

**STATE OF NEW HAMPSHIRE  
BEFORE THE  
PUBLIC UTILITIES COMMISSION**

Docket No. DE 21-xxx

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

Annual Retail Rate

**DIRECT TESTIMONY  
OF  
JOHN D. WARSHAW**

March 24, 2021



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1   **I.   INTRODUCTION AND QUALIFICATIONS**

2   **Q.   Please state your full name and business address.**

3   A.   My name is John D. Warshaw, and my business address is 15 Buttrick Road,  
4       Londonderry, New Hampshire.

5   **Q.   By whom are you employed and in what capacity?**

6   A.   I am the Manager, Electric Supply for Liberty Utilities Service Corp., which provides  
7       services to Liberty Utilities (Granite State Electric) Corp., d/b/a Liberty (“Liberty” or  
8       “the Company”). I oversee the procurement of power for Energy Service for Liberty as  
9       well as the procurement of renewable energy certificates (“RECs”). I am also responsible  
10      for monitoring costs and activities relative to transmission service provided to the  
11      Company.

12   **Q.   Please describe your educational background.**

13   A.   I graduated from the State University of New York Maritime College in 1977 with a  
14      Bachelor of Science in Nuclear Science. I received a Master’s in Business  
15      Administration from Northeastern University in 1986. In 1992, I earned a Master of Arts  
16      in Energy and Environmental Management from Boston University.

17   **Q.   What is your professional background?**

18   A.   In November 2011, I joined the Company as Manager, Electric Supply. Prior to my  
19      employment at Liberty Utilities Service Corp., I was employed by National Grid USA  
20      Service Company (“National Grid”) as a Principal Analyst in Energy Supply – New  
21      England from 2000 to 2010. In that position I conducted a number of solicitations for

1 wholesale power to meet the needs of National Grid's New England distribution  
2 companies. I also administered both short-term and long-term power purchase  
3 agreements for National Grid's New England distribution companies. Prior to my  
4 employment at National Grid, I was employed at COM/Energy (now NSTAR) from 1992  
5 to 2000. From 1992 to 1997, I was a Rate Analyst in Regulatory Affairs at COM/Energy  
6 responsible for supporting state and federal rate filings. In 1997, I transferred to  
7 COM/Electric to work in Power Supply Administration.

8 **Q. Have you previously testified before the New Hampshire Public Utilities**  
9 **Commission ("Commission")?**

10 A. Yes. I most recently provided written and oral testimony before the Commission in  
11 Docket No. DE 20-053 on December 11, 2020.

12 **Q. Have you testified before any other state regulatory agencies?**

13 A. Yes. I have testified before both the Massachusetts Department of Public Utilities and  
14 the Rhode Island Public Utilities Commission regarding electric supply and renewable  
15 portfolio procurement activities.

16 **II. PURPOSE OF TESTIMONY**

17 **Q. What is the purpose of your testimony?**

18 A. My testimony addresses the estimated 2021 transmission expenses for Liberty. First, I  
19 will summarize the various transmission services provided to Liberty and describe how  
20 Liberty pays for such services. Second, I will provide testimony supporting the forecast  
21 of transmission expenses that Liberty expects to incur in 2021. As described more fully

1 in Section IV of my testimony, the Company forecasts an increase of \$3,659,490 in  
2 prospective transmission expenses for calendar year 2021 as compared to the forecast  
3 provided for calendar year 2020 in Docket No. DE 20-040.

4 **III. SUMMARY OF TRANSMISSION SERVICES PROVIDED TO LIBERTY**

5 **Q. Please summarize what transmission services Liberty receives from ISO New**  
6 **England Inc. (the “ISO” or “ISO-NE”) under rate schedules approved by the**  
7 **Federal Energy Regulatory Commission (“FERC”).**

8 A. Liberty receives transmission services under the ISO New England Inc. Transmission,  
9 Markets and Services Tariff (“ISO Tariff”) as follows:

- 10 1. Section II (Schedules 1, 2, 9 and 16) of the ISO Tariff provides for Regional  
11 Network Service (“RNS”);
- 12 2. Section IV.A – ISO Funding Mechanisms provides for the recovery of ISO’s  
13 Administrative Services; and
- 14 3. Section II, Schedule 21 of the ISO Tariff provides for Local Network Service  
15 (“LNS”) from the New England Power Company (“NEP”).

16 **Q. Please describe further the types of transmission services that are billed to Liberty**  
17 **under the ISO Tariff.**

18 A. New England’s transmission rates utilize a highway/local pricing structure. That is,  
19 Liberty receives regional transmission service over “highway” transmission facilities  
20 under Section II of the ISO Tariff (also known as RNS), and receives local transmission  
21 service over local transmission facilities under Schedule 21 of the ISO Tariff (also known

1 as LNS). Additionally, a number of administrative services are provided by ISO-NE  
2 under Section IV.A of the ISO Tariff.

3 **A. Explanation of ISO Tariff Services, Rates, and Charges**

4 **Q. Please explain the services provided to Liberty under the ISO Tariff.**

5 A. Section II of the ISO Tariff provides access over New England's looped transmission  
6 facilities, more commonly known as Pool Transmission Facilities ("PTF") or bulk  
7 transmission facilities. In addition, the ISO Tariff provides for Ancillary Services (Black  
8 Start, Reactive Power, and Scheduling, System Control, and Dispatch Services) as  
9 described more fully later in this testimony.

10 **Q. How are the costs for RNS recovered?**

11 A. The ISO Tariff RNS Rate ("RNS Rate") (Section II - Schedule 9 of the ISO Tariff)  
12 recovers the RNS costs, and is determined annually based on an aggregation of the  
13 transmission revenue requirements of each of the Participating Transmission Owners  
14 ("PTO") in New England, calculated in accordance with a FERC-approved formula in a  
15 single, "postage stamp" rate in New England. FERC opened Docket No. EL16-19 to  
16 investigate the reasonableness of the formula rates and protocols used to develop both  
17 RNS and LNS. A Settlement Agreement was reached and filed with FERC on June 15,  
18 2020 (FERC Docket No. ER20-2054) resolving all issues regarding the RNS and LNS  
19 formula rates. The filing requesting an order of approval by November 1, 2020. FERC  
20 issued its order approving the settlement on December 28, 2020. A compliance filing  
21 was made on January 27, 2021, setting the effective date of the formula rate revisions to  
22 be January 1, 2022. Consistent with the Settlement Agreement is the establishment of a

1 more transparent transmission rate review protocols. These protocols will be in effect on  
2 June 15, 2021, with an initial technical session to be scheduled by the end of August  
3 giving interested parties sufficient time to review and challenge the rates to be effective  
4 on January 1, 2022.

5 **Q. Please describe the ISO-NE System Restoration and Planning Service, Reactive**  
6 **Supply and Voltage Control, and Scheduling, System Control, and Dispatch**  
7 **Services that are included in the ISO Tariff.**

8 A. ISO-NE System Restoration and Planning Service (Section II - Schedule 16 of the ISO  
9 Tariff), also known as Black Start Service, is necessary to ensure the continued reliable  
10 operation of the New England transmission system. This service allows for the payment  
11 to generators who have the capability of supplying load and the ability to re-start without  
12 an outside electrical supply to re-energize the transmission system following a system-  
13 wide blackout.

14 Reactive Supply and Voltage Control (Section II - Schedule 2 of the ISO Tariff), also  
15 known as Reactive Power Service, is necessary to maintain transmission voltages within  
16 acceptable limits on the ISO-NE transmission system and allows for the payment to  
17 generators or other facilities that have the capability to produce or absorb reactive power.

18 Lastly, Scheduling, System Control, and Dispatch Service (“Scheduling & Dispatch  
19 Service”) consists of the services required to schedule the movement of power through,  
20 out of, within, or into the ISO-NE Control Area over the PTF and to maintain System

1 Control. Scheduling & Dispatch Service also provides for the recovery of certain charges  
2 that reflect expenses incurred in the operation of satellite dispatch centers.

3 **Q. How are the ISO-NE charges for Black Start and Reactive Power assessed to**  
4 **Liberty?**

5 A. ISO-NE assesses charges for Black Start and Reactive Power Services to Liberty each  
6 month based on Liberty's proportionate share of its network load to ISO-NE's total  
7 network load.

8 **Q. How are the charges for Scheduling & Dispatch Service assessed to Liberty?**

9 A. Charges for Scheduling & Dispatch Service are assessed to Liberty through three  
10 separately charged tariffed services.

11 The first charge is for the expenses incurred by ISO-NE in providing these services and is  
12 recovered under Schedule 1 of Section IV.A of the ISO Tariff. These costs are allocated  
13 to Liberty each month based on an annually filed FERC-approved fixed rate times  
14 Liberty's monthly Network Load.

15 The second charge is for the costs incurred by the individual transmission owners in  
16 providing Scheduling & Dispatch Service over PTF facilities, including the costs of  
17 operating local control centers, and are recovered under Section II, Schedule 1 of the ISO  
18 Tariff. These costs are allocated to Liberty each month based on a formula rate that is  
19 determined each year based on the prior year's costs incurred times Liberty's monthly  
20 Network Load.



1 The final charge is for the cost of Scheduling & Dispatch Service for transmission service  
2 over transmission facilities other than PTF that are charged under Schedule 21 of the ISO  
3 Tariff. Thus, the three types of Scheduling & Dispatch costs are similar, but are charged  
4 to Liberty through three different tariff mechanisms.

5 **Q. What additional administrative services and/or charges flow through to Liberty**  
6 **under Section IV.A of the ISO Tariff?**

7 A. Liberty also incurs charges pursuant to Section IV.A, Schedule 5 of the ISO Tariff.  
8 Schedule 5 provides for the collection of the New England States Committee on  
9 Electricity's ("NESCOE") annual budget.

10 **Q. How are the ISO Tariff Administrative Services charges assessed?**

11 A. ISO-NE assesses the charges in Section IV.A based upon stated rates pursuant to the ISO  
12 Tariff. These stated rates are adjusted annually when ISO-NE files a revised budget and  
13 cost allocation proposal to become effective January 1 each year. Liberty is charged the  
14 stated rate for these services as part of ISO-NE's monthly billing process, based on its  
15 Network Load for Section IV.A Schedule 1 and Schedule 5 charges.

16 **B. Explanation of Schedule 21 NEP Tariff Services, Charges, and Credits**

17 **Q. What services are provided to Liberty under Schedule 21 of the ISO Tariff?**

18 A. Schedule 21 provides service over NEP's local, non-highway transmission facilities,  
19 considered non-PTF facilities ("Non-PTF"). The service provided over the Non-PTF is  
20 referred to as LNS. NEP also provides metering, transformation and certain ancillary

1 services to Liberty to the extent such services are required by Liberty and not otherwise  
2 provided under the ISO Tariff.

3 **Q. Please explain the metering and transformation services provided by NEP.**

4 A. NEP separately surcharges the appropriate customers for these services. NEP provides  
5 metering service when a customer uses NEP-owned meter equipment to measure the  
6 delivery of transmission service. NEP provides transformation service when a customer  
7 uses NEP-owned transformation facilities to step down voltages from 69 kV or greater to  
8 a distribution voltage.

9 **Q. Are there any other transmission services for which NEP assesses charges to**  
10 **Liberty?**

11 A. Yes. Liberty relies on the specific distribution facilities of NEP's affiliate, Massachusetts  
12 Electric Company ("Mass Electric"), which provides for NEP's use of such facilities  
13 pursuant to the Integrated Facilities provision of NEP's FERC Electric Tariff No. 1  
14 service agreement with Mass Electric. NEP, in turn, uses these specific distribution  
15 facilities to provide transmission service to Liberty. Therefore, Liberty is also subject to  
16 a Specific Distribution Surcharge for its use of these facilities.

17 **Q. What is the credit in Schedule 21 charges that NEP provides to Liberty in its**  
18 **monthly invoice?**

19 A. As a result of National Grid's sale of Liberty in 2012, NEP (a National Grid affiliate)  
20 uses certain distribution facilities of Liberty to provide service to generation customers of  
21 NEP. An Integrated Facilities Supplement to Schedule 21 of the ISO Tariff provides

1 Liberty with a credit in exchange for the continued use by NEP of Liberty's facilities to  
2 serve NEP's generation customers.

3 **IV. ESTIMATE OF LIBERTY'S TRANSMISSION EXPENSES**

4 **Q. Was the forecast for Liberty's transmission and ISO expenses for 2021 prepared by**  
5 **you or under your supervision?**

6 A. Yes. Liberty estimates the total transmission and ISO-NE expenses (including certain  
7 ancillary services) for 2021 to be approximately \$26,891,183, as shown in Schedule  
8 JDW-1, page 1 of 2. This equates to an increase of \$3,659,490 as compared to the  
9 forecast for 2020 provided in Docket No. DE 20-040, as shown on Schedule JDW-1,  
10 page 2 of 2.

11 **Q. How have the ISO Tariff charges for RNS shown on line 3 of Schedule JDW-1 been**  
12 **forecasted?**

13 A. The Company has applied an estimated rate increase to the total RNS rate currently in  
14 effect to reflect the forecast of PTF plant additions across New England, as estimated by  
15 the New England transmission owners, to be included in the annual formula rate effective  
16 June 1, 2021. The estimated rate increase was provided in the PTO Rates Working  
17 Group presentation during the 2020 NEPOOL Reliability and Transmission Committees'  
18 Summer Meeting. The estimated increase of approximately \$8.74 per kW-year in 2021  
19 to the RNS rate is added to the current \$129.26 per kW-year RNS rate to get an estimated  
20 rate of \$138 per kW-year effective June 1, 2021. The current rate of \$129.26 per kW-  
21 year that was effective beginning June 1, 2020, is higher than the \$120.00 per kW-year  
22 estimated in Docket No. DE 20-040 and provided by the PTO Rates Working Group in

1 the summer of 2019. When setting the RNS rates effective June 1, 2020, the Participant  
2 Transmission Owners included true-up adjustments from previous periods and other  
3 adjustments required to provide the transmission owners with the approved revenue  
4 requirements. The combination of current rates with the forecasted increase effective  
5 June 1, 2021, results in an estimated increase of \$2,849,094 as shown in column 3, line 3  
6 of Schedule JDW-1, page 2 of 2. One of the reasons for the estimated increase in costs  
7 for 2021 as compared to what was filed in 2020 is that the actual RNS rates effective  
8 June 1, 2020, were higher than the forecasted rates available at the time of filing and the  
9 transmission owners in New England continue to replace aging equipment and address  
10 reliability issues regarding the delivery of supply from both conventional and renewable  
11 resources.

12 **Q. Schedule JDW-1 also includes estimated ISO-NE charges for Black Start, Reactive**  
13 **Power, and Scheduling and Dispatch. How were these costs forecasted?**

14 A. In estimating the expected costs of the ISO-NE charges, the company used the same  
15 approach it has used in previous filings. The Black Start costs shown on line 5 of  
16 Schedule JDW-1 were derived in two steps. First, as shown in Section II of Schedule  
17 JDW-3, the Company estimated the cost for Black Start Service by, as a starting point,  
18 summing Liberty's actual monthly ISO-NE Black Start expenses for 2020 (line 5). This  
19 estimate was divided by Liberty's 2020 Peak Load to calculate an estimated annual rate,  
20 as shown on line 7. Liberty then calculated a monthly rate (annual rate divided by 12), as  
21 shown on line 8. To obtain the estimate of Black Start costs that would be charged to  
22 Liberty, as shown in column 4 of Schedule JDW-2, page 1, the Company multiplied the

1 monthly rate by Liberty's monthly network load, as shown for each month in column 1 of  
2 Schedule JDW-2, page 1. Using this methodology, the Company estimated an allocation  
3 of \$182,049 for 2021.

4 **Q. How have you estimated Reactive Power costs for Liberty?**

5 A. The estimated Reactive Power costs for Liberty were calculated by using actual Liberty  
6 costs for 2020 as shown in Section I of Schedule JDW-3. The annual rate was  
7 determined by dividing the total Reactive Power costs charged to Liberty (line 1) by  
8 Liberty's peak 2020 Network Load. The monthly rate (annual rate divided by 12) was  
9 then multiplied by Liberty's monthly network load, as shown in column 1 of Schedule  
10 JDW-2, page 1, to determine the estimated charges for Reactive Power Service shown in  
11 column 5 of that same schedule. Using this methodology, the Company estimated an  
12 allocation of \$128,922 for 2021.

13 **Q. How did you forecast the Scheduling and Dispatch costs shown on line 4 of Schedule**  
14 **JDW-1, page 1?**

15 A. My estimate is shown in column 3 of Schedule JDW-2, page 1. This amount was derived  
16 by using the currently effective OATT Schedule 1 rate of \$1.74530 per kW-year, divided  
17 by 12, and further multiplied by Liberty's monthly network loads for 2020 as shown in  
18 column 1 of Schedule JDW-2, page 1.

1 **Q. Have you included any Reliability Must Run (“RMR”) contract charges to Liberty**  
2 **for 2020?**

3 A. No. Reliability Must Run Agreements guarantee payments to generators that are needed  
4 to ensure reliability. To obtain an agreement, a generator must receive verification from  
5 ISO-NE that it is needed for reliability and must demonstrate that it is unable to cover its  
6 operating costs with revenue from other sources. Liberty has not incurred any RMR  
7 contract charges as there have been no RMR contracts for the New Hampshire reliability  
8 region over the past year. Therefore, the Company has not forecasted any RMR contract  
9 costs for 2020.

10 **Q. Can you please explain the forecast of the ISO-NE Administrative Charges shown**  
11 **on lines 7 and 8 of Schedule JDW-1 page 1?**

12 A. Yes. Lines 7 and 8 include ISO-NE Administrative charges for Scheduling & Dispatch  
13 and NESCOE, respectively, and are derived on Schedule JDW-2 page 2. Line 7 on  
14 Schedule JDW-1 page 1 shows the 2021 forecast of charges to Liberty under Schedule 1,  
15 Scheduling and Load Dispatch Administrative schedules through Section IV.A of the ISO  
16 Tariff. The estimate is based on the ISO Schedule 1 rate of \$0.19383 per kW-month  
17 effective January 1, 2021, and multiplied by Liberty’s forecasted monthly network load  
18 as shown in column 1 of Schedule JDW-2, page 2.

19 Line 8 on page 1 of Schedule JDW-1 shows the estimated 2021 NESCOE charges under  
20 Schedule 5 of Section IV.A of the ISO Tariff. This amount was derived by using the ISO  
21 Schedule 5 rate of \$0.00626 per kW-month effective January 1, 2021, and multiplied by

1 Liberty's forecasted monthly network load as shown in column 1 of Schedule JDW-2,  
2 page 2.

3 **Q. What is the sub-total of transmission expenses attributable to charges from the ISO-**  
4 **NE?**

5 A. The sub-total of ISO-NE charges is \$20,807,038, which is the sum of lines 3 through 8 on  
6 Schedule JDW-1, page 1.

7 **Q. Have you estimated the charges to Liberty under Schedule 21 of the ISO Tariff?**

8 A. Yes. Lines 1 and 2 of Schedule JDW-1 show the amount of forecasted charges from  
9 NEP pursuant to the LNS tariff. The total amount of estimated expenses is \$6,084,144,  
10 which represents an increase of \$698,056 in the total NEP estimated expenses to be  
11 incurred by Liberty in 2021 (see Schedule JDW-1, page 2, lines 1 and 2) as compared to  
12 2020. Liberty estimated the PTF and non-PTF Demand expenses based on the average of  
13 NEP's actual PTF and non-PTF Demand charges in 2020 with no adjustment. Metering,  
14 transformation, specific distribution, and ancillary service charges are based on current  
15 rates and are assessed to Liberty based on a per meter and peak load basis, respectively.  
16 A maintenance service credit, as discussed previously, was also included in the estimate.

1   **V.    EXPLANATION OF PRIMARY CHANGE FROM LAST YEAR'S FORECASTED**  
2       **EXPENSES**

3   **Q.    What is the primary cause of the estimated increase in Liberty's 2021 transmission**  
4       **expenses?**

5   **A.**    The estimated 2021 Liberty transmission and ISO-NE expenses of \$26,891,183 represent  
6       an increase of \$3,659,490 from the 2020 forecast of transmission expenses for Liberty.  
7       The increase is mainly attributed to the increased cost of OATT Schedule 9 RNS Service  
8       costs. These cost increases represent continued investment by transmission owners in  
9       projects required to maintain the reliability and deliverability of energy in New England.  
10      In 2020 the transmission owners in New England invested over \$1billion in transmission  
11      projects reviewed and approved in the ISO transmission investment process. The  
12      transmission owners are also forecasting an investment of over \$5billion over the next 5  
13      years.

14   **VI.   CONCLUSION**

15   **Q.    Does this conclude your testimony?**

16   **A.**    Yes.



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Witness: Warshaw

## **Schedules**

Schedule JDW-1	Summary of Transmission Expenses Estimated for 2021
Schedule JDW-2	Summary of ISO Tariff Section II Charges Estimated for 2021
Schedule JDW-3	Summary of System Restoration and Reactive Supply Charges Estimated for 2021
Schedule JDW-4	Summary of New England Power Schedule No. 21 Charges Estimated for 2021

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Schedule JDW-1

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### Summary of Transmission Expenses Estimated For the Year 2021

#### ISO-NE Tariff Schedule 21 NEP LNS Tariff Charges

1	Local Network Service (Monthly Demand Charges)	\$4,894,564	
2	Other NEP Charges	<u>1,189,581</u>	
	<b>Subtotal NEP Charges</b>		<u>\$6,084,144</u>

#### ISO-NE OATT Tariff Section II Charges

3	OATT Schedule 9 - Regional Network Service Charges	\$19,884,162	
4	OATT Schedule 1 - Scheduling, System Control & Dispatch	257,564	
5	OATT Schedule 16 - System Restoration and Planning Service	182,049	
6	OATT Schedule 2 - Reactive Supply and Voltage Control Service	<u>128,922</u>	
	<b>Subtotal ISO-NE Tariff Section II Charges</b>		<u>\$20,452,697</u>

#### ISO-NE Tariff Section IV.A - Administrative Charges

7	ISO-NE Schedule 1 - Scheduling & Dispatch Service	\$343,255	
8	ISO-NE Schedule 5 - NESCOE Budget	<u>11,086</u>	
	<b>Subtotal ISO-NE Tariff Section IV.A Charges</b>		<u>\$354,341</u>

9	<b>Subtotal of ISO-NE Tariff Charges</b>		<u>\$20,807,038</u>
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10	<b>Total Estimated Expenses Flowing Through Current Rates</b>		<u>\$26,891,183</u>
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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

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Schedule JDW-1

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**Summary of Estimated Transmission Expenses  
2020 vs. 2021 Filing Years**

		1 2020 Retail Filing	2 2021 Estimate	3 Yr/Yr Incr/(Decr)
<b>ISO-NE Tariff Schedule 21 NEP LNS Tariff Charges</b>				
1	Local Network Service (Monthly Demand Charges)	\$ 4,184,278	\$ 4,894,564	\$ 710,286
2	Other NEP Charges	1,201,811	1,189,581	(12,230)
	<b>Subtotal</b>	\$ 5,386,088	\$ 6,084,144	\$ 698,056
<b>ISO-NE OATT Tariff Section II Charges</b>				
3	OATT Schedule 9 - Regional Network Service Charges	\$ 17,035,068	\$ 19,884,162	\$ 2,849,094
4	OATT Schedule 1 - Scheduling, System Control & Dispatch	232,222	257,564	25,342
5	OATT Schedule 16 - System Restoration and Planning Service	129,941	182,049	52,109
6	OATT Schedule 2 - Reactive Supply and Voltage Control Service	124,694	128,922	4,228
	<b>Subtotal</b>	\$ 17,521,924	\$ 20,452,697	\$ 2,930,773
<b>ISO-NE Tariff Section IV.A - Administrative Charges</b>				
7	ISO-NE Schedule 1 - Scheduling & Dispatch Service	\$ 308,255	\$ 343,255	\$ 35,000
8	ISO-NE Schedule 5 - NESCOE Budget	15,425	11,086	(4,339)
	<b>Subtotal</b>	\$ 323,680	\$ 354,341	\$ 30,661
9	<b>Subtotal of ISO-NE Tariff Charges</b>	\$ 17,845,604	\$ 20,807,038	\$ 2,961,434
10	<b>Total Estimated Expenses</b>	\$ 23,231,692	\$ 26,891,183	\$ 3,659,490

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Schedule JDW-2

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**Summary of ISO-NE Tariff Section II Charges  
Estimated For the Year 2021**

	(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	ISO-NE OATT Tariff Section II Charges	ISO-NE Schedule 1 - Scheduling & Dispatch Service	ISO-NE Schedule 5 - NESCOE Budget	Total ISO-NE Transmission Charges
1 January	139,406	1,501,656	20,275	14,331	10,149	1,546,411	27,021	873	1,574,305
2 February	132,723	1,429,668	19,303	13,644	9,662	1,472,278	25,726	831	1,498,834
3 March	122,214	1,316,467	17,775	12,564	8,897	1,355,703	23,689	765	1,380,157
4 April	110,821	1,193,744	16,118	11,392	8,068	1,229,322	21,480	694	1,251,496
5 May	155,770	1,677,926	22,655	16,013	11,340	1,727,935	30,193	975	1,759,103
6 June	179,865	2,068,448	26,160	18,490	13,094	2,126,192	34,863	1,126	2,162,181
7 July	191,231	2,199,157	27,813	19,659	13,922	2,260,550	37,066	1,197	2,298,813
8 August	190,297	2,188,416	27,677	19,563	13,854	2,249,509	36,885	1,191	2,287,585
9 September	154,018	1,771,207	22,401	15,833	11,213	1,820,653	29,853	964	1,851,471
10 October	118,810	1,366,315	17,280	12,214	8,649	1,404,458	23,029	744	1,428,231
11 November	134,212	1,543,438	19,520	13,797	9,771	1,586,526	26,014	840	1,613,380
12 December	141,541	1,627,722	20,586	14,550	10,304	1,673,162	27,435	886	1,701,483
<b>13 12-Mo Total</b>		<b>\$19,884,162</b>	<b>\$257,564</b>	<b>\$182,049</b>	<b>\$128,922</b>	<b>\$20,452,697</b>	<b>\$343,255</b>	<b>\$11,086</b>	<b>\$20,807,038</b>

Line 1-12: Column (1) = 2019 Monthly Coincident Network Load of LU

Line 1-5: Column (2) = June 1, 2020 OATT Schedule 9 RNS Rate \* Column (1) / 12

2020 RNS Rate= \$ **129.26** /kW-YR

Line 6-12: Column (2) = Estimated June 1, 2021 RNS Rate \* Column (1) / 12

2021 RNS Rate= \$ **138.00** /kW-YR

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

Rate = \$ **1.74530** /kW-YR

Line 1-12: Column (4) = 0 [No Reliability Must Run Contracts are currently in effect for New Hampshire]

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

Rate = \$ **0.10280** /kW-Month

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

Rate = \$ **0.07280** /kW-Month

Line 1-12: Column (6) = Sum of Columns (2) thru (5)

Line 1-12: Column (7) = JDW-2 Column (2)

Rate = \$ 0.19383 kW-month

Line 1-12: Column (8) = JDW-2 Column (3)

Rate = \$ 0.00626 kW-month

Line 1-12: Column (9) = Sum of Columns (6) thru (8)

Line 13 = Sum of Line 1 thru Line 12

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

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Schedule JDW-2

page 2 of 2

**Summary of ISO Tariff Section IV.A Administrative Charges  
Estimated For the Year 2021**

	(1)	(2)	(3)	(4)
Period	Monthly Regional Network Load	ISO-NE Schedule 1 - Scheduling & Dispatch Service	ISO-NE Schedule 5 - NESCOE Budget	Section IV.A - Administrative Charges
1 January	139,406	\$27,021	\$873	\$27,894
2 February	132,723	25,726	831	26,557
3 March	122,214	23,689	765	24,454
4 April	110,821	21,480	694	22,174
5 May	155,770	30,193	975	31,168
6 June	179,865	34,863	1,126	35,989
7 July	191,231	37,066	1,197	38,263
8 August	190,297	36,885	1,191	38,077
9 September	154,018	29,853	964	30,817
10 October	118,810	23,029	744	23,773
11 November	134,212	26,014	840	26,854
12 December	141,541	27,435	886	28,321
13	<b>Totals</b>	<b>\$343,255</b>	<b>\$11,086</b>	<b>\$354,341</b>

Column (1) = 2019 Monthly Coincident Network Load of LU

Column (2) = Column (1) \* \$0.19383 per kW-month per ISO 2021 Capital Budget Filing \$ 0.19383

Column (3) = Column (1) \* \$0.00626 per kW-month per NESCOE 2021 Budget Filing \$ 0.00626

Column (4) = Column (2) + Column (3)

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

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Schedule JDW-3

page 1 of 1

## Summary of Reactive Power & Black Start Costs Estimated For the Year 2021

### Section I: Development of ISO-NE Schedule 2 Costs

1	Granite Total ISO-NE Schedule 2 Costs	\$167,153
2	2020 Granite Peak Load (KW)	<u>191,231</u>
3	Estimated Rate / KW-Yr	<u>\$0.8741</u>
4	Estimated Rate / KW-Mo	\$0.0728

### Section II: Development of ISO-NE Schedule 16 Costs

5	Granite Total ISO-NE Schedule 16 Settlement Costs	\$235,908
6	2020 Granite Peak Load (KW)	<u>191,231</u>
7	Estimated Rate / KW-Yr	<u>\$1.2336</u>
8	Estimated Rate / KW-Mo	\$0.1028

Line 1 = Granite ISO-NE Schedule 2 costs for the 12 months ending December 2020

Line 2 = Granite Peak Load in 2020

Line 3 = Line 1 / Line 2

Line 4 = Line 3 / 12

Line 5 = ISO Schedule 16 Settlement Reports for the 12 months ending December 2020

Line 6 = Line 5

Line 7 = Line 5 / Line 6

Line 8 = Line 7 / 12

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

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Schedule JDW-4

page 1 of 2

**Summary of New England Power - Schedule No. 21 Charges  
Estimated For the Year 2021**

Period	(1) Net Monthly Demand Charge	(2) Load Dispatch Charge	(3) Specific Distribution	(4) Transformer Surcharge	(5) Meter Surcharge	(6) Maintenance Service Credit	(7) Total NEP Costs
1 January	407,880	7,861	16,638	75,640	1,074	(2,081)	507,012
2 February	407,880	7,861	16,638	75,640	1,074	(2,081)	507,012
3 March	407,880	7,861	16,638	75,640	1,074	(2,081)	507,012
4 April	407,880	7,861	16,638	75,640	1,074	(2,081)	507,012
5 May	407,880	7,861	16,638	75,640	1,074	(2,081)	507,012
6 June	407,880	7,861	16,638	75,640	1,074	(2,081)	507,012
7 July	407,880	7,861	16,638	75,640	1,074	(2,081)	507,012
8 August	407,880	7,861	16,638	75,640	1,074	(2,081)	507,012
9 September	407,880	7,861	16,638	75,640	1,074	(2,081)	507,012
10 October	407,880	7,861	16,638	75,640	1,074	(2,081)	507,012
11 November	407,880	7,861	16,638	75,640	1,074	(2,081)	507,012
12 December	407,880	7,861	16,638	75,640	1,074	(2,081)	507,012
<b>13 12- Mo Total</b>	<b>\$4,894,564</b>	<b>\$94,336</b>	<b>\$199,651</b>	<b>\$907,681</b>	<b>\$12,885</b>	<b>-\$24,972</b>	<b>\$6,084,144</b>

Column (1) = Monthly Average of the PTF & Non-PTF Monthly Demand Charges for the 12 month period ending December 2020

Column (2) = Monthly Average of the Load Dispatch Charge for the 12 month period ending December 2020

Column (3) = 23,768 kW & \$0.70 per NEP Tariff as of June 1, 2020

Column (4) = 193,949 kW & \$0.39 per NEP Tariff as of June 1, 2020

Column (5) = 17 meters \* \$63.16 per meter per NEP Tariff as of June 1, 2020

Column (6) Per the Integrated Facilities Supplement dated July 3, 2012 between NEP and Granite State

Column (7) = Sum of Columns (1) through (6)

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

Docket DE 21-\_\_\_\_\_

Schedule JDW-4

page 2 of 2

### Comparison of Actual LNS Transmission Expenses For the Years 2019 and 2020

NEP Schedule 21 Actual Expenses						
						(1)
	Coincident Network Load - PTF	NEP Monthly Demand Charge - PTF	NEP Monthly Demand Charge - NON-PTF	Load Dispatch Charge	Sum of Other NEP LNS Charges	Non-PTF  Sch 21-NEP
January-2019	152,467	28,718	380,791	(222)	83,623	\$492,909
February-2019	135,924	(134,556)	356,600	(2,028)	82,505	\$302,521
March-2019	135,529	(44,499)	371,670	3,512	83,642	\$414,324
April-2019	119,726	36,375	402,859	2,455	86,648	\$528,337
May-2019	131,552	132,703	419,292	1,984	123,786	\$677,766
June-2019	161,645	116,843	410,126	3,563	95,777	\$626,309
July-2019	188,300	(92,989)	366,364	(211)	95,782	\$368,946
August-2019	184,624	(257,527)	395,462	(8,008)	94,586	\$224,513
September-2019	147,737	(259,231)	375,267	(5,164)	96,007	\$206,879
October-2019	112,715	(8,805)	374,654	57,400	95,613	\$518,861
November-2019	135,261	30,053	354,726	310	96,772	\$481,861
December-2019	143,385	43,514	385,870	(1,172)	96,427	\$524,639
			<b>4,184,278</b>	<b>\$52,419</b>	<b>\$1,131,168</b>	<b>\$5,367,865</b>
January-2020	139,406	19,379	417,133	6,634	95,676	\$538,822
February-2020	132,723	55,175	418,323	4,715	95,704	\$573,916
March-2020	122,214	74,059	390,913	9,512	93,748	\$568,231
April-2020	110,821	156,215	409,358	1,853	93,487	\$660,912
May-2020	155,770	385,138	541,977	3,150	95,767	\$1,026,032
June-2020	179,865	256,028	485,455	7,156	91,254	\$839,894
July-2020	191,231	(276,592)	390,042	1,100	91,201	\$205,751
August-2020	190,297	(373,837)	442,779	(853)	89,547	\$157,636
September-2020	154,018	(323,575)	460,727	347	91,410	\$228,910
October-2020	118,810	(115,244)	406,717	23,804	90,884	\$406,162
November-2020	134,212	69,126	420,938	33,844	61,270	\$585,179
December-2020	141,541	(154,842)	339,172	3,073	92,932	\$280,335
			<b>4,894,564</b>	<b>\$94,336</b>	<b>\$1,082,881</b>	<b>\$6,071,780</b>
% increase in NEP Expenses from previous year						13%



**STATE OF NEW HAMPSHIRE  
BEFORE THE  
PUBLIC UTILITIES COMMISSION**

Docket No. DE 21-\_\_\_\_

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

Annual Retail Rate

**DIRECT TESTIMONY**

**OF**

**DAVID B. SIMEK**

**AND**

**ADAM M. HALL**

March 24, 2021



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1   **I. INTRODUCTION AND QUALIFICATIONS**

2   **Q. Please state your full name and business address.**

3   A. (DS) My name is David B. Simek. My business address is 15 Buttrick Road,  
4       Londonderry, New Hampshire.

5       (AH) My name is Adam M. Hall. My business address is 15 Buttrick Road,  
6       Londonderry, New Hampshire.

7   **Q. Please state by whom you are employed.**

8   A. We are employed by Liberty Utilities Service Corp. (“Liberty”), which provides service  
9       to Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities (“Granite State”  
10       or “the Company”).

11   **Q. Please describe your educational and professional background.**

12   A. (DS) I graduated from Ferris State University in 1993 with a Bachelor of Science in  
13       Finance. I received a Master’s of Science in Finance from Walsh College in 2000. I  
14       also received a Master’s of Business Administration from Walsh College in 2001. In  
15       2006, earned a Graduate Certificate in Power Systems Management from Worcester  
16       Polytechnic Institute. In August 2013, I joined Liberty as a Utility Analyst and I was  
17       promoted to Manager, Rates and Regulatory Affairs in August 2017. Prior to my  
18       employment at Liberty, I was employed by NSTAR Electric & Gas (“NSTAR”) as a  
19       Senior Analyst in Energy Supply from 2008 to 2012. Prior to my position in Energy  
20       Supply at NSTAR, I was a Senior Financial Analyst with the NSTAR Investment  
21       Planning group from 2004 to 2008.

1 (AH) I graduated from Siena College in 2014 with a Bachelor of Science in Finance. I  
2 also received a Master's of Business Administration from Franklin Pierce University in  
3 2016. I joined Liberty Utilities as an Analyst, Rates and Regulatory Affairs in January  
4 2019. Prior to this, I was employed by Southern New Hampshire University.

5 **Q. Have you previously testified in regulatory proceedings before the New Hampshire**  
6 **Public Utilities Commission (the "Commission")?**

7 A. (DS) Yes, I have testified on numerous occasions before the Commission.

8 (AH) Yes, I have.

9 **II. PURPOSE OF TESTIMONY**

10 **Q. What is the purpose of your testimony?**

11 A. The purpose of our testimony is to present Granite State's proposed rate adjustments for  
12 2021 in accordance with the Company's reconciliation and adjustment provisions of its  
13 tariff, and the Company's Amended Restructuring Settlement Agreement approved in  
14 Docket No. DR 98-012 ("Amended Settlement Agreement"). The reconciliations and  
15 adjustments described in our testimony relate to the Stranded Cost Charge and  
16 Transmission Charge.

17 The purpose of the reconciliation analyses is to determine the difference between  
18 revenues collected under each charge and the Company's actual expenses. For each of  
19 the charges, the Company calculates an adjustment factor based on the result of each  
20 reconciliation, which is used to determine whether a refund to or recovery from  
21 customers is necessary.

**Q. Did you perform your analyses consistent with processes and procedures for similar filings in previous years?**

A. Yes. We have performed our analyses consistent with past methods and practices. The actual revenues and costs tie to the Company's books. Prior to Docket No. DE 19-062, when the Company ensured that the Annual Retail Rate Filing beginning balances tied to the accounting records, the ending balances from the prior year reconciliations were used as the next years beginning balances.

**Q. Are there months in the schedules that do not have actual expenses and revenues?**

A. Yes. To address the fact that the filing is made two months prior to rates going into effect, and, thus, actual expenses and revenues are not available as of the filing date, we have included projected revenues and expenses for the months of March and April 2021.

**Q. Please summarize the results of the adjustments and reconciliations which Granite State proposes to implement in 2021.**

A. The Company proposes to implement the following adjustments to its rates beginning May 1, 2021, for usage on and after that date. The table below illustrates the current and proposed rates:

<u>Average charge (\$ / kWh)</u>	<u>Current</u>	<u>Proposed</u>	<u>Increase (Decrease)</u>
Stranded Cost Charge	\$ (0.00070)	\$ (0.00080)	\$ (0.00010)
Stranded Cost Adjustment Factor	\$ (0.00002)	\$ 0.00000	\$ 0.00002
Transmission Service Charge	\$ 0.02545	\$ 0.03057	\$ 0.00512
Transmission Service Cost Adjustment	\$ (0.00023)	\$ 0.00376	\$ 0.00399
RGGI Auction Proceeds Refund	\$ (0.00152)	\$ (0.00211)	\$ (0.00059)
Lost Revenue due to Net Metering	\$ -	\$ 0.00048	\$ 0.00048

Schedule DBS/AMH-1 presents the proposed stranded cost and the transmission rates.

**III. STRANDED COST CHARGE AND THE STRANDED COST ADJUSTMENT**  
**FACTOR**

**Q. Please discuss, in general terms, the Company's proposed adjustment and reconciliation of its Stranded Cost Charge.**

A. Granite State's Stranded Cost Charge is the sum of two components. The first is a uniform charge per kilowatt-hour ("kWh") that the Company charges all customers, which reflects the Contract Termination Charge ("CTC") assessed by New England Power Company ("NEP") for 2021. The second component is the Stranded Cost Adjustment Factor ("SCAF"), which is specific to each rate class. Both of these components are in accordance with the Company's Stranded Cost Charge described on pages 19–20 of the Company's tariff.

**Q. What changes are the Company proposing to the components of the Stranded Cost Charge?**

A. Granite State is proposing a uniform charge per kWh related to the CTC assessed by NEP as a credit of (\$0.00080) per kWh for the period beginning May 1, 2021. With respect to the SCAF, Granite State is proposing to change the load weighted-average from a credit of (\$0.00002) per kWh to a load-weighted average charge of \$0.00000 per kWh.

**Q. Please describe the purpose of the CTC assessed by NEP.**

A. In 1996, the New Hampshire Legislature enacted RSA 374-F, a statute which directed the Commission to develop a restructuring plan to implement electric retail choice for all

1 customers (“Restructuring”). Prior to Restructuring, Granite State customers were served  
2 by generation assets owned by the Company’s then affiliate, NEP. During the  
3 Restructuring process, Granite State, NEP, and other parties agreed to a divestiture of  
4 NEP’s generation assets. As part of its Electric Utility Restructuring Offer of Settlement  
5 in Docket No. DR 98-012 (“Restructuring Settlement”), the CTC was established to  
6 recover stranded costs associated with this divestiture, with such recovery expected at  
7 that time to terminate in 2020, coincident with the scheduled termination of certain  
8 underlying long-term power contracts. Although many of the categories of costs and  
9 obligations are no longer applicable, some of the remaining obligations other than the  
10 residual over-market power contracts include nuclear decommissioning and other post  
11 shut-down costs; damages, costs, or net recoveries from claims associated with NEP’s  
12 former generation business; performance based rate adjustments for nuclear units  
13 remaining after divestiture; and environmental response costs.

14 **Q. Please describe the changes to the Stranded Cost Charge resulting from the changes**  
15 **in the CTC assessed by NEP for 2021.**

16 A. In the 2021 CTC Reconciliation Report filed in Docket No. DE 21-011, NEP provided  
17 the reconciliation report to the Commission and the signatories to the Amended  
18 Settlement Agreement in accordance with Section 3.5 of the Wholesale Settlement  
19 approved by the Federal Energy Regulatory Commission. In that filing, NEP calculated  
20 the revised CTC rate for 2021 to be a credit of (\$0.00080) per kWh as compared to the  
21 2020 CTC, which was a credit of (\$0.00070). The Company’s rate proposal with

1 respect to the uniform per kWh component of the Stranded Cost Charge is simply the  
2 CTC rate filed by NEP.

3 **Q. Please describe the Stranded Cost adjustment factors and the reconciliation used to**  
4 **determine those factors for each rate class.**

5 A. The Company performs an annual reconciliation of its revenues from the Stranded Cost  
6 Charge billed to customers and recorded in its general ledger with the CTC expenses  
7 paid to NEP to arrive at adjustment factors for each rate class. Details for the  
8 reconciliation for the period May 2020 through April 2021 are in Schedule DBS/AMH-  
9 2.

10 **Q. Has the Company prepared a reconciliation analysis for Stranded Cost revenues**  
11 **and expenses?**

12 A. Yes. Schedule DBS/AMH-2, page 2 of 4, presents a reconciliation of actual stranded  
13 cost revenues and expenses for the period May 2020 through February 2021 and  
14 forecasted stranded cost revenues and expenses for the period March 2021 through April  
15 2021. Pages 3 and 4 of Schedule DBS/AMH-2 allocate the reconciliation to the various  
16 rate classes.

17 **Q. Has the Company calculated proposed SCAFs for 2021?**

18 A. Yes. Schedule DBS/AMH-2, page 1 of 4, calculates a SCAF per kWh, specific to each  
19 rate class, to be applied to all retail delivery service customers' bills for the period May  
20 1, 2021, through April 30, 2022.



1 **IV. TRANSMISSION SERVICE COST ADJUSTMENT CHARGE**

2 **Q. Please describe the Company's Transmission Service Cost Adjustment ("TSCA")**  
3 **charge.**

4 A. The Company recovers its transmission-related expenses pursuant to the TSCA, which  
5 allows the Company to recover costs billed to it by ISO-New England and NEP through  
6 the ISO-New England Inc. Transmission, Markets, and Services Tariff ("ISO Tariff").  
7 The TSCA charge is comprised of two components: a component for base transmission  
8 costs for the prospective period plus a component for the reconciliation of transmission  
9 revenue and expense for the previous period.

10 **Q. What is the transmission charge that the Company is proposing for effect on May 1,**  
11 **2021?**

12 A. The Company is proposing an average transmission charge of \$0.03433 per kWh for  
13 effect May 1, 2021, and is comprised of the base cost component of \$0.03057 per kWh  
14 and the reconciliation component of \$0.00376 per kWh. This average transmission  
15 charge is an increase of \$0.00911 from the average charge that is currently in effect.

16 **Q. Please describe the reconciliation analysis for transmission revenues and expenses**  
17 **for the previous period.**

18 A. Schedule DBS/AMH-3, page 3, presents a reconciliation of actual transmission revenues  
19 and expenses for the period May 2020 through February 2021 and forecasted  
20 transmission revenues and expenses for the period March 2021 through April 2021.

1    **Q.     How was the reconciliation component of the TSCA charge derived?**

2    A.     The reconciliation component of the TSCA recovers under-recoveries of transmission  
3           costs or refunds over-recoveries of transmission costs, along with associated interest at  
4           the prime rate. This component of the TSCA charge was calculated by adding the  
5           projected under-collection of transmission expense as of April 30, 2021, from Schedule  
6           DBS/AMH-3, page 3, of \$3,318,805, plus the working capital of (\$8,590) calculated on  
7           DBS/AMH-3, page 5.

8    **Q.     How will the reconciliation component of the TSCA charge be implemented?**

9    A.     The reconciliation component of the TSCA charge will become effective for usage on  
10          and after May 1, 2021. This proposed component will be applied to bills of all  
11          customers taking delivery service.

12   **Q.     Why is the Company proposing new base transmission rates at this time?**

13   A.     The TSCA portion of the Company's tariff states that the base transmission rates shall  
14          be calculated annually based on a forecast of transmission costs to be incurred by the  
15          Company for the prospective period to provide transmission service to its retail delivery  
16          service customers. The rate at which these costs are collected is calculated separately  
17          for each of the Company's rate classes based on an allocation of transmission costs to  
18          each class using each class' contribution to coincident peak.

19   **Q.     What is the forecast of 2021 transmission costs?**

20   A.     As discussed in the testimony of John D. Warshaw included in this filing, the  
21          Company's transmission costs are estimated to be \$26,891,183 in 2021. This forecast of

1 transmission expense yields an average rate of \$0.03057 per kWh, as compared to the  
2 currently effective average transmission rate of \$0.02545 per kWh exclusive of the  
3 reconciliation component. Based on these estimates, the Company is proposing new  
4 base transmission rates effective May 1, 2021, to recover the projected transmission  
5 costs to be incurred in the prospective period.

6 **Q. Please describe the working capital calculation included in the filing.**

7 A. The settlement agreement in Docket No. DE 19-064 provided, in part, that the Company  
8 may recover cash working capital on transmission costs through the transmission cost  
9 adjustment mechanism included in the Company's Annual Retail Rate Adjustment filing.  
10 In accordance with that settlement, the Company has included a transmission cash  
11 working capital amount in the calculation of its proposed transmission rates.

12 **Q. What is the total amount of transmission working capital included in this filing?**

13 A. The total working capital included in the TSCA charge is (\$8,590) as shown on Schedule  
14 DBS/AMH-3, page 5. The detailed calculation of the expense lag is shown on Schedule  
15 DBS/AMH-3, page 6. The detailed calculation of the revenue lag is shown on Schedule  
16 DBS/AMH-3, page 7.

17 **Q. How does the Company propose to design the base transmission rates effective May**  
18 **1, 2021?**

19 A. Since base transmission rates are unique by rate class, the first step in designing the  
20 proposed base transmission rates is to allocate forecasted transmission costs to each rate  
21 class. The Company implemented the same allocation methodology accepted by the

Commission in previous Annual Retail Rate Adjustment filings, which is to allocate based on each rate class's contribution to system peak. The contribution to system peak by class is presented on Schedule DBS/AMH-3, page 2, and the allocation of transmission cost to each class is shown on Schedule DBS/AMH-3, page 1.

**V. RGGI AUCTION PROCEEDS**

**Q. How does the Company propose to refund RGGI auction proceeds to delivery service customers?**

A. Consistent with Commission Order No. 25,664 in Docket No. DE 14-048, the Company will credit the RGGI rebate amount it receives from the allocation on a per kWh basis through its retail rate reconciliation mechanism that is adjusted on an annual basis. The Company has included a credit of (\$0.00211) per kWh for RGGI auction proceeds in its transmission service charge for 2020, as shown on Schedule DBS/AMH-4. The credit of (\$0.00211) per kWh is comprised of the estimated RGGI auction proceeds for May 2021 through April 2022 of (\$522,778) and the reconciliation component through April 2021 of (\$1,333,151). The total of (\$1,855,928) is then divided by the estimated sales of 879,426,489 kWh to calculate the RGGI credit of (\$0.00211) per kWh.

**VI. NET METERING LOST REVENUE ADJUSTMENT MECHANISM**

**Q. Why is the Company seeking recovery of displaced distribution revenue associated with net metering?**

A. Due to the increasing number of customer-generated energy systems, primarily photovoltaic (PV), also known as solar, energy systems, the Company is receiving less distribution revenue than it would have received were it not for the energy generated by

1 these systems. Order No. 26,029 dated June 23, 2017, in Docket No. DE 16-576  
2 provides the utilities the opportunity to file for lost revenues associated with net  
3 metering. Being that 2018 was a test year for Granite State Electric, the 2019 Annual  
4 Retail Rate filing did not include the lost revenues as the base revenues were set during  
5 that test year. In 2020, the Company did not include the lost revenues as we were  
6 working through Docket No. DE 19-064, the Company's most recent distribution rate  
7 case with a request for the approval of a revenue decoupling mechanism. While  
8 decoupling was approved in that docket, it is not effective until July 1, 2021, but that  
9 agreement was not arrived at by the time the 2020 Annual Retail Rate filing was due in  
10 March 2020. Rather than include revenues that may have been refunded, the Company  
11 deferred the request for cost recovery until this filing.

12 **Q. Please summarize the findings of your analyses.**

13 A. As a result of PV systems installed by customers in 2019 and 2020, the Company is  
14 proposing to recover a total of \$421,733 in displaced distribution revenue including  
15 2019 and 2020 group host payments and the 2019 annual cash out allowed under Puc  
16 903.02(n). The rate calculation may be found in DBS/AMH-5.

17 **VII. EFFECTIVE DATE AND RATE IMPACTS**

18 **Q. How and when is the Company proposing that these rate changes be implemented?**

19 A. Consistent with the Commission's rules on the implementation of rate changes, the  
20 Company is proposing that all of the above rate changes be made effective for usage on  
21 and after May 1, 2021.

1   **Q.    Has the Company proposed a rate change for any other bill components to be**  
2       **effective on that same date?**

3    A.    Yes. On March 15, 2021, the Company filed its annual REP/VMP Reconciliation in  
4       which it requested a rate increase to its distribution rates for capital expenditures and  
5       vegetation management expenses from calendar year 2020. The Company also expects  
6       to have a base distribution rate adjustment on July 1, 2021, related to a step adjustment  
7       approved as part of Docket No. DE 19-064.

8   **Q.    Has the Company determined the impact of the transmission and stranded cost rate**  
9       **changes on customers' bills?**

10   A.    Yes. A bill comparison for an Energy Service residential customer with an average  
11       kWh usage of 650 has also been included in this filing in Schedule DBS/AMH-6. The  
12       net total bill impact of the rates proposed in this filing, as compared to rates in effect  
13       today, is a monthly bill increase of \$6.73, or 5.86%.

14   **VIII. CONCLUSION**

15   **Q.    Does this conclude your testimony?**

16   A.    Yes, it does.

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty  
Docket No. DE 21-\_\_\_\_  
DBS/AMH-1  
Page 1 of 1

**Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities  
Summary of Proposed Rates For Stranded Cost and Transmission**

Rate Class	Stranded Cost Charge	Stranded Cost Adjustment Factor	Net Stranded Cost Charge	Transmission Charge	Transmission Service Cost Adjustment	RGGI Auction Proceeds Refund	Lost Revenue due to Net Metering	Net Transmission Charge
	(a) DE 21-011	(b) DBS/AMH-2 P1	(c) (a) + (b)	(d) DBS/AMH-3 P1	(e) DBS/AMH-3 P4	(f) DBS/AMH-4	(g) DBS/AMH-5	(h) (d) + (e) + (f) + (g)
<b>D</b>	(\$0.00080)	\$0.00000	<b>(\$0.00080)</b>	\$0.03490	\$0.00376	(\$0.00211)	\$0.00048	<b>\$0.03703</b>
<b>D-10</b>	(\$0.00080)	\$0.00000	<b>(\$0.00080)</b>	\$0.02635	\$0.00376	(\$0.00211)	\$0.00048	<b>\$0.02848</b>
<b>G-1</b>	(\$0.00080)	\$0.00000	<b>(\$0.00080)</b>	\$0.02744	\$0.00376	(\$0.00211)	\$0.00048	<b>\$0.02957</b>
<b>G-2</b>	(\$0.00080)	\$0.00000	<b>(\$0.00080)</b>	\$0.03205	\$0.00376	(\$0.00211)	\$0.00048	<b>\$0.03418</b>
<b>G-3</b>	(\$0.00080)	\$0.00000	<b>(\$0.00080)</b>	\$0.02891	\$0.00376	(\$0.00211)	\$0.00048	<b>\$0.03104</b>
<b>Streetlights</b>	(\$0.00080)	\$0.00000	<b>(\$0.00080)</b>	\$0.01966	\$0.00376	(\$0.00211)	\$0.00048	<b>\$0.02179</b>
<b>T</b>	(\$0.00080)	\$0.00000	<b>(\$0.00080)</b>	\$0.02582	\$0.00376	(\$0.00211)	\$0.00048	<b>\$0.02795</b>
<b>V</b>	(\$0.00080)	\$0.00000	<b>(\$0.00080)</b>	\$0.02243	\$0.00376	(\$0.00211)	\$0.00048	<b>\$0.02456</b>

\*May not sum due to rounding

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**Liberty Utilities (Granite State Electric) d/b/a Liberty Utilities  
Calculation of Stranded Cost Adjustment Factor  
Effective May 1, 2021 - April 30, 2022**

<b>Rate Class</b>	<b>Total (Over)/Under Collection</b>	<b>Total 2021 Forecasted kWh</b>	<b>2021 Stranded Cost Adj. Factor</b>
	(a)	(b)	(c)
<b>D</b>	\$ 266	284,513,526	\$ 0.00000
<b>D-10</b>	\$ 5	5,441,648	\$ 0.00000
<b>T</b>	\$ 14	13,619,228	\$ 0.00000
<b>G-1</b>	\$ 379	367,232,595	\$ 0.00000
<b>G-2</b>	\$ 141	125,159,740	\$ 0.00000
<b>G-3</b>	\$ 85	79,307,937	\$ 0.00000
<b>V</b>	\$ 0	315,138	\$ 0.00000
<b>M- Streetlights</b>	\$ 4	3,836,676	\$ 0.00000
	\$ 894	879,426,489	\$ 0.00000



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**Liberty Utilities (Granite State Electric) d/b/a Liberty Utilities**  
**Stranded Cost Reconciliation Summary**  
**All Rate Classes**  
**May 2020 - April 2021**

Month	(Over)/Under Beginning Balance	Stranded Cost Revenue (Refund)	CTC Expense (Credit)	Monthly (Over)/Under	(Over)/Under Ending Balance	Balance Subject to Interest	Interest Rate	Interest	Cumulative Interest
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
May-20	(\$24,253)	(\$52,634)	(\$47,893)	\$4,741	(\$19,512)	(\$21,883)	3.25%	(\$59)	(\$59)
Jun-20	(\$19,571)	(\$53,034)	(\$41,597)	\$11,437	(\$8,134)	(\$13,853)	3.25%	(\$38)	(\$97)
Jul-20	(\$8,172)	(\$64,206)	(\$51,186)	\$13,020	\$4,848	(\$1,662)	3.25%	(\$5)	(\$101)
Aug-20	\$4,844	(\$62,814)	(\$62,403)	\$412	\$5,255	\$5,050	3.25%	\$14	(\$88)
Sep-20	\$5,269	(\$54,387)	(\$61,055)	(\$6,668)	(\$1,399)	\$1,935	3.25%	\$5	(\$82)
Oct-20	(\$1,394)	(\$48,196)	(\$52,867)	(\$4,670)	(\$6,064)	(\$3,729)	3.25%	(\$10)	(\$92)
Nov-20	(\$6,074)	(\$47,055)	(\$46,849)	\$206	(\$5,868)	(\$5,971)	3.25%	(\$16)	(\$109)
Dec-20	(\$5,884)	(\$54,424)	(\$45,738)	\$8,686	\$2,802	(\$1,541)	3.25%	(\$4)	(\$113)
Jan-21	\$2,798	(\$57,418)	(\$52,898)	\$4,520	\$7,318	\$5,058	3.25%	\$14	(\$99)
Feb-21	\$7,331	(\$54,533)	(\$63,778)	(\$9,245)	(\$1,914)	\$2,709	3.25%	\$7	(\$92)
* Mar-21	(\$1,907)	(\$52,586)	(\$51,125)	\$1,461	(\$446)	(\$1,176)	3.25%	(\$3)	(\$95)
* Apr-21	(\$449)	<u>(\$48,331)</u>	<u>(\$46,988)</u>	\$1,343	\$893	\$222	3.25%	\$1	(\$94)
		(\$649,618)	(\$624,376)						

**Projected Cumulative (Over)/Under Collection of Stranded Cost Charge: \$894**

- (a) May-20 ties to the deferral account balance, all other months are Prior Month Column (e) + Prior Month Column (h)
- (b) Company financials
- (c) Company financials
- (d) Column (c) - Column (b)
- (e) Column (a) + Column (d)
- (f) [Column (a) + Column (e)] ÷ 2
- (g) Interest rate on customer deposits
- (h) Column (f) x [Column (g) ÷ 12]
- (i) Column (h) + Prior Month Column (i)
- \* Projected

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**Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities**  
**Stranded Cost Reconciliation**  
**May 2020 - April 2021**

Rate D	(Over)/ Under Beginning Balance	Stranded Cost Revenue (Refund)	CTC Expense (Credit)	Monthly (Over)/ Under	(Over)/ Under Ending Balance	Balance Subject to Interest	Interest Rate	Interest	Total Interest
Month	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
May-20	\$ (7,223)	\$ (15,675)	\$ (14,263)	\$ 1,412	\$ (5,811)	\$ (6,517)	3.25%	\$ (18)	\$ (18)
Jun-20	\$ (5,829)	\$ (15,795)	\$ (12,389)	\$ 3,406	\$ (2,423)	\$ (4,126)	3.25%	\$ (11)	\$ (29)
Jul-20	\$ (2,434)	\$ (19,122)	\$ (15,244)	\$ 3,878	\$ 1,444	\$ (495)	3.25%	\$ (1)	\$ (30)
Aug-20	\$ 1,443	\$ (18,707)	\$ (18,585)	\$ 123	\$ 1,565	\$ 1,504	3.25%	\$ 4	\$ (26)
Sep-20	\$ 1,569	\$ (16,197)	\$ (18,183)	\$ (1,986)	\$ (417)	\$ 576	3.25%	\$ 2	\$ (25)
Oct-20	\$ (415)	\$ (14,354)	\$ (15,745)	\$ (1,391)	\$ (1,806)	\$ (1,111)	3.25%	\$ (3)	\$ (28)
Nov-20	\$ (1,809)	\$ (14,014)	\$ (13,952)	\$ 61	\$ (1,748)	\$ (1,778)	3.25%	\$ (5)	\$ (32)
Dec-20	\$ (1,753)	\$ (16,209)	\$ (13,622)	\$ 2,587	\$ 834	\$ (459)	3.25%	\$ (1)	\$ (34)
Jan-21	\$ 833	\$ (17,100)	\$ (15,754)	\$ 1,346	\$ 2,179	\$ 1,506	3.25%	\$ 4	\$ (30)
Feb-21	\$ 2,183	\$ (16,241)	\$ (18,994)	\$ (2,753)	\$ (570)	\$ 807	3.25%	\$ 2	\$ (27)
* Mar-21	\$ (568)	\$ (15,661)	\$ (15,226)	\$ 435	\$ (133)	\$ (350)	3.25%	\$ (1)	\$ (28)
* Apr-21	\$ (134)	\$ (14,394)	\$ (13,994)	\$ 400	\$ 266	\$ 66	3.25%	\$ 0	\$ (28)

Cumulative (Over)/Under Collection of Stranded Cost \$ 266

Rate D-10	(Over)/ Under Beginning Balance	Stranded Cost Revenue (Refund)	CTC Expense (Credit)	Monthly (Over)/ Under	(Over)/ Under Ending Balance	Balance Subject to Interest	Interest Rate	Interest	Total Interest
Month	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
May-20	\$ (140)	\$ (304)	\$ (276)	\$ 27	\$ (113)	\$ (126)	3.25%	\$ (0)	\$ (0)
Jun-20	\$ (113)	\$ (306)	\$ (240)	\$ 66	\$ (47)	\$ (80)	3.25%	\$ (0)	\$ (1)
Jul-20	\$ (47)	\$ (370)	\$ (295)	\$ 75	\$ 28	\$ (10)	3.25%	\$ (0)	\$ (1)
Aug-20	\$ 28	\$ (362)	\$ (360)	\$ 2	\$ 30	\$ 29	3.25%	\$ 0	\$ (1)
Sep-20	\$ 30	\$ (314)	\$ (352)	\$ (38)	\$ (8)	\$ 11	3.25%	\$ 0	\$ (0)
Oct-20	\$ (8)	\$ (278)	\$ (305)	\$ (27)	\$ (35)	\$ (22)	3.25%	\$ (0)	\$ (1)
Nov-20	\$ (35)	\$ (271)	\$ (270)	\$ 1	\$ (34)	\$ (34)	3.25%	\$ (0)	\$ (1)
Dec-20	\$ (34)	\$ (314)	\$ (264)	\$ 50	\$ 16	\$ (9)	3.25%	\$ (0)	\$ (1)
Jan-21	\$ 16	\$ (331)	\$ (305)	\$ 26	\$ 42	\$ 29	3.25%	\$ 0	\$ (1)
Feb-21	\$ 42	\$ (314)	\$ (368)	\$ (53)	\$ (11)	\$ 16	3.25%	\$ 0	\$ (1)
* Mar-21	\$ (11)	\$ (303)	\$ (295)	\$ 8	\$ (3)	\$ (7)	3.25%	\$ (0)	\$ (1)
* Apr-21	\$ (3)	\$ (279)	\$ (271)	\$ 8	\$ 5	\$ 1	3.25%	\$ -	\$ (1)

Cumulative (Over)/Under Collection of Stranded Cost \$ 5

Rate T	(Over)/ Under Beginning Balance	Stranded Cost Revenue (Refund)	CTC Expense (Credit)	Monthly (Over)/ Under	(Over)/ Under Ending Balance	Balance Subject to Interest	Interest Rate	Interest	Total Interest
Month	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
May-20	\$ (369)	\$ (800)	\$ (728)	\$ 72	\$ (297)	\$ (333)	3 25%	\$ (1)	\$ (1)
Jun-20	\$ (297)	\$ (806)	\$ (632)	\$ 174	\$ (124)	\$ (211)	3 25%	\$ (1)	\$ (1)
Jul-20	\$ (124)	\$ (976)	\$ (778)	\$ 198	\$ 74	\$ (25)	3 25%	\$ (0)	\$ (2)
Aug-20	\$ 74	\$ (955)	\$ (948)	\$ 6	\$ 80	\$ 77	3 25%	\$ 0	\$ (1)
Sep-20	\$ 80	\$ (826)	\$ (928)	\$ (101)	\$ (21)	\$ 29	3 25%	\$ 0	\$ (1)
Oct-20	\$ (21)	\$ (732)	\$ (803)	\$ (71)	\$ (92)	\$ (57)	3 25%	\$ (0)	\$ (1)
Nov-20	\$ (92)	\$ (715)	\$ (712)	\$ 3	\$ (89)	\$ (91)	3 25%	\$ (0)	\$ (2)
Dec-20	\$ (89)	\$ (827)	\$ (695)	\$ 132	\$ 43	\$ (23)	3 25%	\$ (0)	\$ (2)
Jan-21	\$ 43	\$ (873)	\$ (804)	\$ 69	\$ 111	\$ 77	3 25%	\$ 0	\$ (2)
Feb-21	\$ 111	\$ (829)	\$ (969)	\$ (140)	\$ (29)	\$ 41	3 25%	\$ 0	\$ (1)
* Mar-21	\$ (29)	\$ (799)	\$ (777)	\$ 22	\$ (7)	\$ (18)	3 25%	\$ (0)	\$ (1)
* Apr-21	\$ (7)	\$ (734)	\$ (714)	\$ 20	\$ 14	\$ 3	3 25%	\$ 0	\$ (1)

Cumulative (Over)/Under Collection of Stranded Cost \$ 14

Rate M Streetlights	(Over)/ Under Beginning Balance	Stranded Cost Revenue (Refund)	CTC Expense (Credit)	Monthly (Over)/ Under	(Over)/ Under Ending Balance	Balance Subject to Interest	Interest Rate	Interest	Total Interest
Month	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
May-20	\$ (108)	\$ (234)	\$ (213)	\$ 21	\$ (87)	\$ (97)	3 25%	\$ (0)	\$ (0)
Jun-20	\$ (87)	\$ (236)	\$ (185)	\$ 51	\$ (36)	\$ (62)	3 25%	\$ (0)	\$ (0)
Jul-20	\$ (36)	\$ (286)	\$ (228)	\$ 58	\$ 22	\$ (7)	3 25%	\$ (0)	\$ (0)
Aug-20	\$ 22	\$ (279)	\$ (278)	\$ 2	\$ 23	\$ 22	3 25%	\$ 0	\$ (0)
Sep-20	\$ 23	\$ (242)	\$ (272)	\$ (30)	\$ (6)	\$ 9	3 25%	\$ 0	\$ (0)
Oct-20	\$ (6)	\$ (214)	\$ (235)	\$ (21)	\$ (27)	\$ (17)	3 25%	\$ (0)	\$ (0)
Nov-20	\$ (27)	\$ (209)	\$ (208)	\$ 1	\$ (26)	\$ (27)	3 25%	\$ (0)	\$ (0)
Dec-20	\$ (26)	\$ (242)	\$ (203)	\$ 39	\$ 12	\$ (7)	3 25%	\$ (0)	\$ (1)
Jan-21	\$ 12	\$ (255)	\$ (235)	\$ 20	\$ 33	\$ 22	3 25%	\$ 0	\$ (0)
Feb-21	\$ 33	\$ (243)	\$ (284)	\$ (41)	\$ (9)	\$ 12	3 25%	\$ 0	\$ (0)
* Mar-21	\$ (8)	\$ (234)	\$ (227)	\$ 6	\$ (2)	\$ (5)	3 25%	\$ (0)	\$ (0)
* Apr-21	\$ (2)	\$ (215)	\$ (209)	\$ 6	\$ 4	\$ 1	3 25%	\$ -	\$ (0)

Cumulative (Over)/Under Collection of Stranded Cost \$ 4

(a) May-20 ties to the deferral account balance, all other months are Prior Month Column (e) + Prior Month Column (h)

(b) Company billing system report; Includes adjustment factor

(c) Per Dockets DE 19-025 (May 19 - Dec 19) and DE 20-016 (Jan 20 - April 20)

(d) Expense (Column c) - Revenue (Column b)

(e) Column (a) + Column (d)

(f) [Column (a) + Column (e)] + 2

(g) Interest rate

(h) Column (f) x [Column (g) + 12]

(i) Column (h) + Prior Month Column (i)

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## Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities

## Stranded Cost Reconciliation

May 2020 - April 2021

Rate G-1	(Over)/ Under Beginning Balance	Stranded Cost Revenue (Refund)	CTC Expense (Credit)	Monthly (Over)/ Under	(Over)/ Under Ending Balance	Balance Subject to Interest	Interest Rate	Interest	Total Interest
Month	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
May-20	\$ (10,278)	\$ (22,305)	\$ (20,295)	\$ 2,009	\$ (8,269)	\$ (9,273)	3.25%	\$ (25)	\$ (25)
Jun-20	\$ (8,294)	\$ (22,474)	\$ (17,628)	\$ 4,847	\$ (3,447)	\$ (5,870)	3.25%	\$ (16)	\$ (41)
Jul-20	\$ (3,463)	\$ (27,208)	\$ (21,691)	\$ 5,518	\$ 2,055	\$ (704)	3.25%	\$ (2)	\$ (43)
Aug-20	\$ 2,053	\$ (26,619)	\$ (26,444)	\$ 174	\$ 2,227	\$ 2,140	3.25%	\$ 6	\$ (37)
Sep-20	\$ 2,233	\$ (23,047)	\$ (25,873)	\$ (2,826)	\$ (593)	\$ 820	3.25%	\$ 2	\$ (35)
Oct-20	\$ (591)	\$ (20,424)	\$ (22,403)	\$ (1,979)	\$ (2,570)	\$ (1,580)	3.25%	\$ (4)	\$ (39)
Nov-20	\$ (2,574)	\$ (19,940)	\$ (19,853)	\$ 87	\$ (2,487)	\$ (2,530)	3.25%	\$ (7)	\$ (46)
Dec-20	\$ (2,494)	\$ (23,063)	\$ (19,382)	\$ 3,681	\$ 1,187	\$ (653)	3.25%	\$ (2)	\$ (48)
Jan-21	\$ 1,186	\$ (24,332)	\$ (22,416)	\$ 1,915	\$ 3,101	\$ 2,143	3.25%	\$ 6	\$ (42)
Feb-21	\$ 3,107	\$ (23,109)	\$ (27,027)	\$ (3,918)	\$ (811)	\$ 1,148	3.25%	\$ 3	\$ (39)
* Mar-21	\$ (808)	\$ (22,284)	\$ (21,665)	\$ 619	\$ (189)	\$ (498)	3.25%	\$ (1)	\$ (40)
* Apr-21	\$ (190)	\$ (20,481)	\$ (19,912)	\$ 569	\$ 379	\$ 94	3.25%	\$ 0	\$ (40)

Cumulative (Over)/Under Collection of Stranded Cost \$ 379

Rate G-3	(Over)/ Under Beginning Balance	Stranded Cost Revenue (Refund)	CTC Expense (Credit)	Monthly (Over)/ Under	(Over)/ Under Ending Balance	Balance Subject to Interest	Interest Rate	Interest	Total Interest
Month	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
May-20	\$ (2,298)	\$ (4,988)	\$ (4,538)	\$ 449	\$ (1,849)	\$ (2,074)	3.25%	\$ (6)	\$ (6)
Jun-20	\$ (1,855)	\$ (5,026)	\$ (3,942)	\$ 1,084	\$ (771)	\$ (1,313)	3.25%	\$ (4)	\$ (9)
Jul-20	\$ (774)	\$ (6,084)	\$ (4,850)	\$ 1,234	\$ 459	\$ (157)	3.25%	\$ (0)	\$ (10)
Aug-20	\$ 459	\$ (5,952)	\$ (5,913)	\$ 39	\$ 498	\$ 479	3.25%	\$ 1	\$ (8)
Sep-20	\$ 499	\$ (5,154)	\$ (5,786)	\$ (632)	\$ (133)	\$ 183	3.25%	\$ 1	\$ (8)
Oct-20	\$ (132)	\$ (4,567)	\$ (5,010)	\$ (443)	\$ (575)	\$ (353)	3.25%	\$ (1)	\$ (9)
Nov-20	\$ (576)	\$ (4,459)	\$ (4,439)	\$ 20	\$ (556)	\$ (566)	3.25%	\$ (2)	\$ (10)
Dec-20	\$ (558)	\$ (5,157)	\$ (4,334)	\$ 823	\$ 265	\$ (146)	3.25%	\$ (0)	\$ (11)
Jan-21	\$ 265	\$ (5,441)	\$ (5,013)	\$ 428	\$ 693	\$ 479	3.25%	\$ 1	\$ (9)
Feb-21	\$ 695	\$ (5,168)	\$ (6,044)	\$ (876)	\$ (181)	\$ 257	3.25%	\$ 1	\$ (9)
* Mar-21	\$ (181)	\$ (4,983)	\$ (4,845)	\$ 138	\$ (42)	\$ (111)	3.25%	\$ (0)	\$ (9)
* Apr-21	\$ (43)	\$ (4,580)	\$ (4,453)	\$ 127	\$ 85	\$ 21	3.25%	\$ 0	\$ (9)

Cumulative (Over)/Under Collection of Stranded Cost \$ 85

Rate G-2	(Over)/ Under Beginning Balance	Stranded Cost Revenue (Refund)	CTC Expense (Credit)	Monthly (Over)/ Under	(Over)/ Under Ending Balance	Balance Subject to Interest	Interest Rate	Interest	Total Interest
Month	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
May-20	\$ (3,829)	\$ (8,311)	\$ (7,562)	\$ 749	\$ (3,081)	\$ (3,455)	3.25%	\$ (9)	\$ (9)
Jun-20	\$ (3,090)	\$ (8,374)	\$ (6,568)	\$ 1,806	\$ (1,284)	\$ (2,187)	3.25%	\$ (6)	\$ (15)
Jul-20	\$ (1,290)	\$ (10,138)	\$ (8,082)	\$ 2,056	\$ 766	\$ (262)	3.25%	\$ (1)	\$ (16)
Aug-20	\$ 765	\$ (9,918)	\$ (9,853)	\$ 65	\$ 830	\$ 797	3.25%	\$ 2	\$ (14)
Sep-20	\$ 832	\$ (8,587)	\$ (9,640)	\$ (1,053)	\$ (221)	\$ 306	3.25%	\$ 1	\$ (13)
Oct-20	\$ (220)	\$ (7,610)	\$ (8,347)	\$ (737)	\$ (958)	\$ (589)	3.25%	\$ (2)	\$ (15)
Nov-20	\$ (959)	\$ (7,430)	\$ (7,397)	\$ 33	\$ (927)	\$ (943)	3.25%	\$ (3)	\$ (17)
Dec-20	\$ (929)	\$ (8,593)	\$ (7,222)	\$ 1,372	\$ 442	\$ (243)	3.25%	\$ (1)	\$ (18)
Jan-21	\$ 442	\$ (9,066)	\$ (8,352)	\$ 714	\$ 1,155	\$ 799	3.25%	\$ 2	\$ (16)
Feb-21	\$ 1,158	\$ (8,611)	\$ (10,070)	\$ (1,460)	\$ (302)	\$ 428	3.25%	\$ 1	\$ (14)
* Mar-21	\$ (301)	\$ (8,303)	\$ (8,072)	\$ 231	\$ (70)	\$ (186)	3.25%	\$ (1)	\$ (15)
* Apr-21	\$ (71)	\$ (7,631)	\$ (7,419)	\$ 212	\$ 141	\$ 35	3.25%	\$ 0	\$ (15)

Cumulative (Over)/Under Collection of Stranded Cost \$ 141

Rate V	(Over)/ Under Beginning Balance	Stranded Cost Revenue (Refund)	CTC Expense (Credit)	Monthly (Over)/ Under	(Over)/ Under Ending Balance	Balance Subject to Interest	Interest Rate	Interest	Total Interest
Month	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
May-20	\$ (8)	\$ (18)	\$ (17)	\$ 2	\$ (7)	\$ (8)	3.25%	\$ (0)	\$ (0)
Jun-20	\$ (7)	\$ (18)	\$ (14)	\$ 4	\$ (3)	\$ (5)	3.25%	\$ (0)	\$ (0)
Jul-20	\$ (3)	\$ (22)	\$ (18)	\$ 4	\$ 2	\$ (1)	3.25%	\$ -	\$ (0)
Aug-20	\$ 2	\$ (22)	\$ (22)	\$ 0	\$ 2	\$ 2	3.25%	\$ -	\$ (0)
Sep-20	\$ 2	\$ (19)	\$ (21)	\$ (2)	\$ (0)	\$ 1	3.25%	\$ -	\$ (0)
Oct-20	\$ (0)	\$ (17)	\$ (18)	\$ (2)	\$ (2)	\$ (1)	3.25%	\$ -	\$ (0)
Nov-20	\$ (2)	\$ (16)	\$ (16)	\$ 0	\$ (2)	\$ (2)	3.25%	\$ (0)	\$ (0)
Dec-20	\$ (2)	\$ (19)	\$ (16)	\$ 3	\$ 1	\$ (1)	3.25%	\$ -	\$ (0)
Jan-21	\$ 1	\$ (20)	\$ (18)	\$ 2	\$ 3	\$ 2	3.25%	\$ -	\$ (0)
Feb-21	\$ 3	\$ (19)	\$ (22)	\$ (3)	\$ (1)	\$ 1	3.25%	\$ -	\$ (0)
* Mar-21	\$ (1)	\$ (18)	\$ (18)	\$ 1	\$ (0)	\$ (0)	3.25%	\$ -	\$ (0)
* Apr-21	\$ (0)	\$ (17)	\$ (16)	\$ 0	\$ 0	\$ 0	3.25%	\$ -	\$ (0)

Cumulative (Over)/Under Collection of Stranded Cost \$ 0

(a) May-20 ties to the deferral account balance, all other months are Prior Month Column (e) + Prior Month Column (h)

(b) Company billing system report; Includes adjustment factor

(c) Per Dockets DE 19-025 (May 19 - Dec 19) and DE 20-016 (Jan 20 - April 20)

(d) Expense (Column c) - Revenue (Column b)

(e) Column (a) + Column (d)

(f) [Column (a) + Column (e)] ÷ 2

(g) Interest rate

(h) Column (f) x [Column (g) + 12]

(i) Column (h) + Prior Month Column (i)

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**Liberty Utilities (Granite State Electric) d/b/a Liberty Utilities  
Transmission Charge Calculation**

	<b>Total</b>	<b>D</b>	<b>D-10</b>	<b>G-1</b>	<b>G-2</b>	<b>G-3</b>	<b>Streetlights</b>	<b>T</b>	<b>V</b>
[1] <b>Estimate of Transmission Expense</b>	<b>\$26,891,183</b>								
[2] <b>Coincident Peak (KW)</b>	1,749,718	646,190	9,330	655,684	261,052	149,209	4,909	22,884	460
[3] <b>Coincident Peak Allocator</b>	100.00%	36.93%	0.53%	37.47%	14.92%	8.53%	0.28%	1.31%	0.03%
[4] <b>Allocated Transmission Expense</b>	\$26,891,183	\$9,931,208	\$143,392	\$10,077,120	\$4,012,073	\$2,293,173	\$75,446	\$351,701	\$7,070
[5] <b>Forecasted kWh Sales</b>	879,426,489	284,513,526	5,441,648	367,232,595	125,159,740	79,307,937	3,836,676	13,619,228	315,138
[6] <b>Proposed Transmission Charge per kWh</b>	<b>\$0.03057</b>	<b>\$0.03490</b>	<b>\$0.02635</b>	<b>\$0.02744</b>	<b>\$0.03205</b>	<b>\$0.02891</b>	<b>\$0.01966</b>	<b>\$0.02582</b>	<b>\$0.02243</b>
[7] <b>Current Transmission Charge per kWh</b>	\$0.02545	\$0.02834	\$0.02443	\$0.02239	\$0.02727	\$0.02724	\$0.01694	\$0.02794	\$0.02675
[8] <b>Increase (Decrease) in Transmission Charge per kWh</b>	<b>\$0.00512</b>	<b>\$0.00656</b>	<b>\$0.00192</b>	<b>\$0.00505</b>	<b>\$0.00478</b>	<b>\$0.00167</b>	<b>\$0.00272</b>	<b>(\$0.00212)</b>	<b>(\$0.00432)</b>

- [1] Schedule JDW-1, Line (10)  
[2] Schedule DBS/AMH-3, Page 2 of 7  
[3] Line (2) as a percent of total Line (2)  
[4] Line (1) x Line (3)  
[5] Per Company Forecast  
[6] Line (4) + Line (5), truncated after 5 decimal places  
[7] Per Currently Effective Tariffs  
[8] Line (6) - Line (7)

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty  
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**Liberty Utilities (Granite State Electric) d/b/a Liberty Utilities**  
**Transmission Charge Calculation**  
**Coincident Peak Data**

	<b>Total</b>	<b>D</b>	<b>D-10</b>	<b>G-1</b>	<b>G-2</b>	<b>G-3</b>	<b>Streetlights</b>	<b>T</b>	<b>V</b>
Jan-20	138,507	59,606	818	43,862	18,345	12,691	931	2,201	53
Feb-20	130,986	52,752	793	42,762	18,928	12,539	928	2,236	48
Mar-20	120,596	48,783	1,026	38,168	17,550	11,144	957	2,927	41
Apr-20	109,357	39,354	654	43,026	15,370	9,263	6	1,652	32
May-20	153,734	54,473	671	65,178	19,874	12,033	7	1,465	33
Jun-20	177,464	54,501	690	72,934	29,633	18,236	7	1,410	53
Jul-20	186,795	71,324	786	68,799	29,460	14,771	5	1,605	45
Aug-20	189,183	73,086	830	71,631	27,564	14,289	6	1,734	43
Sep-20	152,104	45,714	607	68,783	24,446	11,196	6	1,321	31
Oct-20	117,925	45,203	782	41,099	17,467	10,667	652	2,032	23
Nov-20	132,880	46,808	748	51,599	20,782	10,385	721	1,811	26
Dec-20	<u>140,187</u>	<u>54,586</u>	<u>925</u>	<u>47,843</u>	<u>21,633</u>	<u>11,995</u>	<u>683</u>	<u>2,490</u>	<u>32</u>
Total	1,749,718	646,190	9,330	655,684	261,052	149,209	4,909	22,884	460

Source: Company Load Data

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty  
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**Liberty Utilities (Granite State Electric) d/b/a Liberty Utilities  
Transmission Charge Reconciliation  
May 2020 - April 2021**

Month	(Over)/Under Beginning Balance	Transmission Revenue	Transmission Expense	Monthly (Over)/Under	(Over)/Under Ending Balance	Balance Subject to Interest	Interest Rate	Interest	Cumulative Interest
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
May-20	\$36,418	\$1,520,935	\$1,879,659	\$358,724	\$395,142	\$215,780	3.25%	\$584	\$584
Jun-20	\$395,726	\$1,843,261	\$2,964,575	\$1,121,314	\$1,517,041	\$956,384	3.25%	\$2,590	\$3,175
Jul-20	\$1,519,631	\$2,260,517	\$3,155,187	\$894,670	\$2,414,301	\$1,966,966	3.25%	\$5,327	\$8,502
Aug-20	\$2,419,628	\$2,220,033	\$2,325,269	\$105,236	\$2,524,864	\$2,472,246	3.25%	\$6,696	\$15,197
Sep-20	\$2,531,560	\$1,908,664	\$1,916,179	\$7,515	\$2,539,075	\$2,535,318	3.25%	\$6,866	\$22,064
Oct-20	\$2,545,942	\$1,681,957	\$1,605,233	(\$76,724)	\$2,469,217	\$2,507,580	3.25%	\$6,791	\$28,855
Nov-20	\$2,476,009	\$1,654,609	\$1,998,383	\$343,773	\$2,819,782	\$2,647,895	3.25%	\$7,171	\$36,027
Dec-20	\$2,826,954	\$1,917,689	\$2,192,094	\$274,405	\$3,101,359	\$2,964,156	3.25%	\$8,028	\$44,055
Jan-21	\$3,109,387	\$2,040,795	\$1,877,369	(\$163,427)	\$2,945,960	\$3,027,673	3.25%	\$8,200	\$52,255
Feb-21	\$2,954,160	\$1,939,749	\$1,921,385	(\$18,364)	\$2,935,796	\$2,944,978	3.25%	\$7,976	\$60,231
* Mar-21	\$2,943,772	\$1,841,960	\$2,005,846	\$163,886	\$3,107,658	\$3,025,715	3.25%	\$8,195	\$68,425
* Apr-21	\$3,115,852	<u>\$1,692,919</u>	<u>\$1,887,169</u>	\$194,250	\$3,310,103	\$3,212,978	3.25%	\$8,702	\$77,127
		\$22,523,088	\$25,728,347						

**Projected Cumulative (Over)/Under Collection of Transmission Charge: \$3,318,805**

- (a) May-20 ties to the deferral account balance, all other months are Prior Month Column (e) + Prior Month Column (h)
- (b) Company financials
- (c) Company financials
- (d) Column (c) - Column (b)
- (e) Column (a) + Column (d)
- (f) [Column (a) + Column (e)] ÷ 2
- (g) Interest rate on customer deposits
- (h) Column (f) x [Column (g) + 12]
- (i) Column (h) + Prior Month Column (i)
- \* Projected

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty  
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**Liberty Utilities (Granite State Electric) d/b/a Liberty Utilities  
Calculation of Transmission Service Cost Adjustment  
Effective May 1, 2021 - April 30, 2022**

<b>[1] Transmission Service (Over)/Under Collection</b>	<b>\$3,318,805</b>
<b>[2] Working Capital</b>	<b>(\$8,590)</b>
<b>[3] Total</b>	<b>\$3,310,214</b>
<b>[4] Forecast kWh Deliveries</b>	<b><u>879,426,489</u></b>
<b>[5] Transmission Service Cost Adjustment per kWh</b>	<b>\$0.00376</b>

[1] Schedule DBS/AMH-3 Page 3

[2] Schedule DBS/AMH-3 Page 5

[3] Line (1) + Line (2)

[4] Per Company forecast

[5] Line (3) ÷ Line (4), truncated after 5 decimal places

**Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty**  
**Transmission Service Cost Adjustment**  
**Working Capital Calculation**

	Days of <u>Cost</u> (a)	Invoice Payment <u>Lag %</u> (b)	Customer Payment <u>Lag %</u> (c)	<u>CWC %</u> (d)	<u>Expense</u> (e)	Working Capital <u>Requirement</u> (f)
[1] 2020 Transmission Costs	(62.23)	-17.00%	16.66%	-0.34%	\$26,891,183	(\$91,822)
[2] Working Capital Requirement						(\$91,822)
[3] Capital Structure Post-tax						7.60%
[4] Working Capital Impact						(\$6,976)
[5] Capital Structure Pre-tax						<u>9.36%</u>
[6] Working Capital Impact						(\$8,590)

Columns:

- [1](a) DBS/AMH-3 Page 6  
(b) Column (a) ÷ 366  
(c) DBS/AMH-3 Page 7  
(d) Column (b) + Column (c)  
[1](e) DBS/AMH-3 Page 1  
(f) Column (d) x Column (e)

Lines:

- [3] Per Settlement Agreement Docket No. DE 19-064  
[4] Line (2) x Line (3)  
[5] Per Settlement Agreement Docket No. DE 19-064  
[6] Line (2) x Line (5)



Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty  
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**Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty**  
**Transmission Service Cost Adjustment**  
**Working Capital Calculation**  
**Expense Lead/Lag**

	Bill Receipt	Expense	Invoice	Service Period	Payment	Elapsed	% of	Weighted
	<u>Date</u>	<u>Description</u>	<u>Amount</u>	<u>Mid-Point</u>	<u>Date</u>	<u>(Days)</u>	<u>Total</u>	<u>Days</u>
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
[1]	Dec-19	NEP LNS Bill	\$ 481,780.48	11/15/2019	1/13/2020	59	1.93%	1.14
[2]	Jan-20	ISO RNS-Bill	\$ 1,333,784.77	11/15/2019	1/15/2020	61	5.35%	3.26
[3]	Jan-20	NEP LNS Bill	\$ 524,639.17	12/16/2019	2/21/2020	67	2.10%	1.41
[4]	Feb-20	ISO RNS-Bill	\$ 1,415,673.03	12/16/2019	2/20/2020	66	5.68%	3.75
[5]	Feb-20	NEP LNS Bill	\$ 538,821.93	1/16/2020	3/20/2020	64	2.16%	1.38
[6]	Mar-20	ISO RNS-Bill	\$ 1,376,608.23	1/16/2020	3/18/2020	62	5.52%	3.42
[7]	Mar-20	NEP LNS Bill	\$ 573,915.98	2/14/2020	4/20/2020	66	2.30%	1.52
[8]	Apr-20	ISO RNS-Bill	\$ 1,312,569.63	2/14/2020	4/15/2020	61	5.26%	3.21
[9]	Apr-20	NEP LNS Bill	\$ 568,231.03	3/16/2020	5/22/2020	67	2.28%	1.53
[10]	May-20	ISO RNS-Bill	\$ 1,212,848.59	3/16/2020	5/13/2020	58	4.86%	2.82
[11]	May-20	NEP LNS Bill	\$ 660,912.49	4/15/2020	6/22/2020	68	2.65%	1.80
[12]	Jun-20	ISO RNS-Bill	\$ 1,101,711.05	4/15/2020	6/17/2020	63	4.42%	2.78
[13]	Jun-20	NEP LNS Bill	\$ 1,026,032.14	5/16/2020	7/20/2020	65	4.11%	2.67
[14]	Jul-20	ISO RNS-Bill	\$ 1,542,037.01	5/16/2020	7/15/2020	60	6.18%	3.71
[15]	Jul-20	NEP LNS Bill	\$ 839,894.27	6/15/2020	8/21/2020	67	3.37%	2.26
[16]	Aug-20	ISO RNS-Bill	\$ 2,031,793.50	6/15/2020	8/12/2020	58	8.15%	4.73
[17]	Aug-20	NEP LNS Bill	\$ 205,750.66	7/16/2020	9/21/2020	67	0.83%	0.55
[18]	Sep-20	ISO RNS-Bill	\$ 2,154,878.37	7/16/2020	9/16/2020	62	8.64%	5.36
[19]	Sep-20	NEP LNS Bill	\$ 157,635.61	8/16/2020	10/20/2020	65	0.63%	0.41
[20]	Oct-20	ISO RNS-Bill	\$ 2,145,557.08	8/16/2020	10/15/2020	60	8.60%	5.16
[21]	Oct-20	NEP LNS Bill	\$ 228,909.98	9/15/2020	11/20/2020	66	0.92%	0.61
[22]	Nov-20	ISO RNS-Bill	\$ 1,747,203.07	9/15/2020	11/17/2020	63	7.01%	4.41
[23]	Nov-20	NEP LNS Bill	\$ 406,161.59	10/16/2020	12/18/2020	63	1.63%	1.03
[24]	Dec-20	ISO RNS-Bill	\$ 1,350,910.80	10/16/2020	12/16/2020	61	5.42%	3.30
[25]		Total	\$24,938,260				Days	62.23

Columns:

- (a) Month in which obligation for payment occurred
- (b) Per invoices
- (c) Per invoices
- (d) Applicable service period
- (e) Per invoices
- (f) Column (e) - Column (d)
- (g) Column (c) / Column (c) Line 25
- (h) Column (f) x Column (g)

**Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty**  
**Revenue Lead/Lag Applied to Transmission and Stranded Cost Mechanisms**

<u>Service Period</u>		Monthly Customer <u>Accts.Receivable</u>	Monthly <u>Sales</u>	Days <u>In Month</u>	Average <u>Daily Revenues</u>
		(a)	(b)	(c)	(d)
1/1/2020	1/31/2020	\$11,871,159	\$9,127,734	31	\$294,443
2/1/2020	2/29/2020	\$11,574,393	\$8,351,443	29	\$287,981
3/1/2020	3/31/2020	\$10,946,896	\$7,952,974	31	\$256,548
4/1/2020	4/30/2020	\$10,622,685	\$7,389,731	30	\$246,324
5/1/2020	5/31/2020	\$9,722,410	\$6,548,999	31	\$211,258
6/1/2020	6/30/2020	\$10,602,030	\$7,442,641	30	\$248,088
7/1/2020	7/31/2020	\$12,527,392	\$9,175,627	31	\$295,988
8/1/2020	8/31/2020	\$13,003,472	\$9,480,429	31	\$305,820
9/1/2020	9/30/2020	\$11,770,270	\$8,010,405	30	\$267,014
10/1/2020	10/31/2020	\$10,713,997	\$6,995,628	31	\$225,665
11/1/2020	11/30/2020	\$10,761,620	\$7,122,662	30	\$237,422
12/1/2020	12/31/2020	\$11,506,872	\$8,306,619	31	\$267,955
Average		\$11,301,933			\$262,042
[1] Service Lag					15.25
[2] Collection Lag					43.13
[3] Billing Lag					<u>2.59</u>
[4] Total Average Days Lag					60.97
[5] Customer Payment Lag-annual percent					16.66%

Columns:

- (a) Accounts Receivable per general ledger at end of applicable month  
 (b) Per Company billing data  
 (c) Number of days in applicable service period  
 (d) Column (b) ÷ Column (c)

Lines:

- [1] Per Settlement Agreement Docket No. DE 19-064  
 [2] (a) / (d)  
 [3] Per Settlement Agreement Docket No. DE 19-064  
 [4] Line (1) + Line (2) + Line (3)  
 [5] Line (5) ÷ 366

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**Liberty Utilities (Granite State Electric) d/b/a Liberty Utilities  
Calculation of RGGI Auction Proceeds Refund**

	Month	Beginning Balance With Interest	RGGI Rebate	Actual Refund	Ending Balance	Balance Subject to Interest	Effective Interest Rate	Interest	Cumulative Interest
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
[1]	May-20	(\$524,243)	(\$279,407)	(\$96,927)	(\$706,724)	(\$615,483)	3.25%	(\$1,667)	(\$1,667)
[2]	Jun-20	(\$708,391)		(\$111,401)	(\$596,990)	(\$652,690)	3.25%	(\$1,768)	(\$3,435)
[3]	Jul-20	(\$598,758)	(\$318,872)	(\$135,512)	(\$782,117)	(\$690,438)	3.25%	(\$1,870)	(\$5,305)
[4]	Aug-20	(\$783,987)		(\$132,580)	(\$651,407)	(\$717,697)	3.25%	(\$1,944)	(\$7,248)
[5]	Sep-20	(\$653,351)		(\$114,797)	(\$538,554)	(\$595,953)	3.25%	(\$1,614)	(\$8,862)
[6]	Oct-20	(\$540,168)	(\$349,710)	(\$101,730)	(\$788,149)	(\$664,158)	3.25%	(\$1,799)	(\$10,661)
[7]	Nov-20	(\$789,947)		(\$99,317)	(\$690,630)	(\$740,289)	3.25%	(\$2,005)	(\$12,666)
[8]	Dec-20	(\$692,635)		(\$114,865)	(\$577,770)	(\$635,203)	3.25%	(\$1,720)	(\$14,386)
[9]	Jan-21	(\$579,491)	(\$385,161)	(\$121,179)	(\$843,473)	(\$711,482)	3.25%	(\$1,927)	(\$16,313)
[10]	Feb-21	(\$845,399)		(\$115,093)	(\$730,306)	(\$787,853)	3.25%	(\$2,134)	(\$18,447)
[11]	* Mar-21	(\$732,440)		(\$111,014)	(\$621,426)	(\$676,933)	3.25%	(\$1,833)	(\$20,280)
[12]	* Apr-21	(\$623,259)		(\$102,032)	(\$521,228)	(\$572,244)	3.25%	(\$1,550)	(\$21,830)
[13]	Auction Proceeds 5/1/20 - 4/30/21:			(\$1,333,151)	Sum of Column (b)				
[14]	Estimated Refund 5/1/20 - 4/30/21			(\$1,356,447)	Sum of Column (c)				
[15]	Remaining Refund Through 4/30/21			(\$522,778)	Line 12 Column (d) + Line 12 Column (g)				
[16]	Estimated Auction Proceeds 5/1/21 - 4/30/22			<u>(\$1,333,151)</u>	Assumes the same as actual proceeds from 5/1/20 - 4/30/21				
[17]	Total Estimated RGGI Refund			(\$1,855,928)	Line 15 + Line 16				
[18]	Projected kWh			879,426,489	Company Forecast				
[19]	<b>RGGI Refund Rate Effective 5/1/2021</b>			<b>(\$0.00211)</b>	Line 19 / Line 20				

- (a) May-20 ties to the deferral account balance, all other months are Prior Month Column (e) + Prior Month Column (h)
- (b) Company financials
- (c) Company financials
- (d) Column (a) - [(Column (c) - Column (b))]
- (e) Average of Column (a) and Column (c)
- (f) Interest rate on customer deposits
- (g) Column (e) x [Column (f) ÷ 12]
- (h) Prior month Column (h) + Current month Column (g)
- \* Estimate

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**Liberty Utilities (Granite State Electric) d/b/a Liberty Utilities  
Net Metering Lost Revenue Calculation**

Rate Year	2019 & 2020 New Net Meter Credits	2019 Banked Payment	2019 & 2020 Group Host Payment	Forecasted Distribution (kWh)	Total Net Metering Lost Revenue	Transmission Rate LBR Portion (\$/kWh)
Col. A	Col. B	Col. C	Col. D	Col. E	Col. F	Col. G
2021	\$ 226,268	\$ 15,423	\$ 180,042	879,426,489	\$ 421,733	\$ 0.00048

Col. A: Effective year (May 1, 2021 - April 31, 2022)  
Col. B: Credits to Net Meter Customers new in 2019 or 2020  
Col. C: 2019 payments made for banked kWh's  
Col. D: 2019 & 2020 payments made to Group Host's

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty  
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**Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities**  
**Typical Residential Customer**  
**Retail Rate Filing Bill Comparison**

Usage 650 kWh

	Current Rates	Proposed Rates	Current Bill	Proposed Bill
Customer Charge	\$14.74	\$14.74	\$14.74	\$14.74
Distribution Charge				
Base	\$0.05705	\$0.05705	\$37.08	\$37.08
VMP	\$0.00008	\$0.00008	\$0.05	\$0.05
Storm Recovery Adjustment	\$0.00000	\$0.00000	\$0.00	\$0.00
Transmission Charge	\$0.02660	\$0.03703	\$17.29	\$24.07
Stranded Cost Charge	(\$0.00072)	(\$0.00080)	-\$0.47	-\$0.52
System Benefits Charge	\$0.00678	\$0.00678	\$4.41	\$4.41
Electricity Consumption Tax	\$0.00000	\$0.00000	\$0.00	\$0.00
Subtotal Retail Delivery Services	\$0.08979	\$0.10014	\$73.10	\$79.83
Default Service Charge	\$0.06426	\$0.06426	\$41.77	\$41.77
Total Bill			\$114.87	\$121.60
<hr/>				
<b>\$ increase in 650 kWh Total Residential Bill</b>			<b>\$6.73</b>	
<b>% increase in 650 kWh Total Residential Bill</b>			<b>5.86%</b>	

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty  
Docket No. DE 21-\_\_\_\_  
Schedule DBS/AMH-6  
Page 2 of 2

**Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities**  
**Typical Residential Customer**  
**Bill Comparison for Proposed Rates Effective May 1, 2021**

Usage 650 kWh

	Current Rates	Proposed Rates	Current Bill	Proposed Bill	\$ Change	Total Bill % Change
Customer Charge	\$14.74	\$14.74	\$14.74	\$14.74	\$0.00	0.00%
Distribution Charge						
Base	\$0.05705	\$0.05741	\$37.08	\$37.32	\$0.23	0.20%
VMP	\$0.00008	\$0.00064	\$0.05	\$0.42	\$0.36	0.32%
Storm Recovery Adjustment	\$0.00000	\$0.00000	\$0.00	\$0.00	\$0.00	0.00%
Transmission Charge	\$0.02660	\$0.03703	\$17.29	\$24.07	\$6.78	5.90%
Stranded Cost Charge	(\$0.00072)	(\$0.00080)	-\$0.47	-\$0.52	-\$0.05	-0.04%
System Benefits Charge	\$0.00678	\$0.00678	\$4.41	\$4.41	\$0.00	0.00%
Electricity Consumption Tax	\$0.00000	\$0.00000	\$0.00	\$0.00	\$0.00	0.00%
Subtotal Retail Delivery Services	\$0.08979	\$0.10106	\$73.10	\$80.43	\$7.33	6.38%
Default Service Charge	\$0.06426	\$0.06426	\$41.77	\$41.77	\$0.00	0.00%
Total Bill (a)			\$114.87	\$122.20	\$7.33	6.38%

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**\$ increase in 650 kWh Total Residential Bill                      \$7.33**  
**% increase in 650 kWh Total Residential Bill                      6.38%**

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(a) Includes proposed REP/VMP rates in Docket No. DE 21-049 filed 3/15/21

NHPUC NO. 21 - ELECTRICITY DELIVERY  
LIBERTY UTILITIES

Second Revised Page 90  
Superseding First Revised Page 90  
Rate D

**Rate D**

Availability

Retail Delivery Service under this rate is available for all domestic purposes in an individual private dwelling or an individual apartment and for farm purposes. If electricity is delivered through more than one meter, the charge for electricity delivered through each meter shall be computed separately under this rate.

Character of Service

Service supplied under this rate will be single phase, 60 cycle, alternating current, normally three-wire service at a nominal voltage of 120/240 volts or three-wire 120/208 volts, whichever is available at the location.

Rate Per Month

The rate per month will be the sum of the applicable Customer and Energy Charges subject to the adjustments in this tariff:

Rates for Retail Delivery Service

Customer Charge \$14.74 per month

Energy Charges Per Kilowatt-Hour (cents per kilowatt-hour)

Distribution Charge All kWh	5.741
Reliability Enhancement/Vegetation Management	0.064
Total Distribution All kWh	5.805
Transmission Charge	3.703
Stranded Cost Charge	(0.080)
Storm Recovery Adjustment Factor	0.000

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Susan L. Fleck

Effective: May 1, 2021

Title: President

NHPUC NO. 21 - ELECTRICITY DELIVERY  
LIBERTY UTILITIES

Second Revised Page 91  
Superseding First Revised Page 91  
Rate D

Off-Peak Use: 16 Hour Control

For all electricity separately metered and delivered between the hours of 11:00 p.m. on each day and 7:00 a.m. on the next day, the price of such electricity shall be:

Energy Charges Per Kilowatt-Hour (cents per kilowatt-hour)

Distribution Charge Off Peak Use	4.957
Reliability Enhancement/Vegetation Management	0.064
Total Distribution	5.021
Transmission Charge	3.703
Stranded Cost Charge	(0.080)
Storm Recovery Adjustment Factor	0.000

If a Customer has installed an electric water heater of a type approved by the Company, electricity is delivered to such water heater is supplied only under this rate.

Off-Peak Use: 6 Hour Control

For all electricity separately metered and subject to the Company's right to limit the operation of the bottom water heating element up to 6 hours a day, the price of such electricity shall be:

Energy Charges Per Kilowatt-Hour (cents per kilowatt-hour)

Distribution Charge Off Peak Use	5.049
Reliability Enhancement/Vegetation Management	0.064
Total Distribution	5.113
Transmission Charge	3.703
Stranded Cost Charge	(0.080)
Storm Recovery Adjustment Factor	0.000

If a Customer has installed an electric water heater of a type approved by the Company, and electricity delivered to such water heater is supplied only under this rate

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Farm Use

The availability of the Farm Use Section is limited to those locations which were served under the Farm Use Section of Domestic Rate D, N.H.P.U.C. No. 8 - Electricity immediately prior to the effective date of this rate. For such farm customers, where all electricity is supplied by the Company, the RATE PER MONTH is modified as follows:

Energy Charges Per Kilowatt-Hour (cents per kilowatt-hour)

Distribution Charge*	5.419
Reliability Enhancement/Vegetation Management	0.064
Total Distribution	5.483
Transmission Service Cost Adjustment	3.703
Stranded Cost Adjustment Factor	(0.080)
Storm Recovery Adjustment Factor	0.000

\*All Regular Use kilowatt-hours in excess of the greater of the following:

- i. 500 kilowatt-hours
- ii. 100 kilowatt-hours per kilovolt-ampere of transformer capacity needed to serve the Customer

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### **Rate D-10 Optional Peak Load Rate**

#### Availability

Retail Delivery Service under this rate is available for all domestic purposes in an individual private dwelling or an individual apartment and for farm purposes to selected customers presently served under Rate D.

If electricity is delivered through more than one meter, the charge for electricity delivered through each meter shall be computed separately under this rate. The availability of this rate will be subject to the Company's ability to obtain the necessary meters and to render such service.

#### Character of Service

Service supplied under this rate will be single phase, 60 cycle, alternating current, normally three-wire service at a nominal voltage of 120/240 volts or three-wire 120/208 volts, whichever is available at the location.

#### Rate Per Month

The rate per month will be the sum of the applicable Customer and Energy Charges subject to the adjustments in this tariff:

#### Rates for Retail Delivery Service

Customer Charge	\$14.74 per month
-----------------	-------------------

#### Energy Charges Per Kilowatt-Hour (cents per kilowatt-hour)

Distribution Charge On Peak	12.215
Distribution Charge Off Peak	0.165
Reliability Enhancement/Vegetation Management	0.064
Total Distribution Charge On Peak	12.279
Total Distribution Charge Off Peak	0.229
Transmission Charge	2.848
Stranded Cost Charge	(0.080)
Storm Recovery Adjustment Factor	0.000

Peak hours will be from 8:00 a.m. to 9:00 p.m. daily on Monday through Friday excluding holidays.

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Susan L. Fleck  
Title: President

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Rates for Retail Delivery Service

Customer Charge \$428.73 per month

Energy Charges Per Kilowatt-Hour (cents per kilowatt-hour)

Distribution Charge On Peak	0.582
Distribution Charge Off Peak	0.172
Reliability Enhancement/Vegetation Management	0.064
Total Distribution Charge On Peak	0.646
Total Distribution Charge Off Peak	0.236
Transmission Charge	2.957
Stranded Cost Charge	(0.080)
Storm Recovery Adjustment Factor	0.000

Demand Charges Per Kilowatt

Distribution \$9.10

Distribution Energy Charges Peak Periods

Peak hours will be from 8:00 a.m. to 9:00 p.m. daily on Monday through Friday excluding holidays.

Off-Peak hours will be from 9:00 p.m. to 8:00 a.m. daily Monday through Friday, and all day on Saturdays, Sundays, and holidays.

Demand

The Demand for each month under ordinary load conditions shall be the greatest of the following:

1. The greatest fifteen-minute peak during the peak hours which occurs during such month as measured in kilowatts,
2. 90% of the greatest fifteen-minute peak during the peak hours occurring during such month as measured in kilovolt-amperes where the Customer's kilowatt Demand exceeds 75 kilowatts, or
3. 80% of the greatest Demand as so determined above during the preceding eleven months.

Any Demands established during the eleven (11) months prior to the application of this rate shall be considered as having been established under this rate.

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Transmission Charge	3.418
Stranded Cost Charge	(0.080)
Storm Recovery Adjustment Factor	0.000

Demand Charges Per Kilowatt

Distribution	\$9.15
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Demand

The Demand for each month under ordinary load conditions shall be the greatest of the following:

1. The greatest fifteen-minute peak during the peak hours which occurs during such month as measured in kilowatts,
2. 90% of the greatest fifteen-minute peak occurring during such month as measured in kilovolt-amperes where the Customer's kilowatt Demand exceeds 75 kilowatts, or
3. 80% of the greatest Demand as so determined above during the preceding eleven months.

Any Demands established during the eleven months prior to the application of this rate shall be considered as having been established under this rate.

Optional Determination of Demand

However, a Customer who has been served hereunder for one year or more may upon written request have the Demand for each month, beginning with the next month after such request and running for a period of not less than two consecutive months, be based upon the greatest of items a) or b) above. In such case, the Demand Charge and the Energy Charge will be increased by 20% during such period.

High Voltage Metering Adjustment

The Company reserves the right to determine the metering installation. Where service is metered at the Company's supply line voltage, in no case less than 2400 volts, thereby saving the Company transformer losses, a discount of 1% will be allowed from the amount determined under the preceding provisions.

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NHPUC NO. 21 - ELECTRICITY DELIVERY  
LIBERTY UTILITIES

Second Revised Page 101  
Superseding First Revised Page 101  
Rate G-3

### General Service Rate G-3

#### Availability

Retail Delivery Service under this rate is available for all purposes except resale. The sale of electric vehicle charging services to a third party from an electric vehicle charging station shall not be considered resale of electricity. A Customer will take delivery service on this rate if the Company estimates that its average use will be less than 20 kW of demand. If electricity is delivered through more than one meter, except at the Company's option, the charge for electricity delivered through each meter shall be computed separately under this rate.

#### Character of Service

Service supplied under this rate will be 60 cycle, alternating current either:

- a) Single-phase normally three-wire at a nominal voltage of 120/240 volts.
- b) Three-phase secondary normally at a nominal voltage of 120/208, or 277/480 volts.
- c) Three-phase primary normally at a nominal voltage of 2400, 4160, 4800, 7200, 13,200 or 13,800 volts.

All voltages are not available in every area.

#### Rate Per Month

The rate per month will be the sum of the Customer and Energy Charges subject to the adjustments in this tariff:

#### Rates for Retail Delivery Service

Customer Charge \$16.43 per month

#### Energy Charges Per Kilowatt-Hour (cents per kilowatt-hour)

Distribution Charge	5.205
Reliability Enhancement/Vegetation Management	0.064
Total Distribution Charge	5.269
Transmission Charge	3.104
Stranded Cost Charge	(0.080)
Storm Recovery Adjustment Factor	0.000

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NHPUC NO. 21 - ELECTRICITY DELIVERY  
LIBERTY UTILITIES

Second Revised Page 104  
Superseding First Revised Page 104  
Rate T

Character of Service

Service supplied under this rate will be single phase, 60 cycle, alternating current, normally three-wire service at a nominal voltage of 120/240 volts or three-wire 120/208 volts, whichever is available at the location.

Rate Per Month

The rate per month will be the sum of the applicable Customer and Energy Charges subject to the adjustments in this tariff.

Rates for Retail Delivery Service

Customer Charge \$14.74 per month

Energy Charges Per Kilowatt-Hour (cents per kilowatt-hour)

Distribution Charge	4.657
Reliability Enhancement/Vegetation Management	0.064
Total Distribution Charge	4.721
Transmission Charge	2.795
Stranded Cost Charge	(0.080)
Storm Recovery Adjustment Factor	0.000

Terms of Agreement

A Customer served under this rate must provide the Company with one-year prior written notice before installing additional generation for its own use. This notice provision shall be waived with respect to the installation of on-site non-emergency generation from renewable energy resources. Renewable energy resources shall mean fuel cells (including natural gas powered fuel cells), and emerging power generation technologies that produce electricity from wind energy, solar energy, small-scale hydro power, ocean power, landfill gas, sustainably managed biomass, and future clean renewable technologies.

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President

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Rates for Retail Delivery Service

Customer Charge \$16.43 per month

Energy Charges Per Kilowatt-Hour (cents per kilowatt-hour)

Distribution Charge 5.354

Reliability Enhancement/Vegetation Management 0.064

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Total Distribution Charge 5.418

Transmission Charge 2.456

Stranded Cost Charge (0.080)

Storm Recovery Adjustment Factor 0.000

Terms of Agreement

A Customer served under this rate must provide the Company with one-year prior written notice before installing additional on-site, non-emergency generation for its own use. This notice provision shall be waived with respect to the installation of on-site non-emergency generation from renewable energy resources. Renewable energy resources shall mean fuel cells (including natural gas powered fuel cells), and emerging power generation technologies that produce electricity from wind energy, solar energy, small-scale hydro power, ocean power, landfill gas, sustainably managed biomass, and future clean renewable technologies.

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## Outdoor Lighting Service Rate M

### Availability

#### *Public Lighting*

Available for Street or Highways and areas within the public domain for customers designated as governmental entities, inclusive of the state, municipalities, or other public authorities. Installations on limited access highways, tunnels, bridges and the access and egress ramps thereto are subject to the Special Rate Conditions of this tariff.

#### *Private Lighting*

Available to private customers for outdoor lighting of areas on private property where necessary fixtures can be supported on existing poles and where such service can be supplied from existing secondary distribution facilities.

In special circumstances outlined in the pole and accessory section below, the Company will install a wooden pole.

#### *Lighting Services*

Service under this rate is for full-night service street lighting whereby the luminaire operates for the entire night time period pursuant to the Hours of Operation provision below. In addition, customers may, at their option, take advantage of part-night service in which the luminaire operates for a portion of the night pursuant to the Hours of Operation provision below. Customers may select the part-night service option at the time of lighting installation or at any time during service. Any request to select the part-time night service option must be made in writing.

### Energy Charges Per Kilowatt-Hour (cents per kilowatt-hour)

Distribution Charge	4.003
Reliability Enhancement/Vegetation Management	0.064
<hr/>	
Total Distribution	4.067
 Transmission Charge	 2.179
Stranded Cost Charge	(0.080)
Storm Recovery Adjustment Factor	0.000

No further installation or relocation of Incandescent and Mercury Vapor lights will be made after the effective date of this rate.

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Title: President

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### Outdoor Lighting Service Rate LED-1

#### Availability

##### *Public Lighting*

Available for Street or Highways and areas within the public domain for customers designated as governmental entities, inclusive of the state, municipalities, or other public authorities. Installations on limited access highways, tunnels, bridges and the access and egress ramps thereto are subject to the Special Rate Conditions of this tariff.

##### *Private Lighting*

Available to private customers for outdoor lighting of areas on private property where necessary fixtures can be supported on existing poles and where such service can be supplied from existing secondary distribution facilities.

In special circumstances outlined in the pole and accessory section below, the Company will install a wooden pole.

##### *Lighting Services*

Service under this rate is for full-night service street lighting whereby the luminaire operates for the entire night time period pursuant to the Hours of Operation provision below. In addition, customers may, at their option, take advantage of part-night service in which the luminaire operates for a portion of the night pursuant to the Hours of Operation provision below. Customers may select the part-night service option at the time of lighting installation or at any time during service. Any request to select the part-time night service option must be made in writing.

#### Energy Charges Per Kilowatt-Hour (cents per kilowatt-hour)

Distribution Charge	4.003
Reliability Enhancement/Vegetation Management	0.064
Total Distribution	4.067
Transmission Charge	2.179
Stranded Cost Charge	(0.080)
Storm Recovery Adjustment Factor	0.000

No further installation or relocation of Incandescent and Mercury Vapor lights will be made after the effective date of this rate.

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Title: President

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NHPUC NO. 21 - ELECTRICITY DELIVERY  
LIBERTY UTILITIES

Second Revised Page 121  
Superseding First Revised Page 121  
Rate LED-2

### Additional Requirements

Fixtures must be provided by the Customer for installation on the Company's facilities. Fixtures shall be accepted by the Company in advance of installation and must be compatible with existing line voltage and brackets, and must require no special tools or training to install and maintain. Customers who are replacing existing fixtures with LED fixtures are responsible for the cost of removal and installation. Customers may choose to have this work completed by the Company or may opt to hire and pay a private line contractor to perform the work. Any private contractor shall have all the requisite training, certifications and insurance to safely perform the required installations, and shall be licensed by the State and accepted by the Company. Prior to commencement of work, the municipality must provide written certification of the qualifications to the Company. Contractors shall coordinate the installation work with the Company and submit a work plan subject to approval by the Company, including provisions for either returning removed fixtures to the Company or otherwise disposing of them as approved by the Company. The Customer shall bear all expenses related to the use of such labor, including any expenses arising from damage to the Company's electrical system caused by the contractor's actions.

### Monthly Rates:

The energy charges for each luminaire will be determined by multiplying the energy charges per kilowatt-hour by the average monthly kilowatt-hours. The Customer is responsible for providing the list of fixtures and wattages to allow the Company to calculate the kWh to be billed. The kWh will be calculated based on the 2020 Farmer's Almanac hours of daylight.

### Energy Charges Per Kilowatt-Hour (cents per kilowatt-hour)

Distribution Charge per kWh	4.003
Reliability Enhancement/Vegetation Management	0.064
Total Distribution	4.067
Transmission Charge	2.179
Stranded Cost Charge	(0.080)
Storm Recovery Adjustment Factor	0.000

For the alternative schedule, the monthly kWh shall be determined as set forth under Use of Advanced Controls.

### Failure of Lights to Burn

Should any light fail to burn for the full period provided above, a deduction will be made from the calculated monthly kWh of such light, upon presentation of a claim from the Customer. The provisions of this paragraph do not apply when failure to burn is due to an act of God, or an act or order of any Public Authority or accidental or malicious breakage, provided, however, the necessary repairs are made with reasonable dispatch upon notification by the Customer.

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NHPUC NO. 21 - ELECTRICITY DELIVERY  
LIBERTY UTILITIES

Fifth Revised Page 123  
Superseding Fourth Revised Page 123  
Rate EV

**Rate EV Plug In Electric Vehicle D-12**

Availability

Retail Delivery Service under this rate is available for uses of a customer taking service under Rate D as a separately metered service. By choosing to participate in this Plug In Electric Vehicle rate, the Customer agrees to pay the following charges for a minimum of two years. The charging station shall be connected by means of an approved circuit to a separate electric vehicle charging meter. The rates for energy (kWh) based charges are seasonal with a winter period from November 1 to April 30 and a summer period from May 1 to October 31.

Character of Service

Service supplied under this rate will be single phase, 60 cycle, alternating current, normally three-wire service at a nominal voltage of 120/240 volts or three-wire 120/208 volts, whichever is available at the location.

Rates per Month

The rate per month will be the sum of the applicable Customer and Energy Charges subject to the adjustments in this tariff:

Rates for Retail Delivery Service Effective May 1, 2021 through October 31, 2021

Customer Charge	\$11.35 per month
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Energy Charges Per Kilowatt-Hour (cents per kilowatt-hour)

Distribution Charge Off Peak	3.625
Distribution Charge Mid Peak	5.334
Distribution Charge Critical Peak	9.667
Reliability Enhancement/Vegetation Management	0.064

Total Distribution Charge Off Peak	3.689
Total Distribution Charge Mid Peak	5.398
Total Distribution Charge Critical Peak	9.731

Transmission Charge Off Peak	0.213
Transmission Charge Mid Peak	1.958
Transmission Charge Critical Peak	12.442

Energy Service Charge Off Peak	7.411
Energy Service Charge Mid Peak	8.871
Energy Service Charge Critical Peak	9.208

Stranded Cost Adjustment Factor	(0.080)
Storm Recovery Adjustment Factor	0.000

Off peak hours will be from 12AM to 8AM and 8PM to 12AM daily.

Mid peak hours will be from 8AM to 3PM daily Monday through Friday, except holidays.

Mid peak hours will be from 8AM to 8PM Saturday, Sunday and holidays.

Critical peak hours will be from 3PM to 8PM daily Monday through Friday, except holidays.

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	Susan L. Fleck
Effective: May 1, 2021	Title: <u>President</u>

NHPUC NO. 21 – ELECTRICITY DELIVERY  
LIBERTY UTILITIES

Fifth Revised Page 125  
Superseding Fourth Revised Page 125  
Rate D-11

Control Credits

The Company or Tesla will take control of and dispatch the Powerwall 2 battery equipment during predicted peak events. Customers who lease the Powerwall 2 battery equipment from the Company will be compensated in accordance with the Alternative Net Metering Tariff adopted by the Commission in Order No. 26,029 dated June 23, 2017, as described in Section 51 of this tariff, when the Company dispatches the Powerwall 2 battery equipment for predicted peak events.

Rates per Month

The rate per month will be the sum of the applicable Customer and Energy Charges subject to the adjustments in this tariff:

Rates for Retail Delivery Service Effective May 1, 2021, through October 31, 2021

Customer Charge	\$14.74 per month
-----------------	-------------------

Energy Charges Per Kilowatt-Hour (cents per kilowatt-hour)

Distribution Charge Off Peak	3.625
Distribution Charge Mid Peak	5.334
Distribution Charge Critical Peak	9.667
Reliability Enhancement/Vegetation Management	0.064
<hr/>	
Total Distribution Charge Off Peak	3.689
Total Distribution Charge Mid Peak	5.398
Total Distribution Charge Critical Peak	9.731
Transmission Charge Off Peak	0.213
Transmission Charge Mid Peak	1.958
Transmission Charge Critical Peak	12.442
Energy Service Charge Off Peak	7.411
Energy Service Charge Mid Peak	8.871
Energy Service Charge Critical Peak	9.208
Stranded Cost Adjustment Factor	(0.080)
Storm Recovery Adjustment Factor	0.000

Off peak hours will be from 12AM to 8AM and 8PM to 12AM daily.

Mid peak hours will be from 8AM to 3PM daily Monday through Friday, except holidays.

Mid peak hours will be from 8AM to 8PM Saturday, Sunday and holidays.

Critical peak hours will be from 3PM to 8PM daily Monday through Friday, except holidays.

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Effective: May 1, 2021

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Title: President

NHPUC No. 21 - ELECTRICITY  
LIBERTY UTILITIES

Fourth Revised Page 126  
Superseding Third Revised Page 126  
Summary of Rates

RATES EFFECTIVE MAY 1, 2021  
FOR USAGE ON AND AFTER MAY 1, 2021

Rate	Blocks	Distribution Charge	REP/VMP	Net Distribution Charge	Transmission Charge	Stranded Cost Charge	Storm Recovery Adjustment Factor	System Benefits Charge	Electricity Consumption Tax	Total Delivery Service	Energy Service	Total Rate
D	Customer Charge	\$ 14 74		<b>14.74</b>						<b>14.74</b>		\$ 14.74
	All kWh	\$ 0 05741	0 00064	<b>0.05805</b>	0 03703	(0 00080)	-	0 00678	-	<b>0.10106</b>	0 06426	\$ 0.16532
Off Peak Water Heating Use 16 Hour Control <sup>1</sup>	All kWh	\$ 0 04957	0 00064	<b>0.05021</b>	0 03703	(0 00080)	-	0 00678	-	<b>0.09322</b>	0 06426	\$ 0.15748
Off Peak Water Heating Use 6 Hour Control <sup>1</sup>	All kWh	\$ 0 05049	0 00064	<b>0.05113</b>	0 03703	(0 00080)	-	0 00678	-	<b>0.09414</b>	0 06426	\$ 0.15840
Farm <sup>1</sup>	All kWh	\$ 0 05419	0 00064	<b>0.05483</b>	0 03703	(0 00080)	-	0 00678	-	<b>0.09784</b>	0 06426	\$ 0.16210
D-10	Customer Charge	\$ 14 74		<b>14.74</b>						<b>14.74</b>		\$ 14.74
	On Peak kWh	\$ 0 12215	0 00064	<b>0.12279</b>	0 02848	(0 00080)	-	0 00678	-	<b>0.15725</b>	0 06426	\$ 0.22151
	Off Peak kWh	\$ 0 00165	0 00064	<b>0.00229</b>	0 02848	(0 00080)	-	0 00678	-	<b>0.03675</b>	0 06426	\$ 0.10101
	Customer Charge	\$ 428 73		<b>428.73</b>						<b>428.73</b>		\$ 428.73
	Demand Charge	\$ 9 10		<b>9.10</b>						<b>9.10</b>		\$ 9.10
	On Peak kWh	\$ 0 00582	0 00064	<b>0.00646</b>	0 02957	(0 00080)	-	0 00678	-	<b>0.04201</b>		
									Effective 2/1/21, usage on or after		0 08245	\$ 0.12446
									Effective 3/1/21, usage on or after		0 07249	\$ 0.11450
									Effective 4/1/21, usage on or after		0 06449	\$ 0.10650
									Effective 5/1/21, usage on or after		0 05979	\$ 0.10180
									Effective 6/1/21, usage on or after		0 05555	\$ 0.09756
									Effective 7/1/21, usage on or after		0 05906	\$ 0.10107
G-1	Off Peak kWh	\$ 0 00172	0 00064	<b>0.00236</b>	0 02957	(0 00080)	-	0 00678	-	<b>0.03791</b>		
									Effective 2/1/21, usage on or after		0 08245	\$ 0.12036
									Effective 3/1/21, usage on or after		0 07249	\$ 0.11040
									Effective 4/1/21, usage on or after		0 06449	\$ 0.10240
									Effective 5/1/21, usage on or after		0 05979	\$ 0.09770
									Effective 6/1/21, usage on or after		0 05555	\$ 0.09346
									Effective 7/1/21, usage on or after		0 05906	\$ 0.09697
	Customer Charge	\$ 71 46		<b>71.46</b>						<b>71.46</b>		\$ 71.46
	Demand Charge	\$ 9 15		<b>9.15</b>						<b>9.15</b>		\$ 9.15
	All kWh	\$ 0 00231	0 00064	<b>0.00295</b>	0 03418	(0 00080)	-	0 00678	-	<b>0.04311</b>		
									Effective 2/1/21, usage on or after		0 08245	\$ 0.12556
									Effective 3/1/21, usage on or after		0 07249	\$ 0.11560
									Effective 4/1/21, usage on or after		0 06449	\$ 0.10760
									Effective 5/1/21, usage on or after		0 05979	\$ 0.10290
									Effective 6/1/21, usage on or after		0 05555	\$ 0.09866
									Effective 7/1/21, usage on or after		0 05906	\$ 0.10217
G-3	Customer Charge	\$ 16 43		<b>16.43</b>						<b>16.43</b>		\$ 16.43
	All kWh	\$ 0 05205	0 00064	<b>0.05269</b>	0 03104	(0 00080)	-	0 00678	-	<b>0.08971</b>	0 06426	\$ 0.15397
T	Customer Charge	\$ 14 74		<b>14.74</b>						<b>14.74</b>		\$ 14.74
	All kWh	\$ 0 04657	0 00064	<b>0.04721</b>	0 02795	(0 00080)	-	0 00678	-	<b>0.08114</b>	0 06426	\$ 0.14540
V	Minimum Charge	\$ 16 43		<b>16.43</b>						<b>16.43</b>		\$ 16.43
	All kWh	\$ 0 05354	0 00064	<b>0.05418</b>	0 02456	(0 00080)	-	0 00678	-	<b>0.08472</b>	0 06426	\$ 0.14898

<sup>1</sup> Rate is a subset of Domestic Rate D

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Susan L. Fleck  
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NHPUC No 21 - ELECTRICITY  
LIBERTY UTILITIES

Fifth Revised Page 127  
Superseding Fourth Revised Page 127  
Summary of Rates

RATES EFFECTIVE MAY 1, 2021  
FOR USAGE ON AND AFTER MAY 1, 2021

Rate	Blocks	Distribution Charge	REP/VMP	Net Distribution Charge	Transmission Charge	Stranded Cost Charge	Storm Recovery Adjustment Factor	System Benefits Charge	Electricity Consumption Tax	Total Delivery Service	Energy Service	Total Rate
	Customer Charge	\$14.74		<b>\$14.74</b>								<b>\$14.74</b>
	<u>Monday through Friday</u>											
	Off Peak	\$0.03625	\$0.00064	<b>\$0.03689</b>	\$0.00213	(\$0.00080)	-	\$0.00678	-	<b>\$0.04500</b>	\$0.07411	<b>\$0.11911</b>
	Mid Peak	\$0.05334	\$0.00064	<b>\$0.05398</b>	\$0.01958	(\$0.00080)	-	\$0.00678	-	<b>\$0.07954</b>	\$0.08871	<b>\$0.16825</b>
D-11	Critical Peak	\$0.09667	\$0.00064	<b>\$0.09731</b>	\$0.12442	(\$0.00080)	-	\$0.00678	-	<b>\$0.22771</b>	\$0.09208	<b>\$0.31979</b>
	<u>Saturday through Sunday and Holidays</u>											
	Off Peak	\$0.03625	\$0.00064	<b>\$0.03689</b>	\$0.00213	(\$0.00080)	-	\$0.00678	-	<b>\$0.04500</b>	\$0.07411	<b>\$0.11911</b>
	Mid Peak	\$0.05334	\$0.00064	<b>\$0.05398</b>	\$0.01958	(\$0.00080)	-	\$0.00678	-	<b>\$0.07954</b>	\$0.08871	<b>\$0.16825</b>
	Customer Charge	\$11.35		<b>\$11.35</b>								<b>\$11.35</b>
	<u>Monday through Friday</u>											
	Off Peak	\$0.03625	\$0.00064	<b>\$0.03689</b>	\$0.00213	(\$0.00080)	-	\$0.00678	-	<b>\$0.04500</b>	\$0.07411	<b>\$0.11911</b>
	Mid Peak	\$0.05334	\$0.00064	<b>\$0.05398</b>	\$0.01958	(\$0.00080)	-	\$0.00678	-	<b>\$0.07954</b>	\$0.08871	<b>\$0.16825</b>
Rate EV	Critical Peak	\$0.09667	\$0.00064	<b>\$0.09731</b>	\$0.12442	(\$0.00080)	-	\$0.00678	-	<b>\$0.22771</b>	\$0.09208	<b>\$0.31979</b>
	<u>Saturday through Sunday and Holidays</u>											
	Off Peak	\$0.03625	\$0.00064	<b>\$0.03689</b>	\$0.00213	(\$0.00080)	-	\$0.00678	-	<b>\$0.04500</b>	\$0.07411	<b>\$0.11911</b>
	Mid Peak	\$0.05334	\$0.00064	<b>\$0.05398</b>	\$0.01958	(\$0.00080)	-	\$0.00678	-	<b>\$0.07954</b>	\$0.08871	<b>\$0.16825</b>
	<u>Luminaire Charge</u>											
	HPS 4,000	\$8.42		<b>\$8.42</b>								<b>\$8.42</b>
	HPS 9,600	\$9.73		<b>\$9.73</b>								<b>\$9.73</b>
	HPS 27,500	\$16.14		<b>\$16.14</b>								<b>\$16.14</b>
	HPS 50,000	\$19.16		<b>\$19.16</b>								<b>\$19.16</b>
	HPS 9,600 (Post Top)	\$11.41		<b>\$11.41</b>								<b>\$11.41</b>
	HPS 27,500 Flood	\$16.31		<b>\$16.31</b>								<b>\$16.31</b>
M	HPS 50,000 Flood	\$21.78		<b>\$21.78</b>								<b>\$21.78</b>
	Incandescent 1,000	\$10.79		<b>\$10.79</b>								<b>\$10.79</b>
	Mercury Vapor 4,000	\$7.47		<b>\$7.47</b>								<b>\$7.47</b>
	Mercury Vapor 8,000	\$8.39		<b>\$8.39</b>								<b>\$8.39</b>
	Mercury Vapor 22,000	\$14.99		<b>\$14.99</b>								<b>\$14.99</b>
	Mercury Vapor 63,000	\$25.32		<b>\$25.32</b>								<b>\$25.32</b>
	Mercury Vapor 22,000 Flood	\$17.15		<b>\$17.15</b>								<b>\$17.15</b>
	Mercury Vapor 63,000 Flood	\$33.21		<b>\$33.21</b>								<b>\$33.21</b>
	<u>Luminaire Charge</u>											
	30 Watt Pole Top	\$5.46		<b>\$5.46</b>								<b>\$5.46</b>
	50 Watt Pole Top	\$5.69		<b>\$5.69</b>								<b>\$5.69</b>
	130 Watt Pole Top	\$8.79		<b>\$8.79</b>								<b>\$8.79</b>
	190 Watt Pole Top	\$16.82		<b>\$16.82</b>								<b>\$16.82</b>
LED-1	30 Watt URD	\$12.72		<b>\$12.72</b>								<b>\$12.72</b>
	90 Watt Flood	\$8.65		<b>\$8.65</b>								<b>\$8.65</b>
	130 Watt Flood	\$9.94		<b>\$9.94</b>								<b>\$9.94</b>
	30 Watt Caretaker	\$4.90		<b>\$4.90</b>								<b>\$4.90</b>
	<u>Luminaire Charge</u>											
	Pole -Wood	\$9.51		<b>\$9.51</b>								<b>\$9.51</b>
	Fiberglass - Direct Embedded	\$9.92		<b>\$9.92</b>								<b>\$9.92</b>
	Fiberglass w/Foundation <25 ft	\$16.73		<b>\$16.73</b>								<b>\$16.73</b>
	Fiberglass w/Foundation >=25 ft	\$27.97		<b>\$27.97</b>								<b>\$27.97</b>
	Metal Poles - Direct Embedded	\$19.94		<b>\$19.94</b>								<b>\$19.94</b>
	Metal Poles with Foundation	\$24.05		<b>\$24.05</b>								<b>\$24.05</b>
M & LED-1	All kWh	\$0.04003	\$0.00064	<b>\$0.04067</b>	\$0.02179	(\$0.00080)	\$0.00000	\$0.00678	\$0.00000	<b>\$0.06844</b>	\$0.06426	<b>\$0.13270</b>
LED-2	All kWh	\$0.04003	\$0.00064	<b>\$0.04067</b>	\$0.02179	(\$0.00080)	\$0.00000	\$0.00678	\$0.00000	<b>\$0.06844</b>	\$0.06426	<b>\$0.13270</b>

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NHPUC NO. 21 - ELECTRICITY DELIVERY  
LIBERTY UTILITIES

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Rate D

**Rate D**

Availability

Retail Delivery Service under this rate is available for all domestic purposes in an individual private dwelling or an individual apartment and for farm purposes. If electricity is delivered through more than one meter, the charge for electricity delivered through each meter shall be computed separately under this rate.

Character of Service

Service supplied under this rate will be single phase, 60 cycle, alternating current, normally three-wire service at a nominal voltage of 120/240 volts or three-wire 120/208 volts, whichever is available at the location.

Rate Per Month

The rate per month will be the sum of the applicable Customer and Energy Charges subject to the adjustments in this tariff:

Rates for Retail Delivery Service

Customer Charge \$14.74 per month

Energy Charges Per Kilowatt-Hour (cents per kilowatt-hour)

Distribution Charge All kWh	5.741
Reliability Enhancement/Vegetation Management	0.064
Total Distribution All kWh	5.805
Transmission Charge	<del>3.703</del> 2.660
Stranded Cost Charge	<del>(0.080)</del> (0.072)
Storm Recovery Adjustment Factor	0.000

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NHPUC NO. 21 - ELECTRICITY DELIVERY  
LIBERTY UTILITIES

Superseding ~~Original~~ First Revised Page 91  
Rate D

Off-Peak Use: 16 Hour Control

For all electricity separately metered and delivered between the hours of 11:00 p.m. on each day and 7:00 a.m. on the next day, the price of such electricity shall be:

Energy Charges Per Kilowatt-Hour (cents per kilowatt-hour)

Distribution Charge Off Peak Use	4.957
Reliability Enhancement/Vegetation Management	0.064
Total Distribution	5.021
Transmission Charge	<del>3.7032-660</del>
Stranded Cost Charge	<del>(0.080)(0.072)</del>
Storm Recovery Adjustment Factor	0.000

If a Customer has installed an electric water heater of a type approved by the Company, electricity is delivered to such water heater is supplied only under this rate.

Off-Peak Use: 6 Hour Control

For all electricity separately metered and subject to the Company's right to limit the operation of the bottom water heating element up to 6 hours a day, the price of such electricity shall be:

Energy Charges Per Kilowatt-Hour (cents per kilowatt-hour)

Distribution Charge Off Peak Use	5.049
Reliability Enhancement/Vegetation Management	0.064
Total Distribution	5.113
Transmission Charge	<del>3.7032-660</del>
Stranded Cost Charge	<del>(0.080)(0.072)</del>
Storm Recovery Adjustment Factor	0.000

If a Customer has installed an electric water heater of a type approved by the Company, and electricity delivered to such water heater is supplied only under this rate

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NHPUC NO. 21 - ELECTRICITY DELIVERY  
LIBERTY UTILITIES

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Rate D

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NHPUC NO. 21 - ELECTRICITY DELIVERY  
LIBERTY UTILITIES

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Rate D

Farm Use

The availability of the Farm Use Section is limited to those locations which were served under the Farm Use Section of Domestic Rate D, N.H.P.U.C. No. 8 - Electricity immediately prior to the effective date of this rate. For such farm customers, where all electricity is supplied by the Company, the RATE PER MONTH is modified as follows:

Energy Charges Per Kilowatt-Hour (cents per kilowatt-hour)

Distribution Charge*	5.419
Reliability Enhancement/Vegetation Management	0.064
Total Distribution	5.483
Transmission Service Cost Adjustment	<del>3.7032</del>
	<del>660</del>
Stranded Cost Adjustment Factor	<del>(0.080)</del>
	<del>(0.072)</del>
Storm Recovery Adjustment Factor	0.000

\*All Regular Use kilowatt-hours in excess of the greater of the following:

- i. 500 kilowatt-hours
- ii. 100 kilowatt-hours per kilovolt-ampere of transformer capacity needed to serve the Customer

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**Rate D-10 Optional Peak Load Rate**Availability

Retail Delivery Service under this rate is available for all domestic purposes in an individual private dwelling or an individual apartment and for farm purposes to selected customers presently served under Rate D.

If electricity is delivered through more than one meter, the charge for electricity delivered through each meter shall be computed separately under this rate. The availability of this rate will be subject to the Company's ability to obtain the necessary meters and to render such service.

Character of Service

Service supplied under this rate will be single phase, 60 cycle, alternating current, normally three-wire service at a nominal voltage of 120/240 volts or three-wire 120/208 volts, whichever is available at the location.

Rate Per Month

The rate per month will be the sum of the applicable Customer and Energy Charges subject to the adjustments in this tariff:

Rates for Retail Delivery Service

Customer Charge \$14.74 per month

Energy Charges Per Kilowatt-Hour (cents per kilowatt-hour)

Distribution Charge On Peak	12.215
Distribution Charge Off Peak	0.165
Reliability Enhancement/Vegetation Management	0.064
Total Distribution Charge On Peak	12.279
Total Distribution Charge Off Peak	0.229

Transmission Charge	<del>2.848</del> 2.269
Stranded Cost Charge	(0.08072)
Storm Recovery Adjustment Factor	0.000

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LIBERTY UTILITIES

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Rate D-10

Peak hours will be from 8:00 a.m. to 9:00 p.m. daily on Monday through Friday excluding holidays.

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NHPUC NO. 21 - ELECTRICITY DELIVERY  
LIBERTY UTILITIES

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Rate G-1

Rates for Retail Delivery Service

Customer Charge \$428.73 per month  
Energy Charges Per Kilowatt-Hour (cents per kilowatt-hour)

Distribution Charge On Peak	0.582
Distribution Charge Off Peak	0.172
Reliability Enhancement/Vegetation Management	0.064
Total Distribution Charge On Peak	0.646
Total Distribution Charge Off Peak	0.236
Transmission Charge	<del>2.9572</del> <del>.065</del>
Stranded Cost Charge	(0.080 <del>72</del> )
Storm Recovery Adjustment Factor	0.000

Demand Charges Per Kilowatt

Distribution \$9.10

Distribution Energy Charges Peak Periods

Peak hours will be from 8:00 a.m. to 9:00 p.m. daily on Monday through Friday excluding holidays.

Off-Peak hours will be from 9:00 p.m. to 8:00 a.m. daily Monday through Friday, and all day on Saturdays, Sundays, and holidays.

Demand

The Demand for each month under ordinary load conditions shall be the greatest of the following:

1. The greatest fifteen-minute peak during the peak hours which occurs during such month as measured in kilowatts,
2. 90% of the greatest fifteen-minute peak during the peak hours occurring during such month as measured in kilovolt-amperes where the Customer's kilowatt Demand exceeds 75 kilowatts, or
3. 80% of the greatest Demand as so determined above during the preceding eleven months.

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NHPUC NO. 21 - ELECTRICITY DELIVERY  
LIBERTY UTILITIES

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Rate G-1

Any Demands established during the eleven (11) months prior to the application of this rate shall be considered as having been established under this rate.

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NHPUC NO. 21 - ELECTRICITY DELIVERY  
LIBERTY UTILITIES

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Rate G-2

Transmission Charge	<u>3.4182</u>
	<u>.553</u>
Stranded Cost Charge	(0.080
	<u>72</u> )
Storm Recovery Adjustment Factor	0.000

Demand Charges Per Kilowatt

Distribution \$9.15

Demand

The Demand for each month under ordinary load conditions shall be the greatest of the following:

1. The greatest fifteen-minute peak during the peak hours which occurs during such month as measured in kilowatts,
2. 90% of the greatest fifteen-minute peak occurring during such month as measured in kilovolt-amperes where the Customer's kilowatt Demand exceeds 75 kilowatts, or
3. 80% of the greatest Demand as so determined above during the preceding eleven months.

Any Demands established during the eleven months prior to the application of this rate shall be considered as having been established under this rate.

Optional Determination of Demand

However, a Customer who has been served hereunder for one year or more may upon written request have the Demand for each month, beginning with the next month after such request and running for a period of not less than two consecutive months, be based upon the greatest of items a) or b) above. In such case, the Demand Charge and the Energy Charge will be increased by 20% during such period.

High Voltage Metering Adjustment

The Company reserves the right to determine the metering installation. Where service is metered at the Company's supply line voltage, in no case less than 2400 volts, thereby saving the Company transformer losses, a discount of 1% will be allowed from the amount determined under the preceding provisions.

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NHPUC NO. 21 - ELECTRICITY DELIVERY  
LIBERTY UTILITIES

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Rate G-2

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**General Service Rate G-3**Availability

Retail Delivery Service under this rate is available for all purposes except resale. The sale of electric vehicle charging services to a third party from an electric vehicle charging station shall not be considered resale of electricity. A Customer will take delivery service on this rate if the Company estimates that its average use will be less than 20 kW of demand. If electricity is delivered through more than one meter, except at the Company's option, the charge for electricity delivered through each meter shall be computed separately under this rate.

Character of Service

Service supplied under this rate will be 60 cycle, alternating current either:

- a) Single-phase normally three-wire at a nominal voltage of 120/240 volts.
- b) Three-phase secondary normally at a nominal voltage of 120/208, or 277/480 volts.
- c) Three-phase primary normally at a nominal voltage of 2400, 4160, 4800, 7200, 13,200 or 13,800 volts.

All voltages are not available in every area.

Rate Per Month

The rate per month will be the sum of the Customer and Energy Charges subject to the adjustments in this tariff:

Rates for Retail Delivery Service

Customer Charge \$16.43 per month

Energy Charges Per Kilowatt-Hour (cents per kilowatt-hour)

Distribution Charge	5.205
<del>2</del> Reliability Enhancement/Vegetation Management	0.064
Total Distribution Charge	5.269
Transmission Charge	3.1042
	<del>.550</del>

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NHPUC NO. 21 - ELECTRICITY DELIVERY  
LIBERTY UTILITIES

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Rate G-3

Stranded Cost Charge	(0.080 <del>72</del> )
Storm Recovery Adjustment Factor	0.000

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	Susan L. Fleck
Effective: July 1, 2020	Title: President

~~Authorized by NHPUC Order No. 26,376 in Docket No. DE 19-064, dated June 30, 2020 and NHPUC Order No. 26,377 in Docket No. DE 19-064, dated June 30, 2020~~

NHPUC NO. 21 - ELECTRICITY DELIVERY  
LIBERTY UTILITIES

~~First-Second~~ Revised Page 104  
Superseding-~~Original- First Revised~~ Page 104  
Rate T

Character of Service

Service supplied under this rate will be single phase, 60 cycle, alternating current, normally three-wire service at a nominal voltage of 120/240 volts or three-wire 120/208 volts, whichever is available at the location.

Rate Per Month

The rate per month will be the sum of the applicable Customer and Energy Charges subject to the adjustments in this tariff.

Rates for Retail Delivery Service

Customer Charge \$14.74 per month

Energy Charges Per Kilowatt-Hour (cents per kilowatt-hour)

Distribution Charge	4.657
Reliability Enhancement/Vegetation Management	0.064
Total Distribution Charge	4.721
Transmission Charge	<del>2.7952</del>
	<del>.620</del>
Stranded Cost Charge	<del>(0.080</del>
	<del>73)</del>
Storm Recovery Adjustment Factor	0.000

Terms of Agreement

A Customer served under this rate must provide the Company with one-year prior written notice before installing additional generation for its own use. This notice provision shall be waived with respect to the installation of on-site non-emergency generation from renewable energy resources. Renewable energy resources shall mean fuel cells (including natural gas powered fuel cells), and emerging power generation technologies that produce electricity from wind energy, solar energy, small-scale hydro power, ocean power, landfill gas, sustainably managed biomass, and future clean renewable technologies.

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Susan L. Fleck  
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NHPUC NO. 21 - ELECTRICITY DELIVERY  
LIBERTY UTILITIES

First-Second Revised Page 107  
Superseding Original-First Revised Page 107  
Rate V

Rates for Retail Delivery Service

Customer Charge \$16.43 per month

Energy Charges Per Kilowatt-Hour (cents per kilowatt-hour)

Distribution Charge 5.354

Reliability Enhancement/Vegetation Management 0.064

Total Distribution Charge 5.418

Transmission Charge ~~2.4562~~

~~.501~~

Stranded Cost Charge (0.080

~~72~~)

Storm Recovery Adjustment Factor 0.000

Terms of Agreement

A Customer served under this rate must provide the Company with one-year prior written notice before installing additional on-site, non-emergency generation for its own use. This notice provision shall be waived with respect to the installation of on-site non-emergency generation from renewable energy resources. Renewable energy resources shall mean fuel cells (including natural gas powered fuel cells), and emerging power generation technologies that produce electricity from wind energy, solar energy, small-scale hydro power, ocean power, landfill gas, sustainably managed biomass, and future clean renewable technologies.

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**Outdoor Lighting Service Rate M**Availability*Public Lighting*

Available for Street or Highways and areas within the public domain for customers designated as governmental entities, inclusive of the state, municipalities, or other public authorities. Installations on limited access highways, tunnels, bridges and the access and egress ramps thereto are subject to the Special Rate Conditions of this tariff.

*Private Lighting*

Available to private customers for outdoor lighting of areas on private property where necessary fixtures can be supported on existing poles and where such service can be supplied from existing secondary distribution facilities.

In special circumstances outlined in the pole and accessory section below, the Company will install a wooden pole.

*Lighting Services*

Service under this rate is for full-night service street lighting whereby the luminaire operates for the entire night time period pursuant to the Hours of Operation provision below. In addition, customers may, at their option, take advantage of part-night service in which the luminaire operates for a portion of the night pursuant to the Hours of Operation provision below. Customers may select the part-night service option at the time of lighting installation or at any time during service. Any request to select the part-time night service option must be made in writing.

Energy Charges Per Kilowatt-Hour (cents per kilowatt-hour)

Distribution Charge	4.003
Reliability Enhancement/Vegetation Management	0.064
Total Distribution	4.067
Transmission Charge	2.1791-520
Stranded Cost Charge	(0.08072)
Storm Recovery Adjustment Factor	0.000

No further installation or relocation of Incandescent and Mercury Vapor lights will be made after the effective date of this rate.

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NHPUC NO. 21 - ELECTRICITY DELIVERY  
LIBERTY UTILITIES

~~First~~ Second Revised Page 108  
Superseding ~~Original~~ First Revised Page 108  
Rate M

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Issued: July 1, 2020 Issued by: /s/ Susan L. Fleck  
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**Outdoor Lighting Service Rate LED-1**Availability*Public Lighting*

Available for Street or Highways and areas within the public domain for customers designated as governmental entities, inclusive of the state, municipalities, or other public authorities. Installations on limited access highways, tunnels, bridges and the access and egress ramps thereto are subject to the Special Rate Conditions of this tariff.

*Private Lighting*

Available to private customers for outdoor lighting of areas on private property where necessary fixtures can be supported on existing poles and where such service can be supplied from existing secondary distribution facilities.

In special circumstances outlined in the pole and accessory section below, the Company will install a wooden pole.

*Lighting Services*

Service under this rate is for full-night service street lighting whereby the luminaire operates for the entire night time period pursuant to the Hours of Operation provision below. In addition, customers may, at their option, take advantage of part-night service in which the luminaire operates for a portion of the night pursuant to the Hours of Operation provision below. Customers may select the part-night service option at the time of lighting installation or at any time during service. Any request to select the part-time night service option must be made in writing.

Energy Charges Per Kilowatt-Hour (cents per kilowatt-hour)

Distribution Charge	4.003
Reliability Enhancement/Vegetation Management	0.064
Total Distribution	4.067
Transmission Charge	<del>2.179</del> 1.520
Stranded Cost Charge	(0.08072)
Storm Recovery Adjustment Factor	0.000

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NHPUC NO. 21 - ELECTRICITY DELIVERY  
LIBERTY UTILITIES

~~First~~ Second Revised Page 114  
Superseding ~~Original~~ First Revised Page 114  
Rate LED-1

No further installation or relocation of Incandescent and Mercury Vapor lights will be made after the effective date of this rate.

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NHPUC NO. 21 - ELECTRICITY DELIVERY  
LIBERTY UTILITIES

~~First~~<sup>Second</sup> Revised Page 121  
Superseding ~~Original~~<sup>First Revised</sup> Page 121  
Rate LED-2

### Additional Requirements

Fixtures must be provided by the Customer for installation on the Company's facilities. Fixtures shall be accepted by the Company in advance of installation and must be compatible with existing line voltage and brackets, and must require no special tools or training to install and maintain. Customers who are replacing existing fixtures with LED fixtures are responsible for the cost of removal and installation. Customers may choose to have this work completed by the Company or may opt to hire and pay a private line contractor to perform the work. Any private contractor shall have all the requisite training, certifications and insurance to safely perform the required installations, and shall be licensed by the State and accepted by the Company. Prior to commencement of work, the municipality must provide written certification of the qualifications to the Company. Contractors shall coordinate the installation work with the Company and submit a work plan subject to approval by the Company, including provisions for either returning removed fixtures to the Company or otherwise disposing of them as approved by the Company. The Customer shall bear all expenses related to the use of such labor, including any expenses arising from damage to the Company's electrical system caused by the contractor's actions.

### Monthly Rates:

The energy charges for each luminaire will be determined by multiplying the energy charges per kilowatt-hour by the average monthly kilowatt-hours. The Customer is responsible for providing the list of fixtures and wattages to allow the Company to calculate the kWh to be billed. The kWh will be calculated based on the 2020 Farmer's Almanac hours of daylight.

### Energy Charges Per Kilowatt-Hour (cents per kilowatt-hour)

Distribution Charge per kWh	4.003
Reliability Enhancement/Vegetation Management	0.064
Total Distribution	4.067
Transmission Charge	<del>2.179</del> <sup>1.520</sup>
Stranded Cost Charge	(0.0 <del>8072</del> )
Storm Recovery Adjustment Factor	0.000

For the alternative schedule, the monthly kWh shall be determined as set forth under Use of Advanced Controls.

### Failure of Lights to Burn

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Susan L. Fleck  
 Effective: May 1, 2021 Title: President

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Susan L. Fleck  
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NHPUC NO. 21 - ELECTRICITY DELIVERY  
LIBERTY UTILITIES

~~First~~Second Revised Page 121  
Superseding ~~Original~~First Revised Page 121  
Rate LED-2

Should any light fail to burn for the full period provided above, a deduction will be made from the calculated monthly kWh of such light, upon presentation of a claim from the Customer. The provisions of this paragraph do not apply when failure to burn is due to an act of God, or an act or order of any Public Authority or accidental or malicious breakage, provided, however, the necessary repairs are made with reasonable dispatch upon notification by the Customer.

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Susan L. Fleck

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NHPUC NO. 21 - ELECTRICITY DELIVERY  
LIBERTY UTILITIES

~~Fourth~~<sup>Fifth</sup> Revised Page 123  
Superseding ~~Third~~<sup>Fourth</sup> Revised Page 123  
Rate EV

~~1.569~~

Energy Service Charge Off Peak	7.411
Energy Service Charge Mid Peak	8.871
Energy Service Charge Critical Peak	9.208

Stranded Cost Adjustment Factor	(0.08072)
Storm Recovery Adjustment Factor	0.000

Off peak hours will be from 12AM to 8AM and 8PM to 12AM daily.

Mid peak hours will be from 8AM to 3PM daily Monday through Friday, except holidays.

Mid peak hours will be from 8AM to 8PM Saturday, Sunday and holidays.

Critical peak hours will be from 3PM to 8PM daily Monday through Friday, except holidays.

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Susan L. Fleck

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/s/ Susan L. Fleck

Susan L. Fleck

Effective: February 1,

2021 Title:

President

092

NHPUC NO. 21 – ELECTRICITY DELIVERY  
LIBERTY UTILITIES

~~Fourth-Fifth~~ Revised Page 125  
Superseding ~~Third-Fourth~~ Revised Page 125  
Rate D-11

Control Credits

The Company or Tesla will take control of and dispatch the Powerwall 2 battery equipment during predicted peak events. Customers who lease the Powerwall 2 battery equipment from the Company will be compensated in accordance with the Alternative Net Metering Tariff adopted by the Commission in Order No. 26,029 dated June 23, 2017, as described in Section 51 of this tariff, when the Company dispatches the Powerwall 2 battery equipment for predicted peak events.

Rates per Month

The rate per month will be the sum of the applicable Customer and Energy Charges subject to the adjustments in this tariff:

Rates for Retail Delivery Service Effective May 1, 2021, through October 31, 2021

Customer Charge	\$14.74 per month
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Energy Charges Per Kilowatt-Hour (cents per kilowatt-hour)

Distribution Charge Off Peak	3.625
Distribution Charge Mid Peak	5.334
Distribution Charge Critical Peak	9.667
Reliability Enhancement/Vegetation Management	0.064
Total Distribution Charge Off Peak	3.689
Total Distribution Charge Mid Peak	5.398
Total Distribution Charge Critical Peak	9.731
Transmission Charge Off Peak	<del>0.2120</del> <u>0.213174</u>
Transmission Charge Mid Peak	<del>0.3371</del> <u>0.958801</u>
Transmission Charge Critical Peak	<del>13.6151</del> <u>12.4421, 569</u>
Energy Service Charge Off Peak	7.411
Energy Service Charge Mid Peak	8.871
Energy Service Charge Critical Peak	9.208
Stranded Cost Adjustment Factor	(0.08072)
Storm Recovery Adjustment Factor	0.000

Off peak hours will be from 12AM to 8AM and 8PM to 12AM daily.

Mid peak hours will be from 8AM to 3PM daily Monday through Friday, except holidays.

Mid peak hours will be from 8AM to 8PM Saturday, Sunday and holidays.

Critical peak hours will be from 3PM to 8PM daily Monday through Friday, except holidays.

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	Susan L. Fleck
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Issued: January 13, 2021	Issued by: /s/ Susan L. Fleck
	Susan L. Fleck
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Effective: February 1, 2021 Title: President

NHPUC No. 21 - ELECTRICITY  
LIBERTY UTILITIES

Third Revised Page 126  
Superseding Second Revised Page 126  
Summary of Rates

**RATES EFFECTIVE FEBRUARY 1, 2021  
FOR USAGE ON AND AFTER FEBRUARY 1, 2021**

Rate	Blocks	Distribution Charge	REP/VMP	Net Distribution Charge	Transmission Charge	Stranded Cost Charge	Storm Recovery Adjustment Factor	System Benefits Charge	Electricity Consumption Tax	Total Delivery Service	Energy Service	Total Rate
D	Customer Charge	\$ 14.74		<b>14.74</b>						<b>14.74</b>		\$ 14.74
	All kWh	\$ 0.05741	0.00064	<b>0.05805</b>	<del>0.02660</del>	<del>(0.00072)</del>	-	0.00678	-	<del>0.09071</del>	0.06426	<del>\$ 0.15497</del>
Off Peak Water Heating Use 16 Hour Control <sup>1</sup>	All kWh	\$ 0.04957	0.00064	<b>0.05021</b>	<del>0.02660</del>	<del>(0.00072)</del>	-	0.00678	-	<del>0.08287</del>	0.06426	<del>\$ 0.14713</del>
Off Peak Water Heating Use 6 Hour Control <sup>1</sup>	All kWh	\$ 0.05049	0.00064	<b>0.05113</b>	<del>0.02660</del>	<del>(0.00072)</del>	-	0.00678	-	<del>0.08379</del>	0.06426	<del>\$ 0.14805</del>
Farm <sup>1</sup>	All kWh	\$ 0.05419	0.00064	<b>0.05483</b>	<del>0.02660</del>	<del>(0.00072)</del>	-	0.00678	-	<del>0.08749</del>	0.06426	<del>\$ 0.15175</del>
D-10	Customer Charge	\$ 14.74		<b>14.74</b>						<b>14.74</b>		\$ 14.74
	On Peak kWh	\$ 0.12215	0.00064	<b>0.12279</b>	<del>0.02269</del>	<del>(0.00072)</del>	-	0.00678	-	<del>0.15154</del>	0.06426	<del>\$ 0.21580</del>
	Off Peak kWh	\$ 0.00165	0.00064	<b>0.00229</b>	<del>0.02269</del>	<del>(0.00072)</del>	-	0.00678	-	<del>0.03104</del>	0.06426	<del>\$ 0.09530</del>
	Customer Charge	\$ 428.73		<b>428.73</b>						<b>428.73</b>		\$ 428.73
	Demand Charge	\$ 9.10		<b>9.10</b>						<b>9.10</b>		\$ 9.10
	On Peak kWh	\$ 0.00582	0.00064	<b>0.00646</b>	<del>0.02065</del>	<del>(0.00072)</del>	-	0.00678	-	<del>0.03317</del>		
									Effective 2/1/21, usage on or after		0.08245	<del>\$ 0.11562</del>
									Effective 3/1/21, usage on or after		0.07249	<del>\$ 0.10566</del>
									Effective 4/1/21, usage on or after		0.06449	<del>\$ 0.09766</del>
									Effective 5/1/21, usage on or after		0.05979	<del>\$ 0.09296</del>
									Effective 6/1/21, usage on or after		0.05555	<del>\$ 0.08872</del>
									Effective 7/1/21, usage on or after		0.05906	<del>\$ 0.09223</del>
G-1	Off Peak kWh	\$ 0.00172	0.00064	<b>0.00236</b>	<del>0.02065</del>	<del>(0.00072)</del>	-	0.00678	-	<del>0.02907</del>		
									Effective 2/1/21, usage on or after		0.08245	<del>\$ 0.11152</del>
									Effective 3/1/21, usage on or after		0.07249	<del>\$ 0.10156</del>
									Effective 4/1/21, usage on or after		0.06449	<del>\$ 0.09356</del>
									Effective 5/1/21, usage on or after		0.05979	<del>\$ 0.08886</del>
									Effective 6/1/21, usage on or after		0.05555	<del>\$ 0.08462</del>
									Effective 7/1/21, usage on or after		0.05906	<del>\$ 0.08813</del>
	Customer Charge	\$ 71.46		<b>71.46</b>						<b>71.46</b>		\$ 71.46
	Demand Charge	\$ 9.15		<b>9.15</b>						<b>9.15</b>		\$ 9.15
	All kWh	\$ 0.00231	0.00064	<b>0.00295</b>	<del>0.02553</del>	<del>(0.00072)</del>	-	0.00678	-	<del>0.03454</del>		
									Effective 2/1/21, usage on or after		0.08245	<del>\$ 0.11699</del>
									Effective 3/1/21, usage on or after		0.07249	<del>\$ 0.10703</del>
									Effective 4/1/21, usage on or after		0.06449	<del>\$ 0.09903</del>
									Effective 5/1/21, usage on or after		0.05979	<del>\$ 0.09433</del>
									Effective 6/1/21, usage on or after		0.05555	<del>\$ 0.09009</del>
									Effective 7/1/21, usage on or after		0.05906	<del>\$ 0.09360</del>
G-3	Customer Charge	\$ 16.43		<b>16.43</b>						<b>16.43</b>		\$ 16.43
	All kWh	\$ 0.05205	0.00064	<b>0.05269</b>	<del>0.02550</del>	<del>(0.00072)</del>	-	0.00678	-	<del>0.08425</del>	0.06426	<del>\$ 0.14851</del>
T	Customer Charge	\$ 14.74		<b>14.74</b>						<b>14.74</b>		\$ 14.74
	All kWh	\$ 0.04657	0.00064	<b>0.04721</b>	<del>0.02620</del>	<del>(0.00073)</del>	-	0.00678	-	<del>0.07946</del>	0.06426	<del>\$ 0.14372</del>
V	Minimum Charge	\$ 16.43		<b>16.43</b>						<b>16.43</b>		\$ 16.43
	All kWh	\$ 0.05354	0.00064	<b>0.05418</b>	<del>0.02501</del>	<del>(0.00072)</del>	-	0.00678	-	<del>0.08525</del>	0.06426	<del>\$ 0.14951</del>

<sup>1</sup> Rate is a subset of Domestic Rate D

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Susan L. Fleck  
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NHPUC No 21 - ELECTRICITY  
LIBERTY UTILITIES

Fourth Revised Page 127  
Superseding Third Revised Page 127  
Summary of Rates

**RATES EFFECTIVE FEBRUARY 1, 2021  
FOR USAGE ON AND AFTER FEBRUARY 1, 2021**

Rate	Blocks	Distribution Charge	REP/VMP	Net Distribution Charge	Transmission Charge	Stranded Cost Charge	Storm Recovery Adjustment Factor	System Benefits Charge	Electricity Consumption Tax	Total Delivery Service	Energy Service	Total Rate
	Customer Charge	\$14.74		<b>\$14.74</b>								<b>\$14.74</b>
	<u>Monday through Friday</u>											
	Off Peak	\$0.03625	\$0.00064	<b>\$0.03689</b>	<del>\$0.00212</del>	<del>(\$0.00072)</del>	-	\$0.00678	-	<del>\$0.04507</del>	\$0.07411	<del>\$0.11918</del>
	Mid Peak	\$0.05334	\$0.00064	<b>\$0.05398</b>	<del>\$0.00337</del>	<del>(\$0.00072)</del>	-	\$0.00678	-	<del>\$0.06341</del>	\$0.08871	<del>\$0.15212</del>
D-11	Critical Peak	\$0.09667	\$0.00064	<b>\$0.09731</b>	<del>\$0.13615</del>	<del>(\$0.00072)</del>	-	\$0.00678	-	<del>\$0.23952</del>	\$0.09208	<del>\$0.33160</del>
	<u>Saturday through Sunday and Holidays</u>											
	Off Peak	\$0.03625	\$0.00064	<b>\$0.03689</b>	<del>\$0.00212</del>	<del>(\$0.00072)</del>	-	\$0.00678	-	<del>\$0.04507</del>	\$0.07411	<del>\$0.11918</del>
	Mid Peak	\$0.05334	\$0.00064	<b>\$0.05398</b>	<del>\$0.00337</del>	<del>(\$0.00072)</del>	-	\$0.00678	-	<del>\$0.06341</del>	\$0.08871	<del>\$0.15212</del>
	Customer Charge	\$11.35		<b>\$11.35</b>								<b>\$11.35</b>
	<u>Monday through Friday</u>											
	Off Peak	\$0.03625	\$0.00064	<b>\$0.03689</b>	<del>\$0.00212</del>	<del>(\$0.00072)</del>	-	\$0.00678	-	<del>\$0.04507</del>	\$0.07411	<del>\$0.11918</del>
	Mid Peak	\$0.05334	\$0.00064	<b>\$0.05398</b>	<del>\$0.00337</del>	<del>(\$0.00072)</del>	-	\$0.00678	-	<del>\$0.06341</del>	\$0.08871	<del>\$0.15212</del>
Rate EV	Critical Peak	\$0.09667	\$0.00064	<b>\$0.09731</b>	<del>\$0.13615</del>	<del>(\$0.00072)</del>	-	\$0.00678	-	<del>\$0.23952</del>	\$0.09208	<del>\$0.33160</del>
	<u>Saturday through Sunday and Holidays</u>											
	Off Peak	\$0.03625	\$0.00064	<b>\$0.03689</b>	<del>\$0.00212</del>	<del>(\$0.00072)</del>	-	\$0.00678	-	<del>\$0.04507</del>	\$0.07411	<del>\$0.11918</del>
	Mid Peak	\$0.05334	\$0.00064	<b>\$0.05398</b>	<del>\$0.00337</del>	<del>(\$0.00072)</del>	-	\$0.00678	-	<del>\$0.06341</del>	\$0.08871	<del>\$0.15212</del>
	<u>Luminaire Charge</u>											
	HPS 4,000	\$8.42		<b>\$8.42</b>								<b>\$8.42</b>
	HPS 9,600	\$9.73		<b>\$9.73</b>								<b>\$9.73</b>
	HPS 27,500	\$16.14		<b>\$16.14</b>								<b>\$16.14</b>
	HPS 50,000	\$19.16		<b>\$19.16</b>								<b>\$19.16</b>
	HPS 9,600 (Post Top)	\$11.41		<b>\$11.41</b>								<b>\$11.41</b>
	HPS 27,500 Flood	\$16.31		<b>\$16.31</b>								<b>\$16.31</b>
M	HPS 50,000 Flood	\$21.78		<b>\$21.78</b>								<b>\$21.78</b>
	Incandescent 1,000	\$10.79		<b>\$10.79</b>								<b>\$10.79</b>
	Mercury Vapor 4,000	\$7.47		<b>\$7.47</b>								<b>\$7.47</b>
	Mercury Vapor 8,000	\$8.39		<b>\$8.39</b>								<b>\$8.39</b>
	Mercury Vapor 22,000	\$14.99		<b>\$14.99</b>								<b>\$14.99</b>
	Mercury Vapor 63,000	\$25.32		<b>\$25.32</b>								<b>\$25.32</b>
	Mercury Vapor 22,000 Flood	\$17.15		<b>\$17.15</b>								<b>\$17.15</b>
	Mercury Vapor 63,000 Flood	\$33.21		<b>\$33.21</b>								<b>\$33.21</b>
	<u>Luminaire Charge</u>											
	30 Watt Pole Top	\$5.46		<b>\$5.46</b>								<b>\$5.46</b>
	50 Watt Pole Top	\$5.69		<b>\$5.69</b>								<b>\$5.69</b>
	130 Watt Pole Top	\$8.79		<b>\$8.79</b>								<b>\$8.79</b>
	190 Watt Pole Top	\$16.82		<b>\$16.82</b>								<b>\$16.82</b>
LED-1	30 Watt URD	\$12.72		<b>\$12.72</b>								<b>\$12.72</b>
	90 Watt Flood	\$8.65		<b>\$8.65</b>								<b>\$8.65</b>
	130 Watt Flood	\$9.94		<b>\$9.94</b>								<b>\$9.94</b>
	30 Watt Caretaker	\$4.90		<b>\$4.90</b>								<b>\$4.90</b>
	<u>Pole -Wood</u>											
	Fiberglass - Direct Embedded	\$9.92		<b>\$9.92</b>								<b>\$9.92</b>
	Fiberglass w/Foundation <25 ft	\$16.73		<b>\$16.73</b>								<b>\$16.73</b>
	Fiberglass w/Foundation >=25 ft	\$27.97		<b>\$27.97</b>								<b>\$27.97</b>
	Metal Poles - Direct Embedded	\$19.94		<b>\$19.94</b>								<b>\$19.94</b>
	Metal Poles with Foundation	\$24.05		<b>\$24.05</b>								<b>\$24.05</b>
M & LED-1	All kWh	\$0.04003	\$0.00064	<b>\$0.04067</b>	<del>\$0.01520</del>	<del>(\$0.00072)</del>	\$0.00000	\$0.00678	\$0.00000	<del>\$0.06193</del>	\$0.06426	<del>\$0.12619</del>
LED-2	All kWh	\$0.04003	\$0.00064	<b>\$0.04067</b>	<del>\$0.01520</del>	<del>(\$0.00072)</del>	\$0.00000	\$0.00678	\$0.00000	<del>\$0.06193</del>	\$0.06426	<del>\$0.12619</del>

Dated: January 13, 2021  
Effective: February 1, 2021

Issued by: /s/Susan L. Fleck  
Susan L. Fleck  
Title: President

Authorized by NHPUC Order No. 26,431 in Docket No. DE 20-053 dated December 14, 2021