

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty
Project List
In Service as of December 31, 2021

<u>Att #</u>	<u>2021 Project #</u>	<u>Project Description</u>	<u>Priority</u>	<u>Budget</u>	<u>Total In Service \$</u>	<u>FERC</u>	<u>Book Rate</u>	<u>Book Amt</u>	<u>MACRS</u>	<u>Tax Amt</u>
2	8830-1958	Install Service to Tuscan Village South	3. Growth	\$1,000,000	\$1,235,243	364	3.64%	\$44,963	3.75%	\$46,322
3	8830-2069	Golden Rock Feeder 19L2	3. Growth	\$2,100,000	\$1,523,493	364	3.64%	\$55,455	3.75%	\$57,131
4	8830-2086	Lebanon Pole Pile	5. Mandated	\$652,750	\$345,099	361	2.39%	\$8,248	3.75%	\$12,941
5	8830-2107	General Equipment Blanket	5. Discretionary	\$50,000	\$188,456	394	4.17%	\$7,859	3.75%	\$7,067
6	8830-2110	Street Light Blanket	2. Mandated	\$125,000	\$98,979	373	3.67%	\$3,633	3.75%	\$3,712
7	8830-2111	Public Requirements Blanket	2. Mandated	\$520,000	\$308,503	364	3.64%	\$11,230	3.75%	\$11,569
8	8830-2112	Damage/Failure Blanket	2. Mandated	\$1,500,000	\$2,022,586	364	3.64%	\$73,622	3.75%	\$75,847
9	8830-2113	Distribution Asset Replacement Blanket	2. Mandated	\$200,000	\$296,406	364	3.64%	\$10,789	3.75%	\$11,115
10	8830-2114	Third Party Attachment Blanket	2. Mandated	\$125,000	\$164,315	364	3.64%	\$5,981	3.75%	\$6,162
11	8830-2121	Distribution Reliability Blanket	2. Mandated	\$161,000	\$174,854	364	3.64%	\$6,365	3.75%	\$6,557
12	8830-2124	LED Street Light Conversion	2. Mandated	\$125,000	\$387,666	373	3.67%	\$14,227	3.75%	\$14,537
13	8830-2125	IT Systems & Equipment Blanket	5. Discretionary	\$3,329,840	\$379,187	303	20.00%	\$75,837	3.75%	\$14,219
14	8830-2146	Bare Conductor Replacement Program	4. Regulatory Programs	\$1,000,000	\$691,575	364	3.64%	\$25,173	3.75%	\$25,934
15	8830-2180	DTN Weather Upgrade	5. Discretionary	\$226,250	\$182,483	303	20.00%	\$36,497	3.75%	\$6,843
16	8830-2185	Meter Test Board	5. Discretionary	\$300,000	\$248,313	370	5.00%	\$12,416	3.75%	\$9,312
17	8830-2190	Transportation	5. Discretionary	\$1,000,000	\$253,649	392	7.50%	\$19,024	3.75%	\$9,512
18	8830-2191	Meter Purchases	5. Discretionary	\$250,000	\$379,368	370	5.00%	\$18,968	3.75%	\$14,226
19	8830-2192	Transformer Purchases	2. Mandated	\$420,000	\$639,262	368	3.51%	\$22,438	3.75%	\$23,972
20	8830-2197	Salem Garage	5. Discretionary	\$700,000	\$667,641	361	2.39%	\$15,957	3.75%	\$25,037
Total					\$10,187,080			\$468,681		\$382,015

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

Line	Description	Software	Structures/ Improvements	Poles, Towers, and Fixtures	Line Transformers	Meters	Street Lighting	Transportation	Tools, Shop and Garage Equip	Total
	<i>FERC Account</i>	303	361	364	368	370	373	392	394	
1	Capital Spending	\$ 561,669	\$ 1,012,740	\$ 6,416,976	\$ 639,262	\$ 627,681	\$ 486,646	\$ 253,649	\$ 188,456	\$ 10,187,080
2										
3	Deferred Tax Calculation									
4	Tax Method	MACRS20	MACRS20	MACRS20	MACRS20	MACRS20	MACRS20	MACRS20	MACRS20	
5	Tax Depreciation Rate	3.75%	3.75%	3.75%	3.75%	3.75%	3.75%	3.75%	3.75%	
6										
7	Bonus Depreciation @ 0.00%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
8										
9	Tax Basis	\$ 561,669	\$ 1,012,740	\$ 6,416,976	\$ 639,262	\$ 627,681	\$ 486,646	\$ 253,649	\$ 188,456	\$ 10,187,080
10	MACRS Depreciation	\$ 21,063	\$ 37,978	\$ 240,637	\$ 23,972	\$ 23,538	\$ 18,249	\$ 9,512	\$ 7,067	\$ 382,015
11										
12	Tax Depreciation - Federal	\$ 21,063	\$ 37,978	\$ 240,637	\$ 23,972	\$ 23,538	\$ 18,249	\$ 9,512	\$ 7,067	\$ 382,015
13	Tax Depreciation - State	\$ 21,063	\$ 37,978	\$ 240,637	\$ 23,972	\$ 23,538	\$ 18,249	\$ 9,512	\$ 7,067	
14										
15	Book Depreciation Rate	33.33%	2.39%	3.64%	3.51%	5.00%	3.67%	7.50%	4.17%	
16	Book Depreciation	\$ 187,204	\$ 24,204	\$ 233,578	\$ 22,438	\$ 31,384	\$ 17,860	\$ 19,024	\$ 7,859	\$ 543,551
17										
18	Tax over (under) Book - Federal	\$ (166,142)	\$ 13,773	\$ 7,059	\$ 1,534	\$ (7,846)	\$ 389	\$ (9,512)	\$ (792)	\$ (161,536)
19	Tax over (under) Book - State	(166,142)	13,773	7,059	1,534	(7,846)	389	(9,512)	(792)	(161,536)
20	Deferred Taxes - Federal @ 21.00%	(34,890)	2,892	1,482	322	(1,648)	82	(1,997)	(166)	(33,922)
21	Deferred Taxes - State @ 7.70%	(12,793)	1,061	544	118	(604)	30	(732)	(61)	(12,438)
22	Deferred Tax Balance @ 0.00%	\$ (47,683)	\$ 3,953	\$ 2,026	\$ 440	\$ (2,252)	\$ 112	\$ (2,730)	\$ (227)	\$ (46,361)
23										
24	Rate Base Calculation									
25	Plant in Service	\$ 561,669	\$ 1,012,740	\$ 6,416,976	\$ 639,262	\$ 627,681	\$ 486,646	\$ 253,649	\$ 188,456	\$ 10,187,080
26	Accumulated Depreciation	(187,204)	(24,204)	(233,578)	(22,438)	(31,384)	(17,860)	(19,024)	(7,859)	(543,551)
27	Deferred Tax Balance	47,683	(3,953)	(2,026)	(440)	2,252	(112)	2,730	227	46,361
28	Rate Base	\$ 422,148	\$ 984,583	\$ 6,181,372	\$ 616,384	\$ 598,548	\$ 468,674	\$ 237,356	\$ 180,825	\$ 9,689,889
29										
30	Revenue Requirement Calculation									
31	Return on Rate Base @ 9.36%	\$ 39,513	\$ 92,157	\$ 578,576	\$ 57,694	\$ 56,024	\$ 43,868	\$ 22,216	\$ 16,925	\$ 906,974
32	Property Taxes @3.12%	\$ 11,683	\$ 30,842	\$ 192,922	\$ 19,245	\$ 18,604	\$ 14,626	\$ 7,320	\$ 5,635	\$ 300,878
33	Book Depreciation Expense	187,204	24,204	233,578	22,438	31,384	17,860	19,024	7,859	543,551
34	Annual Revenue Requirement	\$ 238,401	\$ 147,204	\$ 1,005,076	\$ 99,377	\$ 106,013	\$ 76,354	\$ 48,561	\$ 30,419	\$ 1,751,403

Capped at \$1,800,000

Rate of Return Calculation	Portion	After-Tax Cost	Pre-Tax WACC
Equity	52.0%	9.10%	6.49%
Debt	48.0%	5.97%	2.87%
	100.0%		9.36%

Tax
27.08%

**Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty
Distribution Rate Adjustment for 2021 Step Adjustment
Effective August 1, 2022**

1	Increase in Annual Revenue Requirement due to 2022 step increase	\$1,751,403
2	Decrease in Annual Revenue Requirement due to full recovery of recoupment	(\$1,939,679)
3	Decrease in Annual Revenue Requirement due to full recovery of rate case expense	(\$565,077)
4	Total change in annual revenue requirement effective July 1, 2022	<u>(\$753,353)</u>
5	Addition of July 2022 recoupment collected to be refunded	(\$161,640)
6	Addition of July 2022 rate case expenses collected to be refunded	(\$47,090)
7	Total July 2022 Refund	<u>(\$208,730)</u>
8	Total change in annual revenue requirement effective August 1, 2022	(\$962,083)
9	Distribution Revenues per Settlement Agreement in Docket No. DE 19-064	\$48,394,903
10	Percentage of Adjustment to Distribution Rates	-1.99%
11	Total Revenues	\$47,432,820
1	Page 2 line 33	
2	Recoupment amount of \$1,835,991 per 5/26/20 Settlement Agreement, Bates page 032 and \$103,688 per 4/1/21 Step Adjustment filing Bates page 031	
3	Rate case expense of \$553,642 per 5/26/20 Settlement Agreement, Bates pages 032 and \$11,435 per 4/1/21 Step Adjustment filing Bates page 031	
4	Line (1) - Line (2) - Line (3)	
5	1/12 of annual recoupment collected in July 2022	
6	1/12 of annual rate case expenses collected in July 2022	
7	Sum of lines 5 + 6	
8	Sum of lines 4 + 7	
9	Total rev req calculation based on rates effective 7/1/2020 of \$46,590,130, plus approved rev req in DE 21-049 effective 5/1/2021 of \$213,246, plus approved rev req in DE 19-064 effective 11/1/2021 of \$94,064	
10	(Line 11 - line 9) / line 9	
11	Lines 8 + 9	

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
Permanent Rate Design 2021 Step Adjustment
Rates Effective August 1, 2022

<u>Rate Class</u>	<u>Distribution Rate Component</u>	<u>Current Rates</u> (a)	<u>2021 Capital Expenditures Step Adjustment % Increase/ % (Decrease)</u> (b)	<u>Proposed August 1, 2022 Base Distribution Charges</u> (c)	<u>Current REP/VMP Adjustment Factor</u> (d)	<u>August 1, 2022 Rates</u> (e)
D	Customer Charge	\$14.74	0.00%	\$14.74		\$14.74
	All kWh	\$0.06038	-3.01%	\$0.05856	0.00001	\$0.05857
	16 Hour Off Peak kWh	\$0.05213	-3.01%	\$0.05056	0.00001	\$0.05057
	Farm kWh	\$0.05699	-3.01%	\$0.05527	0.00001	\$0.05528
	D-6 kWh	\$0.05310	-3.01%	\$0.05150	0.00001	\$0.05151
D-10	Customer Charge	\$14.74	0.00%	\$14.74		\$14.74
	On Peak kWh	\$0.12809	-2.82%	\$0.12447	0.00001	\$0.12448
	Off Peak kWh	\$0.00172	-2.82%	\$0.00167	0.00001	\$0.00168
D-11	Customer Charge	\$14.74		\$14.74		\$14.74
	Off Peak	\$0.03955		\$0.03411	0.00001	\$0.03412
	Mid Peak	\$0.05820		\$0.05019	0.00001	\$0.05020
	Critical Peak	\$0.10548		\$0.09096	0.00001	\$0.09097
EV	Customer Charge	\$11.35		\$11.35		\$11.35
	Off Peak	\$0.03955		\$0.03411	0.00001	\$0.03412
	Mid Peak	\$0.05820		\$0.05019	0.00001	\$0.05020
	Critical Peak	\$0.10548		\$0.09096	0.00001	\$0.09097
G-1	Customer Charge	\$444.70	-2.14%	\$435.18		\$435.18
	Demand Charge	\$9.43	-2.14%	\$9.22		\$9.22
	On Peak kWh	\$0.00603	-2.14%	\$0.00590	0.00001	\$0.00591
	Off Peak kWh	\$0.00178	-2.14%	\$0.00174	0.00001	\$0.00175
	Credit for High Voltage Delivery >	(\$0.50)	-2.14%	(\$0.49)		(\$0.49)
G-2	Customer Charge	\$74.11	-2.14%	\$72.52		\$72.52
	Demand Charge	\$9.48	-2.14%	\$9.27		\$9.27
	All kWh	\$0.00239	-2.14%	\$0.00233	0.00001	\$0.00234
	Credit for High Voltage Delivery >	(\$0.50)	-2.14%	(\$0.49)		(\$0.49)
G-3	Customer Charge	\$17.03	-2.14%	\$16.66		\$16.66
	All kWh	\$0.05398	-2.14%	\$0.05282	0.00001	\$0.05283
M	Luminaire Charge					
	<u>Description</u>					
	HPS 4,000	\$8.72	-2.14%	\$8.53		\$8.53
	HPS 9,600	\$10.08	-2.14%	\$9.86		\$9.86
	HPS 27,500	\$16.73	-2.14%	\$16.37		\$16.37
	HPS 50,000	\$20.81	-2.14%	\$20.36		\$20.36
	HPS 9,600 (Post Top)	\$11.83	-2.14%	\$11.57		\$11.57

Rate Class	Distribution Rate Component	2021 Capital Expenditures		Proposed August 1, 2022		August 1, 2022
		Current	Step Adjustment	Base	REP/VMP	
		Rates	% Increase/ % (Decrease)	Distribution Charges	Adjustment Factor	Rates
		(a)	(b)	(c)	(d)	(e)
	HPS 27,500 Flood	\$16.91	-2.14%	\$16.54		\$16.54
	HPS 50,000 Flood	\$22.58	-2.14%	\$22.09		\$22.09
	Incandescent 1,000	\$11.19	-2.14%	\$10.95		\$10.95
	Mercury Vapor 4,000	\$7.74	-2.14%	\$7.57		\$7.57
	Mercury Vapor 8,000	\$8.69	-2.14%	\$8.50		\$8.50
	Mercury Vapor 22,000	\$15.54	-2.14%	\$15.20		\$15.20
	Mercury Vapor 63,000	\$26.26	-2.14%	\$25.69		\$25.69
	Mercury Vapor 22,000 Flood	\$17.78	-2.14%	\$17.39		\$17.39
	Mercury Vapor 63,000 Flood	\$34.44	-2.14%	\$33.70		\$33.70
LED-1	<u>LED-1 Fixtures</u>					
	30 Watt Pole Top	\$5.66	-2.14%	\$5.53		\$5.53
	50 Watt Pole Top	\$5.90	-2.14%	\$5.77		\$5.77
	130 Watt Pole Top	\$9.10	-2.14%	\$8.90		\$8.90
	190 Watt Pole Top	\$17.44	-2.14%	\$17.06		\$17.06
	30 Watt URD	\$13.18	-2.14%	\$12.89		\$12.89
	90 Watt Flood	\$8.96	-2.14%	\$8.76		\$8.76
	130 Watt Flood	\$10.31	-2.14%	\$10.08		\$10.08
	30 Watt Caretaker	\$5.07	-2.14%	\$4.96		\$4.96
	<u>Rates M, LED-1 & LED-2 Pole Accessory Charge</u>					
	Pole -Wood	\$9.87	-2.14%	\$9.66		\$9.66
	Fiberglass - Direct Embedded	\$10.28	-2.14%	\$10.06		\$10.06
	Fiberglass w/Foundation <25 ft	\$17.35	-2.14%	\$16.98		\$16.98
	Fiberglass w/Foundation >=25 ft	\$29.01	-2.14%	\$28.39		\$28.39
	Metal Poles - Direct Embedded	\$20.68	-2.14%	\$20.24		\$20.24
	Metal Poles with Foundation	\$24.95	-2.14%	\$24.42		\$24.42
	<u>Rate M, LED-1</u>					
	All kWh	\$0.04152	-2.14%	\$0.04063	0.00001	\$0.04064
	<u>Rate LED-2</u>	\$0.04152	-2.14%	\$0.04063	0.00001	\$0.04064
T	Customer Charge	\$14.74	0.00%	\$14.74		\$14.74
	All kWh	\$0.04871	-2.63%	\$0.04743	0.00001	\$0.04744
V	Minimum Charge	\$17.03	-2.14%	\$16.66		\$16.66
	All kWh	\$0.05552	-2.14%	\$0.05433	0.00001	\$0.05434

Rates D-11 and EV are calculated through the TOU model approved in Docket DE 17-189.

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty
Bill Calculation July 1, 2022, Rates Compared to August 1, 2022, All Rate Changes

Usage	650	kWh				
	Current Rates	August 1, 2022 Proposed Rates*	Current Bill	August 1, 2022 Proposed Bill*		
Customer Charge	\$14.74	\$14.74	\$14.74	\$14.74		
Distribution Charge						
All kWh	\$0.06039	\$0.05857	\$39.25	\$38.07		
Storm Recovery Adjustment	\$0.00000	\$0.00000	\$0.00	\$0.00		
Transmission Charge	\$0.03635	\$0.03635	\$23.63	\$23.63		
Stranded Cost Charge	(\$0.00051)	(\$0.00051)	(\$0.33)	(\$0.33)		
System Benefits Charge	\$0.00678	\$0.00678	\$4.41	\$4.41		
Electricity Consumption Tax	\$0.00000	\$0.00000	<u>\$0.00</u>	<u>\$0.00</u>		
Subtotal Retail Delivery Services			\$81.70	\$80.51		
Energy Service Charge	\$0.11119	\$0.22228	<u>\$72.27</u>	<u>\$144.48</u>		
		Total Bill	\$153.97	\$225.00		
		Monthly \$ increase in 650 kWh Total Residential Bill		\$71.03		
		Monthly % increase in 650 kWh Total Residential Bill		46.13%		

*Proposed bill impacts include the rate change request in DE 22-035 and the approved rate change in Docket DE 22-024