	33	\$13.16
		2	\$15.75	12	\$15.22	24	\$21.65	34	\$13.21
	<u>All kWh</u>	3	\$17.85	13	\$15.28	25	\$22.45	35	\$13.11
Distribution Charge	\$0.00000	4	\$21.25	14	\$19.14	26	\$23.00	36	\$13.30
External Delivery Charge	\$0.02502	5	\$42.19	15	\$24.13	27	\$24.83	37	\$13.36
Stranded Cost Charge	(\$0.00012)	6	\$19.02	16	\$41.66	28	\$24.88	38	\$13.62
Storm Recovery Adj. Factor	\$0.00084	7	\$22.75	17	\$17.61	29	\$32.22	39	\$13.41
System Benefits Charge	\$0.00576	8	\$37.70	18	\$20.76	30	\$18.63	40	\$13.62
Default Service Charge	\$0.06872	9	\$13.41	19	\$23.58	31	\$19.81	41	\$13.93
TOTAL	\$0.10022	10	\$14.87	20	\$42.03	32	\$21.17		
				21	\$12.51				
				22	\$14.04				
Difference		Mercury Vapor Rate/Mo.		Sodium Vapor Rate/Mo.		Metal Halide Rate/Mo.		LED Rate/Mo.	
Customer Charge	\$0.00	1	\$0.00	11	\$0.00	23	\$0.00	33	\$0.00
		2	\$0.00	12	\$0.00	24	\$0.00	34	\$0.00
	<u>All kWh</u>	3	\$0.00	13	\$0.00	25	\$0.00	35	\$0.00
Distribution Charge	\$0.00000	4	\$0.00	14	\$0.00	26	\$0.00	36	\$0.00
External Delivery Charge	\$0.00113	5	\$0.00	15	\$0.00	27	\$0.00	37	\$0.00
Stranded Cost Charge	\$0.00089	6	\$0.00	16	\$0.00	28	\$0.00	38	\$0.00
Storm Recovery Adj. Factor	\$0.00000	7	\$0.00	17	\$0.00	29	\$0.00	39	\$0.00
System Benefits Charge	\$0.00000	8	\$0.00	18	\$0.00	30	\$0.00	40	\$0.00
Default Service Charge	\$0.00000	9	\$0.00	19	\$0.00	31	\$0.00	41	\$0.00
TOTAL	\$0.00202	10	\$0.00	20	\$0.00	32	\$0.00		
				21	\$0.00				
				22	\$0.00				

* Luminaire charges based on All-Night Service option.

This page intentionally left blank.