QUESTIONS

Enter any questions or comments into the control panel.
Welcome & How to ask questions
2. Brief program history & setting the stage
3. Speaker Introduction
4. Program updates
5. Questions & Answers
SPEAKER

KAREN CRAMTON

Director
Sustainable Energy Division
NH Public Utilities Commission
NH Electricity Basics: By the Numbers

- 4 franchised electric companies
- 710,000 electric customers served
- 10.8 million MWh annual retail use
- $1.75 billion annual retail sales
- 5 municipal electric companies
  - Not subject to Commission regulation
- Communities Served: (http://www.puc.nh.gov/Consumer/communitiesserved.pdf)
“Net” meter has two measurement channels: The purchase channel measures all energy delivered into your property (“imports”); the sale channel measures any surplus energy that is exported from your property back onto the distribution system (“exports”).
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

**Example Eversource Electric Rate Components**

Resident Using 625 kWh/month

Total Bill: $126.72

- Energy, $56.52, 44.6%
- RPS, $2.31, 1.8%
- Customer Charge, $12.69, 10.0%
- Distribution, $25.88, 20.4%
- Transmission, $12.74, 10.1%
- Stranded Cost, $12.92, 10.2%
- System Benefits, $3.66, 2.9%

Based on rates in effect January 2019; Components vary by utility; RPS is forecasted
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 Less Than or Equal to 100 kW_{AC}

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

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.

**“Non-bypassable Charges”**

Under NEM 2.0 Tariff, these charges are applied to **all kWh imports**.

No credit is given for exported kWh.
## Net Energy Metering Tariff - Systems > 100 kW\textsubscript{AC} and ≤ 1 MW\textsubscript{AC}

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<th>Bill Component</th>
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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.
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”.

- **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 service territory as the Host.
  - The Host and the Members may purchase energy from a competitive supplier*.
  - Members may not have net metered renewable energy facilities.
  - GNM agreement must be in place between Host and Members.
  - Refer to Puc 900 Administrative Rules for details.

- Host must submit an application for group host registration to the PUC and Utility using Form PUC 909.09, or information required in Puc Admin. Rules 909.09.
  - Application may be submitted electronically for “traditional” groups but must be submitted electronically for groups electing on-bill crediting.

* Purchasing energy from a competitive supplier may impact net metering compensation.
Group Net Metering Options

Legend
Yellow shading – Traditional GNM
Blue shading – On-bill Crediting
Green shading – LMI Adder
“Traditional” Group Net Metering

DISTRIBUTION UTILITY
Excess generation is valued based on applicable net metering tariff.

Utility pays Host monthly for excess generation.

HOST

GNM Agreement between Host & Members

MEMBERS
Municipal/School Building(s)
and/or
Business(es)
and/or
Residential Customer(s)

Host pays Members based on terms defined in GNM agreement between the Host and Members

Within Single Distribution Utility Service Territory
Group Net Metering – On-bill Crediting

- On-bill Crediting is now an option for all existing and new groups.
  - Allocation of monetary net metering credit defined by the Host on Form PUC 909.09 (GNM Registration Form).
    - Allocation percentage assigned to the Host and each Member.
    - Total allocation percentage must equal 100 percent.
    - Each member’s percentage allocation must be greater than 0.
  - Monthly net excess generation is converted to a monetary value based on applicable net metering tariff.
  - Distribution utility applies monetary bill credits to the Host and to each Group Member based on percentage allocations specified on Form PUC 909.09.
    - Monetary credit will be separately itemized on each customer’s bill and deducted from the balance due after all applicable charges and all other credits.
  - Group changes allowed up to 4 times per year; and only once per calendar quarter.
Group Net Metering – On-bill Crediting

**DISTRIBUTION UTILITY**

Excess generation is valued based on applicable net metering tariff.

Utility applies on-bill monetary credit on Member and/or Host electric bills each billing cycle based on pre-defined percentage allocations.

**HOST**

On-bill Credits to Host & Members

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

**MEMBERS**

- Municipal/School Building(s)
- Business(es)
- Residential Customer(s)

Monetary bill credit

Within Single Distribution Utility Service Territory
On-bill Crediting Example

**Group Net Metering Registration**
- Host defines % allocations:
  - Host = 50%
  - Municipal Building = 20%
  - Business = 20%
  - Residential Customer = 10%

**Monthly Process by Utility:**
- Monthly excess generation = 1,000 kWh
- 1,000 kWh is multiplied by the applicable net metering tariff
  - For example, net metering tariff = $0.10/kWh
  - 1,000 kWh x $0.10/kWh = $100
  - **Total Net Metering Credit = $100**

- Apply predefined % allocation and provide on-bill monetary credit to Host and Members. For example:
  - Host = $50 ($100 x 50%)
  - Municipal Building = $20 ($100 x 20%)
  - Business = $20 ($100 x 20%)
  - Residential Customer = $10 ($100 x 10%)
On-bill Crediting Example

**HOST**

On-bill Credits to Host & Members

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

**DISTRIBUTION UTILITY**

Excess generation is valued based on applicable net metering tariff.

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

Utility applies on-bill monetary credit on Member and/or Host electric bills each billing cycle based on predefined percentage allocations.

**MEMBERS**

- Municipal/School Building(s)
- Business(es)
- Residential Customer(s)

Within Single Distribution Utility Service Territory

$50 bill credit

$20 bill credit

$20 bill credit

$10 bill credit
Adder for Low-Moderate Income (LMI) Community Solar Projects.

"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. No more than 15 percent of the projected load for such project shall be attributable to non-residential end-user customers.

Available to LMI Group Net Metering projects interconnected on or after July 1, 2019.

Group must elect On-bill Crediting. Host may receive monthly payment from utility equal to the amount of the Host’s monetary credit.

LMI Adder:

- Additional $0.030/kWh until July 1, 2021, and
- Additional $0.025/kWh thereafter
"Low-moderate income community solar project" Requirements:

- Group must have at least 5 residential end-user customers.
- Majority of residential members must have household income at or below 300% of Federal Poverty Guidelines.
- No more than 15% of annual load may be attributable to non-residential end-user customers.
- Affordable Housing project must provide direct benefits to tenants or residents.
- No fees may be charged to LMI Members.
- Host responsible for income verification.
- On-bill Credit allocations to LMI Members and affordable housing projects must be greater than or equal to 12% of the total credit amount allocated to the Host and all group Members.
- Monthly net excess generation is converted to a monetary value based on applicable net metering tariff plus LMI Adder.
- Distribution utility applies monetary bill credits to the Host and to each Group Member based on percentage allocations specified on Form PUC 909.09.
- Monetary credit will be separately itemized on each customer’s bill and deducted from the balance due after all applicable charges and all other credits.
- Group changes allowed up to 4 times per year; and only once per calendar quarter.
LMI Community Solar Project

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

HOST

Must meet all requirements for LMI community solar projects

Host must elect On-bill Crediting

LMI Adder applies to all excess generation

DISTRIBUTION UTILITY

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.

MEMBERS

Municipal Bldgs, Schools, & Businesses

(Maximum 15% load)

Affordable Housing

Residential Customers

(minimum 5, majority LMI)

Within Single Distribution Utility Service Territory
LMI Community Solar Project Example

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

**LMI Community Solar Project (HOST)**

- **DISTRIBUTION UTILITY**
  - Monthly excess generation = 1,000 kWh
  - 1,000 kWh is multiplied by the applicable net metering tariff plus LMI Adder.
  - Example:
    - NEM Tariff $0.10/kWh
    - LMI Adder + $0.03/kWh
    - Total = $0.13/kWh
    - Net Metering Credit
    - 1,000 kWh x $0.13/kWh = $130

- **MEMBERS**
  - LMI Member 1
  - LMI Member 2
  - LMI Member 3
  - Member 4
  - Member 5
  - Municipal Bldg
  - Affordable Housing

**% Allocation**
- 10%
- 10%
- 10%
- 10%
- 20%
- 20%

**On-bill Credit**
- $13
- $13
- $13
- $13
- $26
- $26
Form PUC 909.09 – Group Net Metering Registration

- Excel-based Application
- Application available for download at:

Group Net Metering Registration

Form Sections

A. Host Information
B. Member Information
C. Group Summary
D. Group Certifications
E. LMI Certifications
### Section A. Host Information

#### Registration Type
- New Registration
- Previously-approved Registration
  - Re-registration
  - Modifying Host and/or Member Information

#### Host and Contact Information

#### Facility Information

---

A1. Indicate (check) the Registration Type below:

- [ ] New Registration
- [ ] Previously-approved Registration: [ ] Re-registering, or [ ] Modifying Host and/or Member Information

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A2. Person Responsible for Responding to Application Inquiries

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<th>First</th>
<th>Last</th>
<th>Phone</th>
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A3. Person Responsible for Ongoing Group Registration Inquiries

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<th>Name</th>
<th>Phone</th>
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A4. Facility Owner/Operator Information

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<th>Facility Owner Name</th>
<th>Phone</th>
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<th>Operator Name (if different)</th>
<th>Phone</th>
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A5. Host Information

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<th>Name or Trade Name</th>
<th>Phone</th>
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<th>Zip Code</th>
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<th>Billing Address (if different than Service Address)</th>
<th>Town</th>
<th>State</th>
<th>Zip Code</th>
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<tr>
<th>Distribution Utility Name</th>
<th>Rate Class</th>
<th>Electric Meter #</th>
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<thead>
<tr>
<th>Host’s Website Address (if applicable)</th>
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<table>
<thead>
<tr>
<th>Utility ID# of Host Facility</th>
</tr>
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</table>

A6. Host Facility, Production, and Usage Information

- Renewable energy source (e.g., Solar, Hydro, Wind, etc.): [ ]

- Generation capacity of host’s facility (Maximum kW AC for inverter-based facilities, kW nameplate capacity otherwise): kW

- Host’s actual annual output, if known, or projected annual output (kWh/year): kWh

- Host’s total historic annual load (kWh/year) (if applicable): kWh

- Host’s projected annual load (kWh) (if different from historic): kWh

- Facility initial operational date: [ ]

- Group registration is electing on-bill monetary credits (Y/N): [ ]

- If electing on-bill monetary credits, indicate the percentage (xx.xx%) of the net metering monthly credit to be allocated to host: [ ]

- Host meter’s utility rate class is Residential? (Y/N): [ ]

- Project” (Y/N): [ ]

- Host is an LMI customer? (Y/N): [ ]

- Host is an Affordable Housing Project? (Y/N): [ ]

---

Please continue to Sections (tabs) B, C, D, and E (if applicable).
### Section B. Member Information

- Member Information
- LMI Community Solar Project - LMI Designations
- On-bill Crediting Allocations

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<th>No.</th>
<th>Member Name</th>
<th>Utility Service Street Address</th>
<th>Town</th>
<th>Utility Account</th>
<th>Meter #</th>
<th>Historic Annual Load (kWh)</th>
<th>Projected Annual Load (kWh)</th>
<th>RES (Y/N) or AHP</th>
<th>LMI (Y/N)</th>
<th>% Monthly Net Metering Credit Allocation</th>
<th>Billing Address</th>
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</table>
### Section C. Group Summary

- **Auto-filled Page** *(protected)*

### Summary Information
- **Group Data**
- On-bill crediting, if applicable
- LMI Community Solar Project, if applicable

---

#### SUMMARY FOR ALL GROUP REGISTRATIONS

<table>
<thead>
<tr>
<th>Renewable Energy Source</th>
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<tbody>
<tr>
<td>Generation Capacity of Host’s Facility (kW)</td>
<td>-</td>
</tr>
<tr>
<td>Host Facility’s Actual or Projected Annual Output (kWh)</td>
<td>-</td>
</tr>
<tr>
<td>Host's Historic Annual Usage (kWh)</td>
<td>-</td>
</tr>
<tr>
<td>Host’s Projected Annual Usage (kWh)</td>
<td>-</td>
</tr>
<tr>
<td>Total Historic Annual Usage of All Group Members (excluding Host)</td>
<td>-</td>
</tr>
<tr>
<td>Total Projected Annual Usage of All Group Members (excluding Host)</td>
<td>-</td>
</tr>
<tr>
<td>Total Historic Usage of Group</td>
<td>-</td>
</tr>
<tr>
<td>Total Projected Usage of Group</td>
<td>-</td>
</tr>
</tbody>
</table>

The total annual usage of all group members (including the host) must be equal to, or exceed, the host facility’s actual or projected annual output.

---

#### SUMMARY FOR GROUPS ELECTING ON BILL CREDITING

<table>
<thead>
<tr>
<th>On-Bill Crediting: % Net Metering Credit Allocation Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>% Allocation to Host</td>
</tr>
<tr>
<td>% Allocation to All Members</td>
</tr>
<tr>
<td>Total Group % Allocation</td>
</tr>
</tbody>
</table>

If participating in on-bill crediting, the total group % allocation must equal 100.00%.

---

#### SUMMARY FOR LOW-MODERATE INCOME COMMUNITY SOLAR PROJECT GROUPS

<table>
<thead>
<tr>
<th>Total Number of Residential End Users</th>
<th>0</th>
</tr>
</thead>
<tbody>
<tr>
<td>% of Load Attributable to Residential and Affordable Housing End Users</td>
<td>0.00%</td>
</tr>
<tr>
<td>% of Residential End Users defined as Low-Moderate Income</td>
<td>0.00%</td>
</tr>
<tr>
<td>% of Monthly Net Metering Credits Allocated to Low-Moderate Income End Users</td>
<td>0.00%</td>
</tr>
</tbody>
</table>

**Summary of Additional Requirements for LMI Community Solar Project Group Registrations**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Check</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total number of residential end users must be greater than or equal to 5</td>
<td>☐</td>
</tr>
<tr>
<td>Percentage of load attributable to residential end users and affordable housing projects, if any, must be greater than or equal to 85.00%</td>
<td>☐</td>
</tr>
<tr>
<td>Percentage of residential end users defined as low-moderate income must be greater than or equal to 50%</td>
<td>☐</td>
</tr>
<tr>
<td>Percentage of net metering credits allocated to low-moderate income residential end users or affordable housing projects must be greater than or equal to 12.00%</td>
<td>☐</td>
</tr>
</tbody>
</table>
Sections D and E. Certifications and Signatures

Section D: Group Certifications for All Registrations
- Additional certifications for on-bill crediting

Section E: Additional Certifications for LMI Community Solar Project

---

**SECTION D. GROUP CERTIFICATIONS**

All group registrations must complete this section.

By signing below, I certify to the following (please check each box):
- [ ] I have provided a copy of this application, with any and all attachments, to the distribution utility.
- [ ] Each group member and the host are a customer of the same distribution utility.
- [ ] Each group member and the host have signed an agreement that complies with Puc 909.05 (unless the host and group member are the same person or entity and an agreement therefore is not required).
- [ ] The total historic or projected annual load of the members together with the host exceeds the projected annual output of the host's facility.
- [ ] None of the group members is a customer generator.
- [ ] On or before April 1 of each year, beginning the year after the host received a registration number, the host shall provide to the Commission, with a copy to the distribution utility, an annual report containing the information defined in Puc 909.10, covering the immediately preceding calendar year.

Note: Hosts with residential systems with a maximum generation capacity not more than 13 kilowatts (kW) are not required to submit an annual group hold report, unless it is a low-moderate income community solar project.

If this group is NOT seeking on-bill monetary credits, I certify to the following (please check the boxes):
- [ ] Each member is a member of more than one group, the portions of that member's load which are allocated to each host, when combined, shall not exceed that member's total load.

If this group is seeking to receive on-bill monetary credits (please check the boxes):
- [ ] The specified percentage allocations for the host and all members total 100% and each group member's percentage allocation is greater than zero; and
- [ ] No member is also a member of any other group at the time of registration.

I have the authority to sign and submit this application on behalf of the host. By signing, I certify that the contents of the application are true, accurate, and complete, to the best of my knowledge and belief.

---

**SECTION E. ADDITIONAL CERTIFICATIONS FOR LOW-MODERATE INCOME COMMUNITY SOLAR PROJECTS**

Only groups that are Low-Moderate Income Community Solar Projects must complete this section.

By signing below, I certify to the following (please check each box):
- [ ] The group meets the requirements of Puc 909.13(a);
- [ ] All member agreements meet the requirements of Puc 909.05(e);
- [ ] The specified on-bill credit percentage allocations meet the requirements of Puc 909.12(c) through (e) and Puc 909.13(b);
- [ ] No member is also a member of any other group at the time of registration;
- [ ] Documentation is attached describing the host's income verification procedure for the group;
- [ ] Documentation is attached demonstrating that each affordable housing project member qualifies as such under Puc 902.01, or there are no affordable housing project members; and
- [ ] Documentation is attached for each affordable housing project member describing the direct, quantifiable benefits to be provided to the tenants or residents of that project pursuant to Puc 909.13(c), or there are no affordable housing project members.
- [ ] No agreement in any way prohibits or restricts the members of the low-moderate income community solar project group who are residential end-use customers with household income at or below 300 percent of the federal poverty guidelines from leaving the group, consistent with Puc 909.13(d)(8).

I have the authority to sign and submit this application on behalf of the host. By signing, I certify that the contents of the application are true, accurate, and complete, to the best of my knowledge and belief.

---

<table>
<thead>
<tr>
<th>Date</th>
<th>Applicant Printed Name</th>
<th>Applicant Signature</th>
</tr>
</thead>
</table>

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November 18, 2020

NEW HAMPSHIRE PUBLIC UTILITIES COMMISSION
Group Net Metering – Reporting Requirements

- **Annual Reporting**
  - Host is required to file an annual report with the PUC and Utility
    - Annual report is not required for residential systems less than 15 kW in capacity (size)

- **Report includes:**
  - Host Information
  - Host System Generation
  - Net Generation to Grid (i.e., excess generation)
  - Host Load
  - Actual Load of Each Member
  - Total Load of Members
  - Additional required information for LMI Community Solar Projects

- **Report Due:**
  - No later than April 1st of each year
Thank you

Karen Cramton
Director, Sustainable Energy Division

Karen.Cramton@puc.nh.gov

603-271-2431

Useful Links

- **RSA 362-A:9**: NH statute on net metering
- **Puc 900 Administrative Rules**: Rules governing net metering and group net metering
  - Group Net Metering: See section 909
  - Net Metering Tariffs: See section 903.02
- **PUC Group Net Metering webpage**
  - Form PUC 909.09 – Group Net Metering Registration Form
  - Annual Report Form
- **Utility tariffs available at**: Eversource, Liberty, Unitil (Residential), Unitil (Commercial)
- **PUC page on historical residential electricity prices, default service rates, & information on PPA escalation rates**
QUESTIONS & ANSWERS