

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty
Docket No. DE 23-_____

Witness: Warshaw

Schedules

Schedule JDW-1	Summary of Transmission Expenses Estimated for 2023
Schedule JDW-2	Summary of ISO Tariff Section II Charges Estimated for 2023
Schedule JDW-3	Summary of System Restoration and Reactive Supply Charges Estimated for 2023
Schedule JDW-4	Summary of New England Power Schedule No. 21 Charges Estimated for 2023

Summary of Transmission Expenses Estimated For the Year 2023

ISO-NE Tariff Schedule 21 NEP LNS Tariff Charges

1	Local Network Service (Monthly Demand Charges)	\$5,993,112
2	Other NEP Charges	<u>1,412,562</u>
Subtotal NEP Charges		<u>\$7,405,673</u>

ISO-NE OATT Tariff Section II Charges

3	OATT Schedule 9 - Regional Network Service Charges	\$19,748,156
4	OATT Schedule 1 - Scheduling, System Control & Dispatch	244,150
5	OATT Schedule 2 - Reactive Supply and Voltage Control Service	97,371
6	OATT Schedule 16 - System Restoration and Planning Service	186,209
	OATT Schedule 17 - IROL-CIP	2,285
Subtotal ISO-NE Tariff Section II Charges		<u>\$20,278,171</u>

ISO-NE Tariff Section IV.A - Administrative Charges

7	ISO-NE Schedule 1 - Scheduling & Dispatch Service	\$342,555
8	ISO-NE Schedule 5 - NESCOE Budget	<u>11,728</u>
Subtotal ISO-NE Tariff Section IV.A Charges		<u>\$354,283</u>

9	Subtotal of ISO-NE Tariff Charges	<u>\$20,632,454</u>
10	Total Estimated Expenses Flowing Through Current Rates	<u>\$28,038,128</u>

Line 1 = JDW-4: Column (1), Line 13

Line 2 = JDW-4: Sum of Column (2) thru (6), Line 13

Line 3 = JDW-2, page 1: Column (2), Line 13

Line 4 = JDW-2, page 1: Column (3), Line 13

Line 5 = JDW-2, page 1: Column (5), Line 13

Line 6 = JDW-2, page 1: Column (6), Line 13

Line 7 = JDW-2, page 2: Column (2), Line 13

Line 8 = JDW-2, page 2: Column (3), Line 13

Line 9 = Sum of Line 3 thru Line 8

Line 10 = Sum of Line 1 thru Line 8

**Summary of Estimated Transmission Expenses
2022 vs. 2023 Filing Years**

		1 2022 Retail Filing	2 2023 Estimate	3 Yr/Yr Incr/(Decr)
ISO-NE Tariff Schedule 21 NEP LNS Tariff Charges				
1	Local Network Service (Monthly Demand Charges)	\$ 5,410,449	\$ 5,993,112	\$ 582,663
2	Other NEP Charges	1,209,265	1,412,562	203,297
	Subtotal	\$ 6,619,714	\$ 7,405,673	\$ 785,959
ISO-NE OATT Tariff Section II Charges				
3	OATT Schedule 9 - Regional Network Service Charges	\$ 21,416,682	\$ 19,748,156	\$ (1,668,526)
4	OATT Schedule 1 - Scheduling, System Control & Dispatch	280,284	244,150	(36,135)
6	OATT Schedule 2 - Reactive Supply and Voltage Control Service	116,459	97,371	(19,088)
5	OATT Schedule 16 - System Restoration and Planning Service	210,598	186,209	(24,389)
	OATT Schedule 17 - IROL-CIP		2,285	2,285
	Subtotal	\$ 22,024,023	\$ 20,278,171	\$ (1,745,852)
ISO-NE Tariff Section IV.A - Administrative Charges				
7	ISO-NE Schedule 1 - Scheduling & Dispatch Service	\$ 345,147	\$ 342,555	\$ (2,592)
8	ISO-NE Schedule 5 - NESCOE Budget	13,248	11,728	(1,520)
	Subtotal	\$ 358,395	\$ 354,283	\$ (4,111)
9	Subtotal of ISO-NE Tariff Charges	\$ 22,382,418	\$ 20,632,454	\$ (1,749,964)
10	Total Estimated Expenses	\$ 29,002,132	\$ 28,038,128	\$ (964,004)

**Summary of ISO-NE Tariff Section II Charges
Estimated For the Year 2023**

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	Monthly PTF kW Load	OATT Schedule 9 - Regional Network Service Charges	OATT Schedule 1 - Scheduling, System Control & Dispatch	OATT Schedule 16 - System Restoration and Planning Service	OATT Schedule 2 - Reactive Supply and Voltage Control Service	OATT Schedule 17 - IROL-CIP	ISO-NE OATT Tariff Section II Charges	ISO-NE Schedule 1 - Scheduling & Dispatch Service	ISO-NE Schedule 5 - NESCOE Budget
1 January	130,939	1,545,571	19,108	14,574	7,621	179	1,587,052	26,810	918
2 February	129,580	1,529,530	18,910	14,422	7,542	177	1,570,580	26,532	908
3 March	119,093	1,405,744	17,379	13,255	6,931	163	1,443,472	24,384	835
4 April	104,352	1,231,745	15,228	11,614	6,073	143	1,264,803	21,366	732
5 May	153,431	1,811,061	22,390	17,077	8,930	210	1,859,668	31,415	1,076
6 June	146,815	1,732,967	21,425	16,341	8,545	200	1,779,478	30,060	1,029
7 July	184,932	2,182,891	26,987	20,583	10,763	253	2,241,477	37,865	1,296
8 August	196,590	2,320,499	28,689	21,880	11,442	268	2,382,778	40,252	1,378
9 September	141,382	1,668,838	20,632	15,736	8,228	193	1,713,627	28,948	991
10 October	114,306	1,349,239	16,681	12,722	6,653	156	1,385,451	23,404	801
11 November	125,588	1,482,409	18,327	13,978	7,309	172	1,522,195	25,714	880
12 December	126,033	1,487,662	18,392	14,027	7,335	172	1,527,589	25,805	883
13 12-Mo Total		\$19,748,156	\$244,150	\$186,209	\$97,371	\$2,285	\$20,278,171	\$342,555	\$11,728

Line 1-12: Column (1) = 2022 Monthly Coincident Network Load of LL

Line 1-12: Column (2) = January 1, 2023 OATT Schedule 9 RNS Rate * Column (1) / 12

Line 1-12: Column (3) = Current OATT Schedule 1 Rate * Column (1) / 12

Line 1-12: Column (4) = JDW-3, Line 8 * Column (1)

Line 1-12: Column (5) = JDW-3, Line 4 * Column (1)

Line 1-12: Column (5) = JDW-3, Line 33 * Column (1)

Line 1-12: Column (7) = Sum of Columns (2) thru (6)

Line 1-12: Column (8) = Current ISO-NE Schedule 1 Rate * Column (1)

Line 1-12: Column (9) = Current ISO-NE Schedule 5 Rate * Column (1)

Line 1-12: Column (10) = Sum of Columns (6) thru (8)

Line 13 = Sum of Line 1 thru Line 12

2023 RNS Rate= \$ **141.64499** /kW-YR

Rate = \$ **1.75118** /kW-YR

Rate = \$ **0.11130** /kW-Month

Rate = \$ **0.05820** /kW-Month

Rate = \$ **0.00137** /kW-Month

Rate = \$ 0.20475 kW-month

Rate = \$ 0.00701 kW-month

Summary of Reactive Power & Black Start Costs Estimated For the Year 2023

Section I: Development of ISO-NE Schedule 2 Costs

1	Granite State Total ISO-NE Schedule 2 Costs	\$137,381
2	2022 Granite State Peak Load (KW)	196,590
3	Estimated Rate / KW-Yr	\$0.6988
4	Estimated Rate / KW-Mo	\$0.0582

Section II: Development of ISO-NE Schedule 16 Costs

5	Granite State Total ISO-NE Schedule 16 Settlement Costs	\$262,665
6	2022 Granite State Peak Load (KW)	196,590
7	Estimated Rate / KW-Yr	\$1.3361
8	Estimated Rate / KW-Mo	\$0.1113

Section III: Development of ISO-NE Schedule 17 Costs

9	Granite State Total ISO-NE Schedule 17 Settlement Costs	\$666
10	Granite State Q4 2022 Average Peak Load (kW)	121,976
11	Estimated Rate / KW-Month	\$0.0014

Line 1 = Granite State ISO-NE Schedule 2 costs for the 12 months ending December 2022

Line 2 = Granite State Peak Load in 2022

Line 3 = Line 1 / Line 2

Line 4 = Line 3 / 12

Line 5 = ISO Schedule 16 Settlement Reports for the 12 months ending December 2022

Line 6 = Line 2

Line 7 = Line 5 / Line 6

Line 8 = Line 7 / 12

**Summary of New England Power - Schedule No. 21 Charges
Estimated For the Year 2023**

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	
Period	Monthly Regional Network Load	Local Network Service Charge	Load Dispatch Surcharge	Specific Distribution Surcharge	Transformer Surcharge	Meter Surcharge	Maintenance Service Credit	NEP Costs
1 January	130,939	469,045	3,749	17,128	97,662	1,013	(2,081)	586,516
2 February	129,580	464,177	3,710	17,128	97,662	1,013	(2,081)	581,609
3 March	119,093	426,611	3,410	17,128	97,662	1,013	(2,081)	543,742
4 April	104,352	373,806	2,988	17,128	97,662	1,013	(2,081)	490,516
5 May	153,431	549,615	4,393	17,128	97,662	1,013	(2,081)	667,730
6 June	146,815	525,916	4,203	17,128	97,662	1,013	(2,081)	643,841
7 July	184,932	662,457	5,295	17,128	97,662	1,013	(2,081)	781,474
8 August	196,590	704,218	5,628	17,128	97,662	1,013	(2,081)	823,568
9 September	141,382	506,454	4,048	17,128	97,662	1,013	(2,081)	624,224
10 October	114,306	409,463	3,273	17,128	97,662	1,013	(2,081)	526,458
11 November	125,588	449,877	3,596	17,128	97,662	1,013	(2,081)	567,195
12 December	126,033	451,471	3,608	17,128	97,662	1,013	(2,081)	568,801
13 12- Mo Total		\$5,993,112	\$47,899	\$205,531	\$1,171,942	\$12,162	-\$24,972	\$7,405,673

Line 1-12: Column (1) = 2022 Monthly Coincident Network Load of LU

Line 1-12: Column (2) = January 1, 2023 Schedule 21-NEP LNS Rate * Column (1) / 12

2023 LNS Rate= \$ **42.99** /kW-YR

Line 1-12: Column (3) = January 1, 2023 Schedule 21-NEP Load Dispatch Surcharge Rate * Column (1) / 12

2023 LDS Rate= \$ **0.02863** /kW-Month

Line 1-12: Column (4) = 24,468 kW & \$0.70 per NEP Tariff as of June 1, 2021

Line 1-12: Column (5) = 203,496 kW & \$0.47992 per NEP Tariff as of June 1, 2022

Line 1-12: Column (6) = 17 meters * \$59.6161 per meter per NEP Tariff as of June 1, 2022

Line 1-12: Column (7) Per the Integrated Facilities Supplement dated July 3, 2012 between NEP and Granite State

Line 1-12: Column (8) = Sum of Columns (2) through (7)