

**Public Service Company of New Hampshire d/b/a Eversource Energy**  
**Docket No. DE 22-060**

**Date Request Received: August 24, 2023**  
**Data Request No. CPCNH 1-001**

**Date of Response: October 12, 2023**  
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**Request from: Community Power Coalition of New Hampshire**

**Witness: Boutin, Warren R**

**Request:**

**RE: Joint Testimony p.9, lines 7:** Referencing increasing levels of customer participation in net energy metering (NEM), please provide a table or spreadsheet for each utility for the calendar (or fiscal) years 2015 - 2022, and for the first 6 months of CY 2023 the following data:

- (a) Total number of NEM customer-generators and by size category: 0-100 kW, >100kW to 1 MW, >1 MW
- (b) Total number of NEM customer-generators by tariff, original net metering (NEM 1.0) and alternative net metering (NEM 2.0)
- (c) Number of new applications by the above 3 size categories
- (d) Number of approved new applications by the 3 size categories

**Response:**

- (a) Total number of NEM customer-generators and by size category: 0-100 kW, >100kW to 1 MW, >1 MW

<b>Eversource 0-100 kW</b>		<b>Eversource &gt;100-1MW</b>		<b>Eversource &gt;1 MW</b>	
<b>Year Online</b>	<b>Qty</b>	<b>Year Online</b>	<b>Qty</b>	<b>Year Online</b>	<b>Qty</b>
2015	1028	2015	7	2015	0
2016	1871	2016	31	2016	0
2017	1190	2017	8	2017	0
2018	707	2018	9	2018	0
2019	937	2019	11	2019	0
2020	889	2020	12	2020	0
2021	1033	2021	21	2021	1
2022	1908	2022	11	2022	3
2023	2955	2023	2	2023	0
<b>Grand Total</b>	<b>12518</b>	<b>Grand Total</b>	<b>112</b>	<b>Grand Total</b>	<b>4</b>

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(b) Total number of NEM customer-generators by tariff, original net metering (NEM 1.0) and alternative net metering (NEM 2.0)

<b>NEM 1.0 Online</b>	
<b>Year</b>	
<b>Enrolled</b>	<b>Qty</b>
2015	1042
2016	1908
2017	1151
2018*	193
2019*	55
2020*	59
2021*	42
2022*	43
2023*	38

<b>NEM 2.0 Online</b>	
<b>Year</b>	
<b>Enrolled</b>	<b>Qty</b>
2015	N/A
2016	N/A
2017	49
2018	526
2019	895
2020	842
2021	1014
2022	1883
2023	3332

\*Grandfathered (additions to existing projects)

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(c) Number of new applications by the above 3 size categories

<b>Application Year/Size Category</b>	<b>Qty</b>
<b>2015</b>	
>100kW to 1 MW	26
0-100 kW	1712
<b>2016</b>	
>100kW to 1 MW	13
>1 MW	2
0-100 kW	1841
<b>2017</b>	
>100kW to 1 MW	14
>1 MW	8
0-100 kW	1353
<b>2018</b>	
>100kW to 1 MW	31
>1 MW	6
0-100 kW	720
<b>2019</b>	
>100kW to 1 MW	43
>1 MW	23
0-100 kW	1087
<b>2020</b>	
>100kW to 1 MW	33
>1 MW	10
0-100 kW	1015
<b>2021</b>	
>100kW to 1 MW	21
>1 MW	5
0-100 kW	1496
<b>2022</b>	
>100kW to 1 MW	24
>1 MW	23
0-100 kW	4130
<b>2023</b>	

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>100kW to 1 MW	26
>1 MW	32
0-100 kW	2631

(d) Number of approved new applications by the 3 size categories

<b>Approval Year/Size Category</b>	<b>Qty</b>
<b>2015</b>	
>100kW to 1 MW	21
0-100 kW	1638
<b>2016</b>	
>100kW to 1 MW	13
0-100 kW	1760
<b>2017</b>	
>100kW to 1 MW	8
0-100 kW	1383
<b>2018</b>	
>100kW to 1 MW	6
>1 MW	1
0-100 kW	711
<b>2019</b>	
>100kW to 1 MW	27
0-100 kW	1064
<b>2020</b>	
>100kW to 1 MW	16
>1 MW	1
0-100 kW	1004
<b>2021</b>	
>100kW to 1 MW	12
>1 MW	1
0-100 kW	1391
<b>2022</b>	
0-100 kW	3722
<b>2023</b>	
>100kW to 1 MW	1

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>1 MW	1
0-100 kW	2367

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**Request from: Community Power Coalition of New Hampshire**

**Witness: Boutin, Warren R**

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**Request:**

**RE: RE: Joint Testimony p.9, lines 7:** For each utility, please indicate the number of pending NEM interconnection applications by size category (0-100kW, >100 kW to 1 MW, > 1 MW, as of the most recent close of month (e.g. 8/31, 7/31, or 6/30) for which data can be compiled.

**Response:**

Please see the table below for the requested information:

<b>Pending NEM Applications as of 9/30/23</b>	
<b>Size Category</b>	<b>Qty</b>
>100kW to 1 MW	49
>1 MW	62
0-100 kW	3069

**COMMUNITY POWER COALITION OF NH**  
**Docket No. DE 22-060**  
**Consideration of Changes to the Current Net Metering Tariff Structure,**  
**Including Compensation of Customer-Generators**

**Data Requests Set 1**  
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**CPCNH 1-1:**

**RE: Joint Testimony p.9, lines 7:** Referencing increasing levels of customer participation in net energy metering (NEM), please provide a table or spreadsheet for each utility for the calendar (or fiscal) years 2015 – 2022, and for the first 6 months of CY 2023 the following data:

- (a) Total number of NEM customer-generators and by size category: 0-100 kW, >100kW to 1 MW, >1 MW
- (b) Total number of NEM customer-generators by tariff, original net metering (NEM 1.0) and alternative net metering (NEM 2.0)
- (c) Number of new applications by the above 3 size categories
- (d) Number of approved new applications by the 3 size categories

**Response:**

(A)

**0-100 kW**

<u>Year</u>	<u>Number of NEM Customer-Generators</u>	<u>Comments</u>
2015	294	
2016	601	
2017	721	
2018	800	
2019	925	
2020	1026	
2021	1162	
2022	1554	
2023	1843	First 6 Months of 2023

**> 100 kW to 1 MW**

<u>Year</u>	<u>Number of NEM Customer-Generators</u>	<u>Comments</u>
2015	0	
2016	0	
2017	0	
2018	1	

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2019	1	
2020	2	
2021	4	
2022	6	
2023	6	First 6 Months of 2023

**>1MW**

<u>Year</u>	<u>Number of NEM Customer-Generators</u>	<u>Comments</u>
2015	2	
2016	2	
2017	2	
2018	2	
2019	2	
2020	2	
2021	2	
2022	2	
2023	2	First 6 Months of 2023

(B) The following table represent the number of In Operation Net Metering Customer Generators ending Q2 2023. The date the application was deemed complete determines the applicable tariff (ex. If the application was deemed complete prior to September 1, 2017 it falls under the NEM 1.0 Tariff). This table does not address changes to the applicable tariff, if any, that a customer generator experienced due to system expansions post September 1, 2017.

Total Number of NEM Customer Generators In Operation by Tariff

<b>Tariff</b>	<b>Count</b>
NEM 1.0	755
NEM 2.0	1225



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(C) The following tables represent the number of Net Metering applications received in the given year

**0-100 kW**

<u>Year</u>	<u>Number of NEM Customer Generator Applications</u>	<u>Comments</u>
2015	304	
2016	259	
2017	156	
2018	75	
2019	141	
2020	138	
2021	189	
2022	621	
2023	462	* First 6 Months of 2023

<u>Year</u>	<u>Number of NEM Customer Generator Applications</u>	<u>Comments</u>
2015	0	
2016	0	
2017	0	
2018	0	
2019	0	
2020	0	
2021	1	
2022	0	
2023	0	First 6 Months of 2023

**>1MW**

<u>Year</u>	<u>Number of NEM Customer Generator Applications</u>	<u>Comments</u>
2015	0	
2016	0	
2017	0	
2018	0	
2019	0	
2020	0	

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2021	1	
2022	0	
2023	1	First 6 Months of 2023

(D) The following tables represent the number of Net Metering applications approved in the given year

**0-100 kW**

<u>Year</u>	<u>Number of NEM Customer Generator Application Approvals</u>	<u>Comments</u>
2015	250	
2016	306	
2017	158	
2018	73	
2019	140	
2020	119	
2021	169	
2022	589	
2023	421	First 6 Months of 2023

**> 100 kW to 1 MW**

<u>Year</u>	<u>Number of NEM Customer Generator Application Approvals</u>	<u>Comments</u>
2015	0	
2016	1	
2017	1	
2018	0	
2019	1	
2020	0	
2021	3	
2022	3	
2023	0	First 6 Months of 2023

**>1MW**

<u>Year</u>	<u>Number of NEM Customer Generator Application Approvals</u>	<u>Comments</u>
2015	0	
2016	0	
2017	0	

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2018	0	
2019	0	
2020	0	
2021	0	
2022	1	
2023	0	First 6 Months of 2023

**Person Responsible:** John Bonazoli

**Date:** October 12, 2023

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**CPCNH 1-3:**

**RE: Joint Testimony pp. 11-12, where the Joint Utilities indicate actual cost and benefits are difficult to validate, uncertain risk of cost shifting and conclusion that there is no need for significant revisions to the tariffs:** Please provide the following data for each utility:

- (a) For each calendar year that a NEM cost recovery mechanism has been in place, including the first 6 months of 2023, the gross and net dollar amount of compensation paid to NEM customer-generators to be recovered through the Unitil delivery charge, Eversource stranded cost recovery charge, and the Liberty default service rate, respectively, or such other cost recovery account as been in place. Please provide this data by total and by the 3 size categories (0-100kW, >100 kW to 1 MW, > 1 MW).
- (b) For each of the calendar years referenced above any revenue from NEM customer-generators that has been credited to the cost recovery account related to NEM.
- (c) If the revenue received reported in (b) above does not equal the difference between gross and net amount charged to cost recovery accounts for each year, then please explain the difference.
- (d) Please indicate the number of NEM customer-generators that are also ISO-NE market participants for which the utility received or receives energy and/or capacity revenue from the ISO New England market, by total and each of the 3 size categories for each of the past 3 calendar years (2020 – 2022 and the first 6 months of 2023
- (e) For each calendar year referenced in (a) above, please indicate the total kWh exported to the grid by NEM customer-generators on default service by the 3 size categories. This may be just for NEM 2.0 customers (net monthly exports that get default service rate credit) and may separately report for NEM 1.0 customer, which would most likely would most readily be reported as net exports over the calendar year. Such data for NEM 1.0 customers may be excluded if not readily available. For NEM 1.0 customer generators, please also report such data by size category if possible, or at least to differentiate between up to 100 kW and over 100 kW.

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**Response:**

(a) The table below provides the net metering credits UES recovered through its External Delivery Charge (EDC) and through its Default Service Charge (DSC) for calendar year 2020 through June 2023. Information regarding size categories is not readily available.

Beginning June 1, 2022, the EDC includes the amounts credited to, or paid to, customer generator net metering customers with an excess of 600 kWh banked at the end of the March billing cycle who opt to be credited or paid in accordance with the Puc 900 rules, as well as any monthly amounts credited to, or paid to, large customer generators or group net metering customers including any required annual credit reconciliation in accordance with Puc 900. Prior to June 1, 2022, group costs and net meter costs prior to the advent of alternative net metering were recovered through the DSC while alternative net metering costs were recovered through the EDC.

	<b>Jan-Dec 2020</b>	<b>Jan-Dec 2021</b>	<b>Jan-Dec 2022</b>	<b>Jan-Jun 2023</b>
Net Metering Credits included in EDC	\$ 107,200.73	\$ 124,254.74	\$ 2,108,502.29	\$ 8,209,589.90
Net Metering Credits included in DSC	<u>\$ 65,213.43</u>	<u>\$ 78,471.53</u>	<u>\$ 42,129.36</u>	<u>\$ -</u>
<b>Total</b>	<b>\$ 172,414.16</b>	<b>\$ 202,726.27</b>	<b>\$ 2,150,631.65</b>	<b>\$ 8,209,589.90</b>

(b) The table below provides the revenue from NEM customer-generators that has been credited to the External Delivery Charge for calendar year 2020 through June 2023. Prior to June 2022, wholesale revenues were paid directly to the hydro dams as a QF, instead of net metering, therefore UES would provide payment to them each month for the ISO revenues received.

	<b>Jan-Dec 2020</b>	<b>Jan-Dec 2021</b>	<b>Jan-Dec 2022</b>	<b>Jan-Jun 2023</b>
Market Energy Revenue – Net Metering	\$ -	\$ -	\$ 711,129.97	\$ 1,461,926.62

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- (c) The net metering credits provided in response to part (a) are largely driven by the retail default service rate whereas the revenues provided in response to part (b) are market based. Therefore, these amounts can vary significantly.
- (d) Unitil has two net metering customers-generators that are ISO-NE market participants. Both facilities were installed in 2022 and are in operation through 2023. Both customers are larger than 1 MW.
- (e) Unitil does not have information regarding size categories readily available, nor does it have this data for NEM 1.0 (standard) customers.

For NEM 2.0 (alternative) customers on default service,

	<b>Jan-Dec 2020</b>	<b>Jan-Dec 2021</b>	<b>Jan-Dec 2022</b>	<b>Jan-Jun 2023</b>	<b>Jan 2020- Ju 2023</b>
Exported kWh to the grid	2,201,785	2,908,541	14,712,178	32,420,922	52,243,426

**Person Responsible:** K. Asbury / E. Leake

**Date:** October 12, 2023