



Public Utilities Commission

ISO-NE Distributed Generation Forecast Working Group

New Hampshire Update

on

*State Distributed Generation
Policy Drivers*

December 7, 2020

Topics

- Net Metering
 - Solar PV Installed Capacity Data and Trend
 - Alternative Net Metering Tariff Docket Update
 - State Policy and Program Updates

- New Hampshire Distributed Generation Policy Drivers
 - 2020 Legislative Update
 - 2021 Legislative Service Requests

Net Metered Solar Facilities as of August 2020

Electric Distribution Utility	Total # Installs to Date*	Total Installed Capacity (MW)*
Liberty Utilities	653	8.191
New Hampshire Electric Coop.	1,098	9.396
Eversource Energy	7,400	81.820
Unitil Energy Systems, Inc.	995	10.014
Total Net Metered Facilities	10,146	109.421

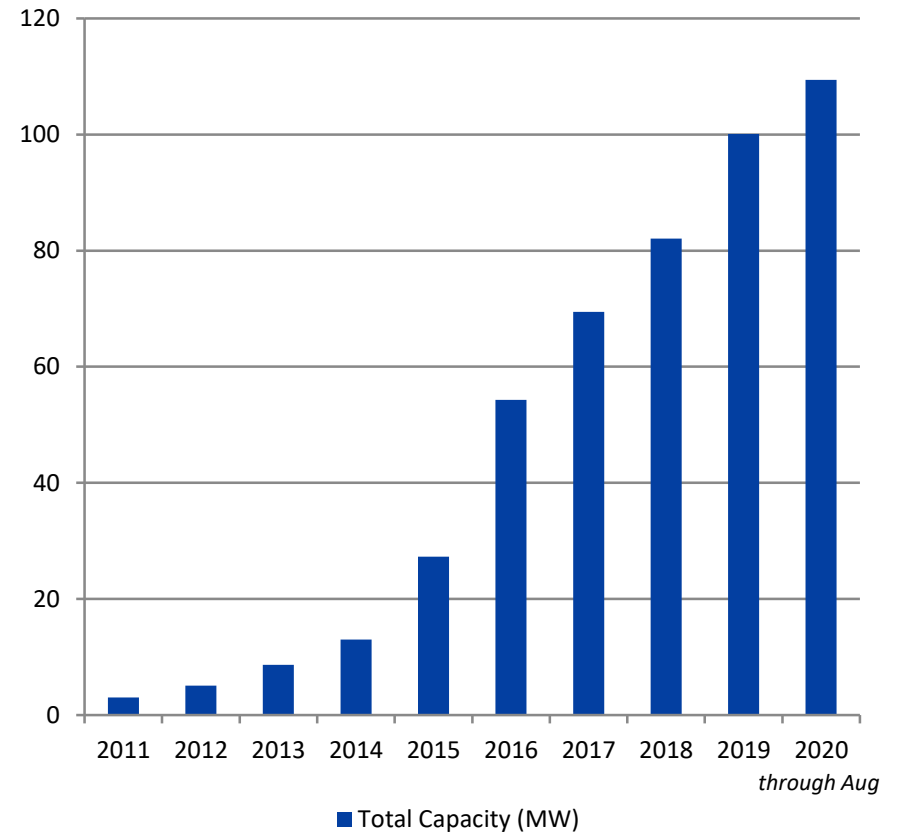
***Based on the utility reports to DOE EIA-861M (formally EIA-826) including system expansions.
(Downloaded November 2020. Data is through August 2020.)**

Net Metering Capacity Trend (Solar only)

Statewide Net Metered Solar PV Capacity

3.02 MW (Dec. 2011)
5.06 MW (Dec. 2012)
8.62 MW (Dec. 2013)
12.98 MW (Dec. 2014)
27.25 MW (Dec. 2015)
54.31 MW (Dec. 2016)
69.42 MW (Dec. 2017)
82.06 MW (Dec. 2018)
100.07 MW (Dec. 2019)
109.42 MW (Through August 2020)

Net Metered Solar PV Capacity



Net Metering – Annual MW Increase (Solar only)

Year	Total Capacity (MW)	Year-to-Year Increase (MW)
2011	3.020	3.020
2012	5.060	2.040
2013	8.621	3.561
2014	12.976	4.355
2015	27.247	14.271
2016	54.309	27.062
2017	69.421	15.112
2018	82.064	12.643
2019	100.073	18.009
2020 *	109.421	9.348

**2020 data available through August*

Alternative Net Metering Tariff Docket Update (DE 16-576)

- Effective Date for New Alternative Net Metering Tariff is September 1, 2017
 - Existing and new NEM facilities are grandfathered through 2040
 - New tariff applicable for only Eversource, Unitil, and Liberty Utilities; not for New Hampshire Electric Cooperative
 - Shift from kWh credit to monetary bill credit
 - Credit carries forward on customer bill

- NEM Docket pilot programs and studies continue
 - Locational Value of Distributed Generation Study
 - Final Report filed in August, 2020
 - Value of Distributed Energy Resources Study
 - RFP issued
 - Selecting and contracting with a consultant
 - Study in 2021

State Policies and Programs

- New Hampshire's Net Metering & Group Net Metering (RSA 362-A:9)
 - New Group Net Metering policies
 - On-bill Crediting
 - LMI Community Solar Project Adder
 - Puc 900 Administrative Rules updated
 - Siting
 - Net Metering Tariffs – original and alternative
 - Group Net Metering – LMI Adder and On-bill Crediting
 - Miscellaneous Updates

- New Hampshire's RPS (RSA 362-F)
 - Class II (Solar) RPS requirement : 0.3% in 2017, 0.5% in 2018, 0.6% in 2019, and 0.7% in 2020 and beyond
 - Renewable energy certificates (RECs) awarded to eligible, certified, renewable generators

<u>Class II NEM Credit</u> 2019 = 0.4794% 2020 and beyond = ?%
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2020 Legislative Updates - Net Metering

Legislation Enacted

- **Senate Bill 166** modified the net metering section of the “Limited Electrical Energy Producers Act.” Municipal and County aggregators, in addition to competitive electricity suppliers, may determine the terms under which they will supply, credit, or purchase renewable energy exported to the distribution grid from eligible customer-generators.

Legislation Vetoed

- **HB 365** – relative to net energy metering limits for customer generators
- **SB 159** – relative to net energy metering limits for customer generators

2021 Legislative Service Requests (LSRs) – RPS & Net Metering

2021 LSRs filed as of November 20, 2020

LSR	DESCRIPTION
2021-0044	relative to renewable generation facility property subject to a voluntary payment in lieu of taxes agreement.
2021-0046	establishing procedures for municipal host customer-generators of electrical energy.
2021-0135	establishing greenhouse gas emission reduction goals for the state and establishing a climate action plan.
2021-0154	relative to net energy metering limits for customer generators and the purchase of output of limited electrical energy producers.
2021-0202	relative to estimates of total yearly production for certain customer-sited
2021-0204	relative to alternative compliance payments for renewable energy obligations not met through the purchase of renewable energy credits.
2021-0213	relative to the calculation of net energy metering payments or credits.
2021-0344	allowing increased net energy metering limits for municipal hydro- electric facilities.
2021-0381	relative to credits for certain energy production not issued renewable energy certificates.
2021-0543	relative to the computation of renewable energy credits.

Thank you

Karen Cramton
Director, Sustainable Energy Division

Karen.Cramton@puc.nh.gov

603-271-2431

<http://www.puc.nh.gov/Sustainable%20Energy/SustainableEnergy.htm>

Net Energy Metering Tariff - Systems Less Than or Equal to 100 kW_{AC}

Bill Component	NEM 1.0 (Standard NEM)	NEM 2.0 (Alternative NEM)
Customer Charge	Must Pay	Must Pay
Demand Charge (if applicable)	Must Pay	Must Pay
Default Service (Energy)	Full Credit	Full Credit
Distribution	Full Credit	25% Credit
Transmission	Full Credit	Full Credit
System Benefits	Full Credit	No Credit
Stranded Cost	Full Credit	No Credit
Storm Recovery	Full Credit	No Credit
Credit Mechanism (end of each billing cycle)	Net kWh Carried Forward	kWh converted to monetary credit. Monetary credit carried forward as a bill credit.

Volumetric charges based on kWh

“Non-bypassable Charges”
Under NEM 2.0 Tariff, these charges are applied to **all** kWh imports.

No credit is given for exported kWh.

For ease of reference, **NEM 1.0** (Standard NEM) refers to the net metering tariff in effect prior to September 1, 2017 and **NEM 2.0** (Alternative NEM) refers to the net metering tariff in effect beginning September 1, 2017.

Net Energy Metering Tariff - Systems > 100 kW_{AC} and ≤ 1 MW_{AC}

Volumetric charges based on kWh

Bill Component	NEM 1.0 (Standard NEM)	NEM 2.0 (Alternative NEM)
Customer Charge	Must Pay	Must Pay
Demand Charges	Must Pay	Must Pay
Default Service (Energy)	Full Credit	Full Credit
Distribution	No Credit	No Credit
Transmission	No Credit	No Credit
System Benefits	No Credit	No Credit
Stranded Cost	No Credit	No Credit
Storm Recovery	No Credit	No Credit
Credit Mechanism (end of each billing cycle)	Net kWh Carried Forward	kWh converted to monetary credit. Monetary credit carried forward as a bill credit.

For ease of reference, **NEM 1.0** (Standard NEM) refers to the net metering tariff in effect prior to September 1, 2017 and **NEM 2.0** (Alternative NEM) refers to the net metering tariff in effect beginning September 1, 2017.