

Liberty Utilities (Granite State Electric) d/b/a Liberty Utilities
REP/VMP Rate Design
Procedure for Adjusting Distribution Rates for Capital Investment Allowance
Calculation of Percentage Adjustment to Distribution Rates
Rates Effective May 1, 2019

(1) Increase in Annual Revenue Requirement	\$247,919
(2) Forecasted Base Distribution Revenues	\$40,758,822
(3) Percentage of Adjustment to Distribution Rates	0.61%
(4) Decrease in Annual Revenue Requirement to remove REP & VMP O&M costs included in base rates	(\$552,144)
(5) Forecasted Base Distribution Revenues	\$40,758,822
(6) Percentage of Adjustment to Distribution Rates	-1.35%
(7) Adjusted Percentage of Adjustment to Distribution Rates	-0.74%

- (1) DBS-1 Page 3 Line 66
- (2) Forecasted Base Distribution Revenues for the period of May 1, 2019 - April 30, 2020
- (3) Line (1) ÷ Line (2)
- (4) Approved REP and VMP CY 2017 approved costs in DG 18-034 and offset by tax reform in DG 18-050
- (5) Forecasted Base Distribution Revenues for the period of May 1, 2019 - April 30, 2020
- (6) Line (4) ÷ Line (5)
- (7) Line (3) + Line (6)

Liberty Utilities (Granite State Electric) d/b/a Liberty Utilities
Calculation of Reliability Enhancement Program and Vegetation Management Plan Adjustment Factor
Rates Effective May 1, 2019

(1)	O&M Expense Above Base O&M Expense	\$444,301
(2)	Final Balance of Reconciliation of CY 2017 Incremental O&M Expense Above Base O&M Expense	<u>(\$11,822)</u>
(3)	Reliability Enhancement Program and Vegetation Management Plan Expense	\$432,479
(4)	Estimated kWh deliveries May 1, 2019 - April 30, 2020	918,598,414
(5)	Reliability Enhancement Program and Vegetation Management Plan Adjustment Factor	\$0.00047
(6)	May 2019 portion of CY 2017 O&M expense offset by tax reform in DG 18-050 (\$0.00059 / 12)	<u>\$0.00005</u>
(7)	Adjusted Reliability Enhancement Program and Vegetation Management Plan Adjustment Factor	\$0.00052

- (1) Schedule DBS-1, Page 2, Line 7
- (2) Schedule DBS-3, Page 1, Line 13
- (3) Line (1) + Line (2)
- (4) Per Company forecast
- (5) Line (3) ÷ Line (4), truncated after 5 decimal places
- (6) Approved REP and VMP adjustment factor in DG 18-034 is \$0.00059 per kWh
- (7) Line (5) + Line (6), truncated after 5 decimal places

Liberty Utilities (Granite State Electric) d/b/a Liberty Utilities
REP/VMP Rate Design
Procedure for Adjusting Distribution Rates for Capital Investment Allowance & Incremental O&M Expense
Rates Effective May 1, 2019

Rate Class	Distribution Rate Component	Current Rates (a)	Proposed May 1, 2019 Distribution % Increase/ % (Decrease) (b)	Proposed May 1, 2019 Base Distribution Charges (c)	Proposed May 1, 2019 REP/VMP O&M Adjustment Factor (d)	Proposed May 1, 2019 Total Distribution Charges (e)
D	Customer Charge	\$14.08	-0.74%	\$13.97		\$13.97
	All kWh	\$0.04699	-0.74%	\$0.04663	\$0.00052	\$0.04715
	16 Hour Off Peak kWh	\$0.04057	-0.74%	\$0.04026	\$0.00052	\$0.04078
	Farm kWh	\$0.04435	-0.74%	\$0.04402	\$0.00052	\$0.04454
	D-6 kWh	\$0.04132	-0.74%	\$0.04101	\$0.00052	\$0.04153
D-10	Customer Charge	\$14.08	-0.74%	\$13.97		\$13.97000
	On Peak kWh	\$0.10098	-0.74%	\$0.10023	\$0.00052	\$0.10075
	Off Peak kWh	\$0.00140	-0.74%	\$0.00138	\$0.00052	\$0.00190
G-1	Customer Charge	\$366.85	-0.74%	\$364.13		\$364.13
	Demand Charge	\$7.81	-0.74%	\$7.75		\$7.75
	On Peak kWh	\$0.00503	-0.74%	\$0.00499	\$0.00052	\$0.00551
	Off Peak kWh	\$0.00151	-0.74%	\$0.00149	\$0.00052	\$0.00201
	Credit for High Voltage Delivery > 2.4 k	(\$0.42)	-0.74%	(\$0.42)		(\$0.42)
G-2	Customer Charge	\$61.17	-0.74%	\$60.71		\$60.71
	Demand Charge	\$7.86	-0.74%	\$7.80		\$7.80
	All kWh	\$0.00197	-0.74%	\$0.00195	\$0.00052	\$0.00247
	Credit for High Voltage Delivery > 2.4 k	(\$0.42)	-0.74%	(\$0.42)		(\$0.42)
G-3	Customer Charge	\$14.08	-0.74%	\$13.97		\$13.97
	All kWh	\$0.04462	-0.74%	\$0.04428	\$0.00052	\$0.04480
	Minimum Charge > 25 kVA	\$2.49	-0.74%	\$2.47		\$2.47
M	Luminaire Charge					
	<u>Description</u>					
	HPS 4,000	\$7.39	-0.74%	\$7.33		\$7.33
	HPS 9,600	\$8.97	-0.74%	\$8.90		\$8.90
	HPS 27,500	\$15.77	-0.74%	\$15.65		\$15.65
	HPS 50,000	\$20.54	-0.74%	\$20.38		\$20.38
	HPS 9,600 (Post Top)	\$10.34	-0.74%	\$10.25		\$10.25
	HPS 27,500 Flood	\$15.90	-0.74%	\$15.78		\$15.78
	HPS 50,000 Flood	\$21.96	-0.74%	\$21.79		\$21.79
	Incandescent 1,000	\$9.88	-0.74%	\$9.81		\$9.81
	Mercury Vapor 4,000	\$7.14	-0.74%	\$7.08		\$7.08
	Mercury Vapor 8,000	\$8.70	-0.74%	\$8.63		\$8.63
	Mercury Vapor 22,000	\$16.45	-0.74%	\$16.33		\$16.33
	Mercury Vapor 63,000	\$31.22	-0.74%	\$30.98		\$30.98
	Mercury Vapor 22,000 Flood	\$18.19	-0.74%	\$18.05		\$18.05
	Mercury Vapor 63,000 Flood	\$31.42	-0.74%	\$31.18		\$31.18
	<u>LED Fixtures</u>					
	30 Watt Pole Top	\$10.92	-0.74%	\$10.83		\$10.83
	50 Watt Pole Top	\$11.37	-0.74%	\$11.28		\$11.28
	130 Watt Pole Top	\$13.14	-0.74%	\$13.04		\$13.04
	190 Watt Pole Top	\$17.30	-0.74%	\$17.16		\$17.16
	50 Watt URD	\$12.49	-0.74%	\$12.40		\$12.40
	90 Watt Flood	\$12.60	-0.74%	\$12.50		\$12.50
	130 Watt Flood	\$13.79	-0.74%	\$13.68		\$13.68
	50 Watt Barn	\$4.81	-0.74%	\$4.77		\$4.77
	<u>Pole and Accessory Charge</u>					
	<u>Description</u>					
	Pole -Wood	\$8.72	-0.74%	\$8.65		\$8.65
	Fiberglass - Direct Embedded	\$9.03	-0.74%	\$8.96		\$8.96
	Fiberglass w/Foundation <25 ft	\$15.33	-0.74%	\$15.21		\$15.21
	Fiberglass w/Foundation >=25 ft	\$25.60	-0.74%	\$25.41		\$25.41
	Metal Poles - Direct Embedded	\$18.26	-0.74%	\$18.12		\$18.12
	Metal Poles with Foundation	\$22.03	-0.74%	\$21.86		\$21.86
	All kWh	\$0.00000	-0.74%	\$0.00000	\$0.00052	\$0.00052
T	Customer Charge	\$14.08	-0.74%	\$13.97		\$13.97
	All kWh	\$0.03882	-0.74%	\$0.03853	\$0.00052	\$0.03905
V	Minimum Charge	\$14.08	-0.74%	\$13.97		\$13.97
	All kWh	\$0.04587	-0.74%	\$0.04553	\$0.00052	\$0.04605

- (a) Includes Docket No. DE 16-383 compliance adjustments filed 3/12/19
(b) Schedule DBS-2, Page 2, Line 3
(c) Column (a) x (1+Column (b))
(d) Schedule DBS-2, Page 3, Line 3
(e) Column (c) + Column (d)

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
Typical Residential Customer
Bill Comparison for Rates Effective May 1, 2019

Usage 650 kWh

	Current Rates	Proposed Rates	Current Bill	Proposed Bill	\$ Change	% Change in each Component	Change as a % of Total Bill
Customer Charge	\$14.02	\$13.97	\$14.02	\$13.97	-\$0.05	-0.32%	-0.04%
Distribution Charge							
All kWh (a)	\$0.04678	\$0.04715	\$30.41	\$30.65	\$0.24	0.79%	0.19%
Storm Recovery Adjustment	\$0.00000	\$0.00000	\$0.00	\$0.00	\$0.00	0.00%	0.00%
Transmission Charge	\$0.03460	\$0.02732	\$22.49	\$17.76	-\$4.73	-21.04%	-3.82%
Stranded Cost Charge	(\$0.00095)	(\$0.00106)	-\$0.62	-\$0.69	-\$0.07	11.19%	-0.06%
System Benefits Charge	\$0.00535	\$0.00535	\$3.48	\$3.48	\$0.00	0.00%	0.00%
Electricity Consumption Tax	\$0.00000	\$0.00000	\$0.00	\$0.00	\$0.00	0.00%	0.00%
Subtotal Retail Delivery Services	<u>\$0.08578</u>	<u>\$0.07876</u>	<u>\$69.78</u>	<u>\$65.17</u>	<u>-\$4.60</u>	<u>-6.60%</u>	<u>-3.72%</u>
Default Service Charge	<u>\$0.08299</u>	<u>\$0.08299</u>	<u>\$53.94</u>	<u>\$53.94</u>	<u>\$0.00</u>	<u>0.00%</u>	<u>0.00%</u>
Total Bill			\$123.72	\$119.12	-\$4.60	-3.72%	-3.72%

\$ increase in 650 kWh Total Residential Bill	-\$4.60
% increase in 650 kWh Total Residential Bill	-3.72%

(a) Includes Docket No. DE 16-383 rate design compliance and step adjustment filed 3/12/19, REP/VMP filed 3/15/19, and Retail Rate filed 3/26/19