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- 1. Net Metering
- 2. Group Net Metering
- 3. GNM LMI Adder
- 4. Recent GNM legislation

Electric Rates – Bill Components

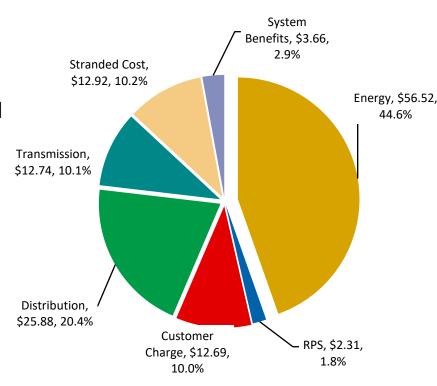
Delivery

- Customer Charge
- Transmission (FERC)
- Distribution (PUC)
 - NHEC as member-owned coop has minimal PUC rate regulation

Energy

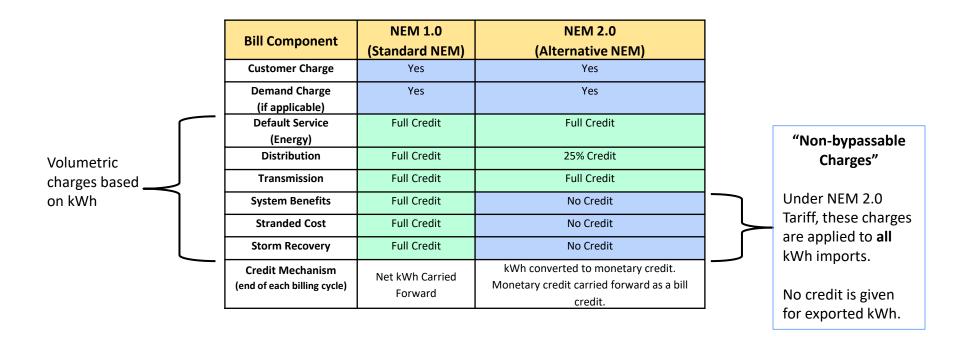
- Varies by utility and time of year
- Includes RPS and RGGI
- Other components
 - System Benefits Charge, Stranded Cost

Eversource Electric Rate Components Resident Using 625 kWh/month Total Bill: \$126.72



Based on rates in effect January 2019; Components vary by utility; RPS is forecasted

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



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 Large customer generators Systems > 100 kW_{AC} and <= 1 MW_{AC} (5 MW _{AC} *)

	Bill Component	NEM 1.0 (Standard NEM)	NEM 2.0 (Alternative NEM)
Volumetric charges based on kWh	Customer Charge	Yes	Yes
	Demand Charges	Yes	Yes
	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.

^{*} Municipal Group Host projects under RSA 362-A, may net meter between 1-5 MWAC

Group Net Metering Basics

- **RSA** 362-A:9, XIV permits net-metered renewable energy facilities (customer-generators) to share the proceeds from net excess electricity generation with other electric utility customers.
 - The customer-generator is the "Host".
 - The utility customers that are part of the Host's Group are "Members".
 - Large customer generators which do not use at least 20% BTM must register as a group.

•Rules and Requirements to qualify for Group Net Metering (GNM):

- Total load of Host plus all Members must be greater than or equal to annual system generation.
- Members must be located in the same distribution utility as the Host.
- The Host and the Members may purchase energy from a competitive supplier*. Tariff is determined based on host arrangement.
- Members may not have net metered renewable energy facilities unless they meet requirements of 362-A:9, XIV(a) (most often 'political subdivision' members).
- GNM agreement must be in place between Host and Members.
- Refer to Puc 900 Administrative Rules for details.

^{*} Purchasing energy from a competitive supplier may impact net metering compensation.

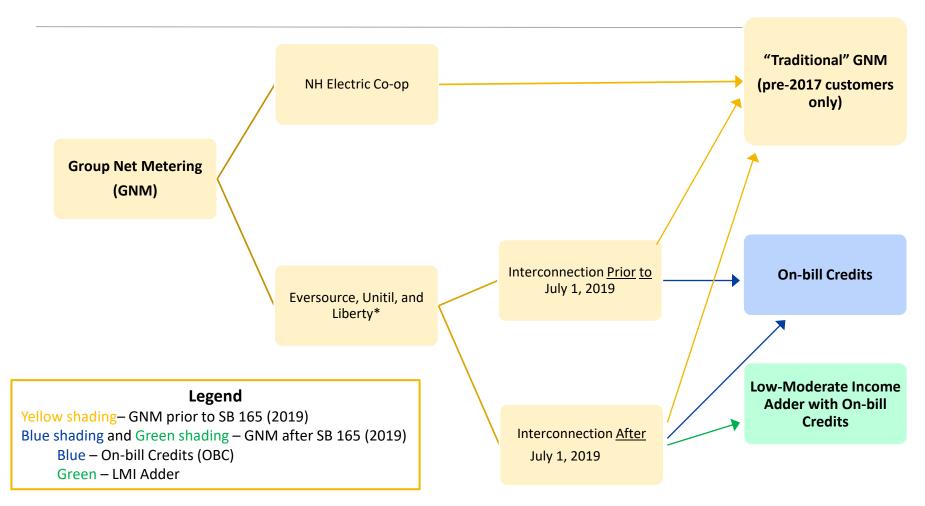
Group Net Metering Forms and Reporting

- ■Host must submit an application for group host registration to the DOE and Utility using Form 909.09, or information required in Puc 909.09.
 - Application may be submitted electronically.
 - Application available for download at:
 - Group Net Metering | NH Department of Energy

Annual reporting

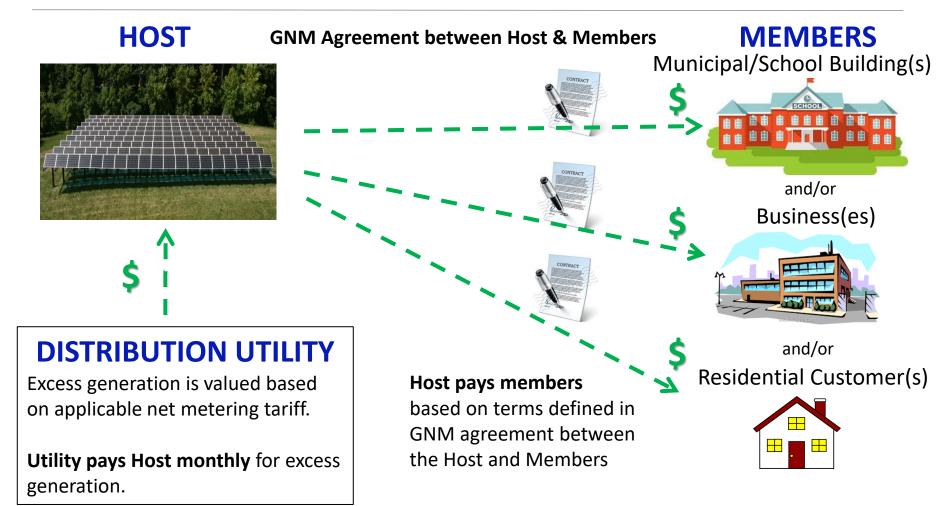
- Host is required to file an annual report with the DOE and Utility
 - Annual report is not required for residential systems less than 15 kW in capacity (size)
- Report includes:
 - Actual annual load of members
 - Actual annual generation of system
 - Additional required information for LMI Community Solar Projects

Group Net Metering Options



^{*}Note 362-A:1-a, II-c statute enabled "Municipal group hosts" which may group net meter between 1 and 5MW AC. All other groups may be up to 1 MW AC.

"Traditional" Group Net Metering



Within Single Distribution Utility Service Territory

Group Net Metering

On-bill Crediting

Senate Bill 165 (2019) effective July 1, 2019:

- On-bill crediting (OBC) is an option for all existing and new groups
 - This allows the host to have monetary credits applied directly to the bills of group members
- Once the group is registered, OBC works as such:
 - 1. Host meter/system produces excess generation at renewable site.
 - 2. Monthly net excess generation is converted to a monetary value based on applicable net metering tariff.
 - 3. Distribution utility applies monetary bill credits to the host and to each group member based on percentage allocations defined by host.
 - The host may elect to receive payment annually or once per quarter as outlined under RSA 362-A:9,V. LMI hosts may elect to receive payment each month (909.13(c))
 - Credit allocations must be more than 0% for host and each member

On-bill Credit Example 1

HOST



50% \$50 bill credit- pay annual or quarterly

Host assigns allocation to Host and each Member as a % of total monetary credit

Note load and credit allocation may not / be aligned

% Allocation Municipal/Sch

\$20 bill credit

Municipal/School Building(s)



MEMBERS

and/or
Business(es)



DISTRIBUTION UTILITY

Excess generation is valued based on applicable net metering tariff.

Ex. 1,000 kWh x 0.10/kWh = 100

Otility applies on-bill monetary credit on Member and/or Host electric bills each billing cycle based on predefined percentage allocations. 20% \$20 bill credit

10%

20%

and/or

Residential Customer(s)





Within Single Distribution Utility Service Territory

Group Net Metering

LMI Adder

Senate Bill 165 (2019) effective July 1, 2019:

RSA 362-A:9 and RSA 362-F:2

Adder for Low-Moderate Income (LMI) Community Solar Projects

- Available to LMI Group Net Metering projects interconnected after July 1, 2019.
- Additional \$0.025/kWh of credit for qualifying groups
- X-a. "Low-moderate income community solar project" means ground-mounted or rooftop solar arrays that
 - directly benefit a group of at least 5 residential end-user customers, where at least a majority of the residential end-user customers are at or below 300 percent of the federal poverty guidelines, or
 - directly benefit the residents of a public housing authority created pursuant to RSA 203 or a housing project as described in RSA 78-B:2, XXIII, where the electric bills are either paid directly by the residents or by the public housing authority or housing project, provided that at least a majority of the residents receiving the direct benefit are at or below 80 percent of the Area Median Income (AMI) calculated by the Department of Housing and Urban Development. (enabled 2023, SB 161, 2023)
 - No more than 15 percent of the projected load for such project shall be attributable to non-residential end-user customers. (host + members)

Group Net Metering

LMI Adder

Group Net Metering LMI Adder Rule Requirements

Puc 900 rules

- Direct Benefit requirements
 - Residential end-user customer members- On-bill credits
 - A group member that is an affordable housing project shall provide direct, quantifiable benefits, such as rental payment reductions, building improvements, energy efficiency measures, wireless internet access, investments in new affordable housing units, or resident services to the extent not reimbursed or otherwise funded by a federal, state, or local source, to the tenants or residents of that project, unless the provision of such benefits would result in any tenant's or resident's ineligibility for, or reduction in the amount of benefits available from, any other federal, state, or local assistance program. (909.13(e))
- At least 12% of total monthly monetary credit must benefit LMI members (909.13(h))
- •No LMI member shall be charged or assessed any subscription fee, investment amount, termination fee, withdrawal charge, or other cost, expense, fee, charge, price, or other amount as a condition of his or her group membership (909.13(d)(8))

LMI Community Solar Project

(Group Net Metering – LMI Adder with On-bill Crediting)

MEMBERS

HOS

(Maximum 15% load including nonresidential member load)



Host must elect On-bill Crediting

LMI Adder applies to all excess generation

Credit allocations are not necessarily the same as host or member annual load

Municipal Bldgs, Schools, & Businesses (Maximum 15% load including host load)





Monetary

bill credits

Monetary bill credit

AND/OR

Qualifying Affordable Housing



bill credit



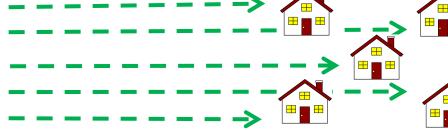
AND/OR

DISTRIBUTION UTILITY

Monetary bill credit, including LMI Adder

Excess generation is valued based on applicable alternative net metering tariff + LMI Adder.

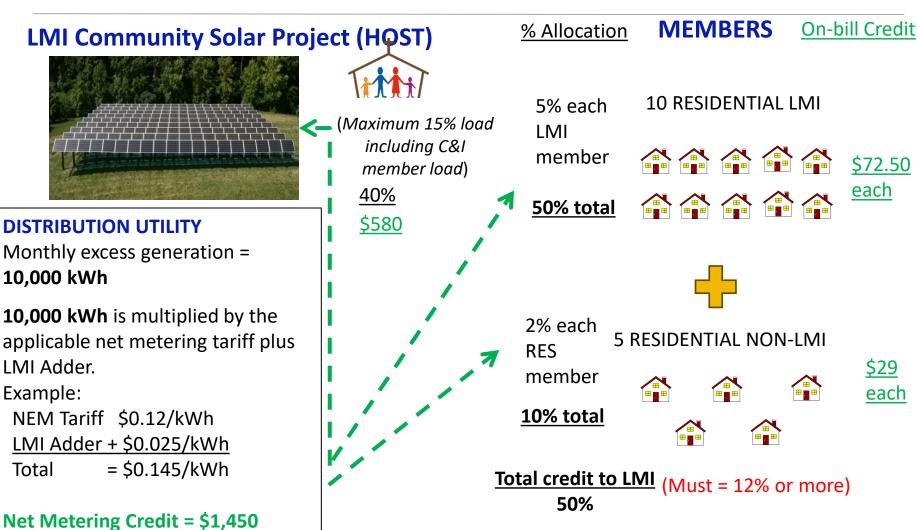
Utility applies on-bill monetary credit on Member and/or Host electric bills each billing cycle based on predefined percentage allocations. Residential Customers (minimum 5, majority LMI)



Within Single Distribution Utility Service Territory

LMI Community Solar Project Example

EXAMPLE 1: RESIDENTIAL LMI MEMBERS- 100 kW system



LMI Community Solar Project Example

EXAMPLE 2: Eligible Affordable Housing LMI Members- 1MW system

MEMBERS

HOST





(Maximum 15% load including C&I member load)

Non-residential Members (Maximum 15% load including host load)

% Allocation

10%

On-bill Credit



\$1,250



78%

\$10,000 monetary bill credit or check

Eligible Affordable Housing Residents

\$1,500

DISTRIBUTION UTILITY

Excess generation is valued based on applicable alternative net metering tariff + LMI Adder.

(100,000 kWh/month * .125)= \$12,500 **Utility applies on-bill monetary credit** on Member and/or Host electric bills each billing cycle based on predefined percentage allocations.



<u>12%</u>

Total credit to LMI 12%

(Must = 12% or more)



Majority residents receiving direct benefit must be below 80% AMI

Within Single Distribution Utility Service Territory

Municipal Group Hosting enabled 2021

House Bill 315 (2021) established and subsequent bills in 2022 and 2023 altered

- Allows GNM for projects 1-5MW for "Municipal hosts" as outlined in 362-A:1-a, II-c
 - Host may be owned by a public or private entity (not required to be a political subdivision)
 - Members must be in the same utility service territory (HB 281, 2023)
 - Members must all be "political subdivisions" as outlined in statute 362-A:1-a, II-c:
- Political subdivision means "the state of New Hampshire or any city, town, county, school district, chartered public school, village district, school administrative unit, or any district or entity created for a special purpose administered or funded by any of the above-named governmental units."
- RSA 362-A

Group Net Metering

SB 270 (2022) and EAP LMI Adder Group Net Metering

Senate Bill 270 (2022) Senate Bill 270

- Requires electric distribution utilities to establish a list specifically consisting
 of residents who have enrolled in or are on the waitlist for the state Electric
 Assistance Program (EAP). These will be members allocated by utility to
 designated projects based on approved per-member load estimates.
- Allows for up to 6 MW per year in total capacity of projects to be designated
 as eligible through a process in development at the Department and based
 on which projects will give the largest on-bill-credit.
- Will enroll qualifying customers on an opt-out basis into designated eligible projects, which must meet the definition of LMI Community Solar Projects and will be eligible to receive the LMI Adder.
- Expected before end of 2023
- Draft process proposal available on <u>SB 270 public process webpage</u>

Solar For All Update

- Solar for All is a \$7 billion program run by the EPA, funded as part of the IRA
- Program is designed to deliver the benefits of solar to low-moderate Income households making less than 80% of area median income
- NH DOE filed an application on October 12, 2023 with a total ask of \$70,000,000
- NH DOE has requested \$10,000,000 to scale up our existing LMI Community Solar Grant Program
- EPA is making the funding available on a competitive basis, no guarantee NH will receive an award, or the full amount requested.
- EPA anticipates making award selections in March 2024, with awards made in July 2024

Thank you

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Renewable Energy Fund Programs



Residential Programs

- Solar/Wind Rebate Program
- Wood Pellet Heating System Rebate Program
- Low and Moderate Income Solar
 Grant Program

Compliance Year	ACP Revenue		Total RPS Obligation
2011	\$	19,121,853	9.58%
2012	\$	9,323,198	5.50%
2013	\$	17,458,196	5.80%
2014	\$	4,406,804	7.20%
2015	\$	4,224,339	8.30%
2016	\$	3,633,342	8.50%
2017	\$	5,258,420	17.60%
2018	\$	3,101,432	18.70%
2019	\$	2,558,411	19.70%
2020	\$	4,890,883	14.70%
2021	\$	7,190,044	14.60%
2022	\$	7,358,995	15.00%

Commercial & Industrial Programs

- Solar/SHW Rebate Program
- Wood Pellet Heating System Rebate Program
- Competitive Non-Residential Grant Program

Low Moderate Income (LMI) Grant Program

- RSA 362-F:10, X- Minimum of 15% of the total REF allocation each year must benefit LMI residential customers and/or residents of eligible affordable housing units.
- Competitive grant program fiscal years 2018 through 2024
- Project general eligibility criteria:
 - Directly benefit LMI residential electric customers
 - Quantifiable direct benefit to a minimum of five residential electric customers within the same electric distribution utility service territory
 - At least the majority of participants are LMI (defined as less than or equal to 300 percent of the federal poverty guidelines)
 - Directly benefit eligible affordable housing residents
 - Directly benefit the residents of a public housing authority created pursuant to RSA
 203 or a housing project as described in RSA 78-B:2, XXIII,
 - At least a majority of the residents receiving the direct benefit must be at or below 80 percent of the Area Median Income (AMI) calculated by the Department of Housing and Urban Development.

Low Moderate Income (LMI) Grant Program

- Additional Requirements
 - If projects intend to request full funding, 75% of project's net revenues from electric generation must directly benefit LMI participants.
 - Project completion period is currently 24 months from contract approval by the Governor and Executive Council.
- Scoring criteria include:
 - maximum direct benefits to LMI residential electric customers (40%)
 - technical project specifications,
 - project feasibility and readiness,
 - project administration and management.

Low Moderate Income (LMI) Grant Program

Grant Timing and How to Apply

- Grant process historically approved and RFP released in the fall of each year
- How to learn about RFP release
 - Sign up to receive LMI Grant Program notification by selecting REF Low-Moderate Income Community Solar Projects Program: <u>Subscribe to our Newsletters (nh.gov)</u>
 - Monitor DOE grant page and RFP page
 - Requests for Proposals | NH Department of Energy
 - Low-Moderate Income Solar Grant Program | NH Department of Energy
 - How to apply
 - When RFP is released prepare proposal paying close attention to the instructions of the RFP.
 - Allow time for preparation, the process can be extensive.
 - Be sure to answer all questions asked.
 - Submit questions in writing during the open question period listed in RFP. Answers will be posted publicly under the RFP online.

LMI Projects: things to think about

- Benefit to LMI (most important grant scoring criteria)
- Impact of benefit on participant income levels
- Group net metering considerations if applicable
 - Who will manage registration and group management?
 - Group changes, annual reporting, benefit tracking
 - Will you pursue the LMI Adder?
 - Do you want to choose and manage members?
 - Will you pursue EAP LMI project designation? (members selected by utility)

Additional Resources

Additional Resources: LMI Grant Program

Renewable Energy Fund Grants

Non-Residential Sector Competitive Grants Program and Low-Moderate Income Solar Grant Program

More information for each program is available on the pages below.

SIGN UP FOR GRANT PROGRAM NOTIFICATIONS

<u>Use the sign-up page to receive notifications</u> on the Renewable Energy Fund Grant Programs.







LMI Solar Grant Program website:

Low-Moderate Income Solar Grant Program | NH Department of Energy

Additional Resources: LMI Grant Program

Examples of past project models can be found in each year's REF Report under the LMI section

Renewable Energy Fund | NH Department of Energy

Examples and more information about the Grant Program can also be found in the 2021 report to the Legislature, available on the Grant Webpage

<u>Low-Moderate Income Solar Grant Program | NH Department of Energy</u>