

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

Twenty-First~~Twentieth~~ Revised Page 75  
Superseding Twentieth~~Nineteenth~~ Page 75

### CALCULATION OF THE DEFAULT SERVICE CHARGE

					As shown on Schedule LSM-2, Page 1			
<b>G1 Class Default Service:</b>					<b><u>Feb-12</u></b>	<b><u>Mar-12</u></b>	<b><u>Apr-12</u></b>	<b><u>Total</u></b>
<b><i>Power Supply Charge</i></b>								
1 Reconciliation	<del>(\$1,127)</del>	<del>(\$1,147)</del>	<del>(\$1,195)</del>	<del>(\$3,469)</del>	(\$1,153)	(\$1,116)	(\$1,171)	(\$3,440)
2 Total Costs	<u>\$404,812</u>	<u>\$410,086</u>	<u>\$428,059</u>	<u>\$1,242,957</u>	<u>\$316,776</u>	<u>\$305,122</u>	<u>\$322,442</u>	<u>\$944,341</u>
3 Reconciliation plus Total Costs (L.1 + L.2)	<u>\$403,685</u>	<u>\$408,939</u>	<u>\$426,864</u>	<u>\$1,239,488</u>	\$315,623	\$304,006	\$321,272	\$940,901
4 kWh Purchases	<u>5,322,089</u>	<u>5,417,885</u>	<u>5,645,537</u>	<u>16,385,511</u>	<u>5,208,172</u>	<u>5,042,260</u>	<u>5,289,117</u>	15,539,549
5 Total, Before Losses (L.3 / L.4)	<u>\$0.07585</u>	<u>\$0.07548</u>	<u>\$0.07561</u>		\$0.06060	\$0.06029	\$0.06074	
6 Losses	<u>4.591%</u>	<u>4.591%</u>	<u>4.591%</u>		<u>4.591%</u>	<u>4.591%</u>	<u>4.591%</u>	
7 Total Retail Rate - Variable Power Supply Charge (L.5 * (1+L.6))	<u>\$0.07933</u>	<u>\$0.07894</u>	<u>\$0.07908</u>		\$0.06338	\$0.06306	\$0.06353	
<b><i>Renewable Portfolio Standard (RPS) Charge</i></b>					As shown on Schedule LSM-3, Page 1			
8 Reconciliation	<u>\$3,479</u>	<u>\$3,541</u>	<u>\$3,690</u>	<u>\$10,710</u>	<u>\$3,560</u>	<u>\$3,446</u>	<u>\$3,615</u>	<u>\$10,621</u>
9 Total Costs	<u>\$12,415</u>	<u>\$12,638</u>	<u>\$15,189</u>	<u>\$40,242</u>	<u>\$15,900</u>	<u>\$15,394</u>	<u>\$16,147</u>	<u>\$47,441</u>
10 Reconciliation plus Total Costs (L.8 + L.9)	<u>\$15,893</u>	<u>\$16,179</u>	<u>\$18,879</u>	<u>\$50,952</u>	\$19,460	\$18,840	\$19,762	\$58,062
11 kWh Purchases	<u>5,322,089</u>	<u>5,417,885</u>	<u>5,645,537</u>	<u>16,385,511</u>	<u>5,208,172</u>	<u>5,042,260</u>	<u>5,289,117</u>	15,539,549
12 Total, Before Losses (L.10 / L.11)	<u>\$0.00299</u>	<u>\$0.00299</u>	<u>\$0.00334</u>		\$0.00374	\$0.00374	\$0.00374	
13 Losses	<u>4.591%</u>	<u>4.591%</u>	<u>4.591%</u>		<u>4.591%</u>	<u>4.591%</u>	<u>4.591%</u>	
14 Total Retail Rate - Variable RPS Charge (L.12 * (1+L.13))	<u>\$0.00312</u>	<u>\$0.00312</u>	<u>\$0.00350</u>		\$0.00391	\$0.00391	\$0.00391	
15 Total Retail Rate - Variable Default Service Charge (L.7 + L.14)	<u>\$0.08245</u>	<u>\$0.08206</u>	<u>\$0.08258</u>		\$0.06729	\$0.06697	\$0.06744	

Authorized by NHPUC Order No. ~~25,269~~ in Case No. DE 11-028, dated ~~September 16, 2011~~

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Issued By: Mark H. Collin  
Treasurer

Unitil Energy Systems, Inc.  
Calculation of G1 Large General Service Class Default Service Power Supply Charge

Schedule LSM-2  
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	<b><u>Feb-12</u></b> <b><u>Estimated</u></b>	<b><u>Mar-12</u></b> <b><u>Estimated</u></b>	<b><u>Apr-12</u></b> <b><u>Estimated</u></b>	<b><u>Total</u></b>
1 Reconciliation (1)	(\$1,153)	(\$1,116)	(\$1,171)	(\$3,440)
2 Total Costs (Page 2)	<u>\$316,776</u>	<u>\$305,122</u>	<u>\$322,442</u>	<u>\$944,341</u>
3 Reconciliation plus Total Costs (L.1 + L.2)	\$315,623	\$304,006	\$321,272	\$940,901
4 kWh Purchases	<u>5,208,172</u>	<u>5,042,260</u>	<u>5,289,117</u>	15,539,549
5 Total, Before Losses (L.3 / L.4)	\$0.06060	\$0.06029	\$0.06074	
6 Losses	<u>4.591%</u>	<u>4.591%</u>	<u>4.591%</u>	
7 Total Retail Rate - Variable Power Supply Charge (L.5 * (1+L.6))	\$0.06338	\$0.06306	\$0.06353	

(1) As filed in UES' March 11, 2011 Default Service filing. Power Supply Charge balance as of January 31, 2011 as adjusted, allocated between rate periods (May-July 2011, August-October 2011, November 2011-January 2012, and February-April 2012) and then to each month on equal per kWh basis.

Total Power Supply Charge reconciliation for May 1, 2011-April 30, 2011 (\$14,609)

Reconciliation amount for May-July 2011	(\$3,867)
Reconciliation amount for August-October 2011	(\$3,832)
Reconciliation amount for November 2011-January 2012	(\$3,469)
Reconciliation amount for February-April 2012	<u>(\$3,440)</u>
Total	(\$14,609)

Redacted

Unitil Energy Systems, Inc.  
Itemized Costs for G1 Class Default Service Power Supply Charge

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<div> <div>Calculation of Working Capital</div> <div>Supplier Charges and GIS Support Payments</div> </div>											
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)
	Total G1 Class DS Supplier Charges (1)	GIS Support Payments	Number of Days of Lag / 365	Working Capital Requirement ((a+b)*c)	Prime Rate	Supply Related Working Capital (d * e)	Provision for Uncollected Accounts	Internal Company Administrative Costs	Legal Charges	Consulting Outside Service Charges	Total Costs (sum a + b + f + g + h + i + j)
Feb-12	Redacted	\$45	1.48%	Redacted	3.25%	Redacted	Redacted	\$3,153	\$0	\$0	\$316,776
Mar-12	Redacted	\$45	1.48%	Redacted	3.25%	Redacted	Redacted	\$3,153	\$0	\$0	\$305,122
Apr-12	<u>Redacted</u>	<u>\$44</u>	1.48%	<u>Redacted</u>	3.25%	<u>Redacted</u>	<u>Redacted</u>	<u>\$3,153</u>	<u>\$0</u>	<u>\$0</u>	<u>\$322,442</u>
Total	Redacted	\$134		Redacted		Redacted	Redacted	\$9,458	\$0	\$0	\$944,341

(1) Estimates based on monthly average wholesale rate times estimated monthly purchases.

Unitil Energy Systems, Inc.  
Calculation of G1 Class Default Service Renewable Portfolio Standard (RPS) Charge

Schedule LSM-3  
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	<b><u>Feb-12 Estimated</u></b>	<b><u>Mar-12 Estimated</u></b>	<b><u>Apr-12 Estimated</u></b>	<b><u>Total</u></b>
1 Reconciliation	\$3,560	\$3,446	\$3,615	\$10,621
2 Total Costs (Page 2)	<u>\$15,900</u>	<u>\$15,394</u>	<u>\$16,147</u>	<u>\$47,441</u>
3 Reconciliation plus Total Costs (L.1 + L.2)	\$19,460	\$18,840	\$19,762	\$58,062
4 kWh Purchases	<u>5,208,172</u>	<u>5,042,260</u>	<u>5,289,117</u>	15,539,549
5 Total, Before Losses (L.3 / L.4)	\$0.00374	\$0.00374	\$0.00374	
6 Losses	<u>4.591%</u>	<u>4.591%</u>	<u>4.591%</u>	
7 Total Retail Rate - Variable RPS Charge (L.5 * (1+L.6))	\$0.00391	\$0.00391	\$0.00391	

(1) As filed in UES' March 11, 2011 Default Service filing. RPS Charge balance as of January 31, 2011 as adjusted, allocated between rate periods (May-July 2011, August-October 2011, November 2011-January 2012, and February-April 2012) and then to each month on equal per kWh basis.

Total RPS Charge reconciliation for May 1, 2011-April 30, 2012	\$45,101
Reconciliation amount for May-July 2011	\$11,939
Reconciliation amount for August-October 2011	\$11,831
Reconciliation amount for November 2011-January 2012	\$10,710
Reconciliation amount for February-April 2012	<u>\$10,621</u>
Total	\$45,101

		<i>Calculation of Working Capital</i>				
	(a)	(b)	(c)	(d)	(e)	(f)
	Renewable Energy Credits (1)	Number of Days of Lag / 365	Working Capital Requirement (a*b)	Prime Rate	Supply Related Working Capital (c * d)	Total Costs (sum a + e)
Feb-12	\$16,358	(86.12%)	(\$14,087)	3.25%	(\$458)	\$15,900
Mar-12	\$15,837	(86.12%)	(\$13,638)	3.25%	(\$443)	\$15,394
Apr-12	<u>\$16,612</u>	(86.12%)	<u>(\$14,306)</u>	3.25%	<u>(\$465)</u>	<u>\$16,147</u>
Total	\$48,807		(\$42,030)		(\$1,366)	\$47,441

(1) Schedule TMB-4.

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

<b><u>Large General - G1 550 kVa, 200,000 kWh Typical Bill</u></b>							
<u>Rate Components</u>	<u>Current Rate 11/1/2011</u>	<u>Proposed Rate 2/1/2012</u>	<u>Difference</u>	<u>Current Bill*</u>	<u>Proposed Bill*</u>	<u>Difference (\$)</u>	<u>Rate Component Impact to Total Bill (%)</u>
Customer Charge	\$87.09	\$87.09	\$0.00	\$87.09	\$87.09	\$0.00	0.0%
	<b><u>All kVa</u></b>	<b><u>All kVa</u></b>					
Distribution Charge	\$6.25	\$6.25	\$0.00	\$3,437.50	\$3,437.50	\$0.00	0.0%
Stranded Cost Charge	<u>(\$0.01)</u>	<u>(\$0.01)</u>	<u>\$0.00</u>	<u>(\$5.50)</u>	<u>(\$5.50)</u>	<u>\$0.00</u>	<u>0.0%</u>
Total	\$6.24	\$6.24	\$0.00	\$3,432.00	\$3,432.00	\$0.00	0.0%
	<b><u>\$/kWh</u></b>	<b><u>\$/kWh</u></b>					
Distribution Charge	\$0.00034	\$0.00034	\$0.00000	\$68.00	\$68.00	\$0.00	0.0%
External Delivery Charge	\$0.01479	\$0.01479	\$0.00000	\$2,958.00	\$2,958.00	\$0.00	0.0%
Stranded Cost Charge	(\$0.00001)	(\$0.00001)	\$0.00000	(\$2.00)	(\$2.00)	\$0.00	0.0%
Storm Recovery Adjustment	\$0.00096	\$0.00096	\$0.00000	\$192.00	\$192.00	\$0.00	0.0%
System Benefits Charge	\$0.00330	\$0.00330	\$0.00000	\$660.00	\$660.00	\$0.00	0.0%
Default Service Charge	<u>\$0.08236</u>	<u>\$0.06723</u>	<u>(\$0.01513)</u>	<u>\$16,472.00</u>	<u>\$13,446.00</u>	<u>(\$3,026.00)</u>	<u>-12.7%</u>
Total	\$0.10174	\$0.08661	(\$0.01513)	\$20,348.00	\$17,322.00	(\$3,026.00)	-12.7%
Total Bill				\$23,867.09	\$20,841.09	(\$3,026.00)	-12.7%

\* Impacts do not include the Electricity Consumption Tax.



Unitil Energy Systems, Inc. Typical Bill Impacts - February 1, 2011 versus February 1, 2012 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 2/1/2011	Total Bill Using Rates 2/1/2012	Total Difference	% Total Difference
25.0%	200	36,500	\$4,752.80	\$4,496.36	(\$256.44)	(5.4%)
25.0%	400	73,000	\$9,396.73	\$8,905.62	(\$491.11)	(5.2%)
25.0%	600	109,500	\$14,040.67	\$13,314.89	(\$725.78)	(5.2%)
25.0%	800	146,000	\$18,684.60	\$17,724.15	(\$960.45)	(5.1%)
25.0%	1,000	182,500	\$23,328.54	\$22,133.42	(\$1,195.12)	(5.1%)
25.0%	1,500	273,750	\$34,938.37	\$33,156.58	(\$1,781.80)	(5.1%)
25.0%	2,000	365,000	\$46,548.21	\$44,179.74	(\$2,368.47)	(5.1%)
25.0%	2,500	456,250	\$58,158.05	\$55,202.90	(\$2,955.15)	(5.1%)
25.0%	3,000	547,500	\$69,767.89	\$66,226.07	(\$3,541.82)	(5.1%)
40.0%	200	58,400	\$6,815.56	\$6,393.11	(\$422.44)	(6.2%)
40.0%	400	116,800	\$13,522.25	\$12,699.14	(\$823.11)	(6.1%)
40.0%	600	175,200	\$20,228.95	\$19,005.16	(\$1,223.79)	(6.0%)
40.0%	800	233,600	\$26,935.64	\$25,311.19	(\$1,624.46)	(6.0%)
40.0%	1,000	292,000	\$33,642.34	\$31,617.21	(\$2,025.13)	(6.0%)
40.0%	1,500	438,000	\$50,409.08	\$47,382.27	(\$3,026.81)	(6.0%)
40.0%	2,000	584,000	\$67,175.82	\$63,147.33	(\$4,028.49)	(6.0%)
40.0%	2,500	730,000	\$83,942.56	\$78,912.39	(\$5,030.17)	(6.0%)
40.0%	3,000	876,000	\$100,709.30	\$94,677.45	(\$6,031.85)	(6.0%)
57.0%	200	83,220	\$9,153.35	\$8,542.77	(\$610.58)	(6.7%)
57.0%	400	166,440	\$18,197.84	\$16,998.46	(\$1,199.39)	(6.6%)
57.0%	600	249,660	\$27,242.34	\$25,454.14	(\$1,788.19)	(6.6%)
57.0%	800	332,880	\$36,286.83	\$33,909.83	(\$2,377.00)	(6.6%)
57.0%	1,000	416,100	\$45,331.32	\$42,365.51	(\$2,965.81)	(6.5%)
57.0%	1,500	624,150	\$67,942.55	\$63,504.72	(\$4,437.83)	(6.5%)
57.0%	2,000	832,200	\$90,553.78	\$84,643.93	(\$5,909.85)	(6.5%)
57.0%	2,500	1,040,250	\$113,165.01	\$105,783.14	(\$7,381.87)	(6.5%)
57.0%	3,000	1,248,300	\$135,776.24	\$126,922.35	(\$8,853.88)	(6.5%)
71.0%	200	103,660	\$11,078.60	\$10,313.08	(\$765.51)	(6.9%)
71.0%	400	207,320	\$22,048.33	\$20,539.08	(\$1,509.26)	(6.8%)
71.0%	600	310,980	\$33,018.07	\$30,765.07	(\$2,253.00)	(6.8%)
71.0%	800	414,640	\$43,987.80	\$40,991.06	(\$2,996.74)	(6.8%)
71.0%	1,000	518,300	\$54,957.54	\$51,217.05	(\$3,740.48)	(6.8%)
71.0%	1,500	777,450	\$82,381.88	\$76,782.03	(\$5,599.84)	(6.8%)
71.0%	2,000	1,036,600	\$109,806.21	\$102,347.02	(\$7,459.20)	(6.8%)
71.0%	2,500	1,295,750	\$137,230.55	\$127,912.00	(\$9,318.56)	(6.8%)
71.0%	3,000	1,554,900	\$164,654.89	\$153,476.98	(\$11,177.91)	(6.8%)

  

	Rates Effective February 1, 2011	Rates - Proposed February 1, 2012	Difference
Customer Charge	\$108.86	\$87.09	(\$21.77)
	<u>All kVA</u>	<u>All kVA</u>	<u>All kVA</u>
Distribution Charge	\$5.69	\$6.25	\$0.56
Stranded Cost Charge	<u>\$0.34</u>	<u>(\$0.01)</u>	<u>(\$0.35)</u>
<b>TOTAL</b>	<b>\$6.03</b>	<b>\$6.24</b>	<b>\$0.21</b>
	<u>All kWh</u>	<u>All kWh</u>	<u>All kWh</u>
Distribution Charge	\$0.00438	\$0.00034	(\$0.00404)
External Delivery Charge	\$0.01688	\$0.01479	(\$0.00209)
Stranded Cost Charge	\$0.00041	(\$0.00001)	(\$0.00042)
Storm Recovery Adjustment	\$0.00000	\$0.00096	\$0.00096
System Benefits Charge	\$0.00330	\$0.00330	\$0.00000
Default Service Charge*	<u>\$0.06922</u>	<u>\$0.06723</u>	<u>(\$0.00199)</u>
<b>TOTAL</b>	<b>\$0.09419</b>	<b>\$0.08661</b>	<b>(\$0.00758)</b>

\* Default Service Charges shown are based on the average of the DSC for each 3-month period.