

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
Distribution TOU Rate Calculation

Rate D Revenue Calculation

1	Total 2017 Revenues	\$	13,259,732
2	Average # Customers		34,933
3	Revenue per Customer	\$	379.58
4	Total kWh		282,567,181
5	Total customers		<u>1,000</u>
6	Total revenues		\$379,581

Time-of-Use Rate Calculation

<u>Period</u>	<u>Actual Usage</u>	<u>kWh/Customer Annually</u>	<u>1000 Customers</u>	<u>Total Revenues</u>	<u>Illustrative Rates/kWh</u>
(a)	(b)	(c)	(d)	(e.)	(f)
2PM - 7PM	69,897,927	2,001	2,000,938	\$ 265,706	\$ 0.13279
7PM - 8AM	141,375,618	4,047	4,047,099	\$ 37,958	\$ 0.00938
8AM - 2PM	71,293,636	2,041	2,040,892	\$ 75,916	\$ 0.03720
	<u>282,567,181</u>	<u>8,089</u>	<u>8,088,929</u>	<u>\$ 379,581</u>	

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3 (1) / (2)

4 Total of column (b)

5 # of participants

6 (3) x (5)

(a) Rate periods

(b) Usage between 7/1/2016 - 6/30/2017

(c) (b) / (2) above

(d) (c) x 1000

(e) (6) above multiplied by %

(f) (e) / (d)

**Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
Transmission TOU Rate Calculation**

Rate D Cost/kW Calculation

1 Total Peak kW		1,829,875
2 Cost to Serve Peak Load	\$	21,135,056
3 Average Cost per kW	\$	11.55
4 Rate D Portion of Peak Load		0.3406
5 Rate D Portion of Peak	\$	7,198,600
6 Total kWh		282,567,181
7 Average # Customers		34,933
8 kWh per Customer Annually		8,089
9 1000 Customer Pilot kWh		8,088,929
10 kWh Associated with Pilot		2.86%
11 Total Costs	\$	206,071

Time-of-Use Rate Calculation

<u>Period</u>	<u>Actual Usage</u>	<u>kWh/Customer Annually</u>	<u>1000 Customers</u>	<u>Total Revenues</u>	<u>Illustrative Rates/kWh</u>
(a)	(b)	(c)	(d)	(e)	(f)
2PM - 7PM	69,897,927	2,001	2,000,938	\$ 144,250	\$ 0.07209
7PM - 8AM	141,375,618	4,047	4,047,099	\$ 20,607	\$ 0.00509
8AM - 2PM	71,293,636	2,041	2,040,892	\$ 41,214	\$ 0.02019
	<u>282,567,181</u>	<u>8,089</u>	<u>8,088,929</u>	<u>\$ 206,071</u>	

- | | |
|---|--|
| 1 Total Load 7/1/2016 - 6/30/2017 | (a) Rate periods |
| 2 Total Transmission Costs 7/1/2016 - 6/30/2017 | (b) Usage between 7/1/2016 - 6/30/2017 |
| 3 (1) / (2) | (c.) HMT-1 Line 2 |
| 4 DE 17-049 Schedule HMT-3 page 1 of 8 | (d) (c) x 1000 |
| 5 (2) x (4) | (e) (11) above multiplied by % |
| 6 Total of column (b) | (f) (e) / (d) |
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| 8 (6) / (7) | |
| 9 (8) x 1000 | |
| 10 (9) / (6) | |
| 11 (5) x (10) | |

**Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
Distribution Revenue Calculation**

<u>Rate Class</u>	<u>Distribution Rate Component</u>	<u>Rate</u>	<u>Billing</u>	
			<u>Determinants</u>	<u>Revenues</u>
D	Customer Charge ¹	\$14.54	419,191	\$0
	1st 250 kWh	\$0.04062	94,868,638	\$3,853,438
	Excess 250 kWh	\$0.05274	175,609,256	\$9,261,852
	Off Peak kWh	\$0.04186	1,501,862	\$62,866
	Farm kWh	\$0.04577	1,022,194	\$46,786
	D-6 kWh	\$0.04263	816,103	<u>\$34,790</u>
			Total	\$13,259,732

¹Customer charge is not included in the total revenues as it will not change with the TOU rate offering.

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