Today's agenda

- 2:00 2:05 Welcome, introductions, and meeting logistics
- 2:05 2:40 Overview of progress to date and areas of agreement Governor's Energy Office
- 2:40 3:00 Overview of the Inflation Reduction Act and implications for distributed generation Solar Energy Industries Association
- 3:00 3:05 Break
- 3:05 4:45 Successor program modeling choices and feedback Synapse Energy Economics and Sustainable Energy Advantage
- 4:45 4:55 Public comment
- 4:55 5:00 Next steps and adjourn

Where we are in the process



P.L. 2021 ch. 390 (LD 936)

- Convene stakeholder group
- Design DG successor program accounting for policy objectives



Interim report

- DG has a role in state policy goals
- Successor program will optimize net benefits and ratepayer costs
- Benefits include avoided costs
- Work in 2022 to develop successor program with these objectives



Technical analysis

- For multiple possible DG program designs:
- Quantify benefits of DG - including exclusive to DG
- Quantify costs of DG
- Quantify rate impacts (positive and negative) of DG



Issuefocused work sessions

- Obtain broader input on specific policy aspects
- Incorporate input into successor program design



Straw proposal

- Using information and feedback to date, craft straw proposal for successor program
- Contracts, competition, tariff, project size, federal tax credit, locations, etc.
- Opportunity for public feedback



Final report

- Propose successor program design that meets agreedupon criteria
- Incorporate public feedback received through straw proposal comments

An Act To Amend State Laws Relating to Net Energy Billing and the Procurement of Distributed Generation P.L. 2021 ch. 390

- Directs the GEO to convene the Distributed Generation Stakeholder Group with specified membership
 - Objectives: "consider various distributed generation project programs to be implemented between 2024 and 2028 and the need for improved grid planning"
- Directs submission of an interim report to the Legislature
 - Delivered December 31, 2021
 - Established areas of consensus and outline of process for 2022
- Directs submission of a final report to the Legislature by January 2023
 - Recommended design for net energy billing successor program
 - Evaluation of existing net energy billing program





An Act To Amend State Laws Relating to Net Energy Billing and the Procurement of Distributed Generation

<u>P.L. 2021 ch. 390</u> section 4 excerpts

- GEO, in coordination with the PUC, shall convene a stakeholder group to consider various distributed generation project programs to be implemented between 2024 and 2028 and the need for improved grid planning.
- The stakeholder group shall assist in the development and production of the interim and final reports.
- For the purposes of this section, "distributed generation project" means a renewable energy project with a nameplate capacity of no more than 5 megawatts that has identified residential, commercial and institutional customers and includes, but is not limited to, net energy billing arrangement projects.

GOVERNOR'S Energy Office

An Act To Amend State Laws Relating to Net Energy Billing and the Procurement of Distributed Generation

<u>P.L. 2021 ch. 390</u> sections 5 and 6 excerpts

- The optimum total amount of distributed generation for the program period calculated using 7% of total load, net of NEB incremental to 750 MW goal
- How to cost-effectively incentivize project diversity by:
 - Considering energy storage
 - Limit impacts by being located on previously developed or impacted land, including areas covered by impervious surfaces, reclaimed gravel pits, capped landfills or brownfield sites;
 - Serve load within a low-income to moderate-income community
 - Optimize grid performance or serve a nonwires alternative function
 - Directly serve customer load
- How information from a holistic grid planning process can be included to improve a distributed generation project program
- Support the successful development of distributed generation by small companies based in the State

GOVERNOR'S Energy Office



An Act To Amend State Laws Relating to Net Energy Billing and the Procurement of Distributed Generation

P.L. 2021 ch. 390 sections 5 and 6 excerpts continued

- Identification of the recommended optimum total amount of distributed generation for the program period represented as a percentage of total load;
- An estimation of the net ratepayer impacts, including all on-bill benefits and costs, expected as a result of the development of distributed generation resources... accounting for projects that have reached or are expected to reach full maturity and load growth trends;
- Identification of a method or methods that can be used to balance the impact of the development of distributed generation resources with load growth to mitigate potential electricity rate increases;
- Updates to the finance enabling policies in the "Maine Distributed Solar Valuation Study" prepared for the Public Utilities Commission by Clean Power Research, including the costs and benefits of on-bill and off-bill financing;
- Consideration of the feasibility of implementing innovations to increase the net ratepayer value of distributed generation, including, but not limited to, time-differentiated rates and 2-way energy flows;
- Consideration of the use of declining bill credit rates;
- Consideration of the feasibility of standardizing the classification of distributed generation as load reducers, regardless of whether the bill credit is in the form of kilowatt-hour credits or monetary credits.

GOVERNOR'S Energy Office

Stakeholder Group Interim Report

Areas of consensus

- Distributed generation resources will play an important role in the state's achievement of greenhouse gas reduction requirements, renewable energy requirements, and goals for continued growth of the clean energy sector.
- Distributed generation resources have the potential to produce benefits to the electric system, as well as to the state, through avoided costs as well as resilience, environmental, public health, and economic benefits. The extent to which these benefits should be incorporated as objectives of a successor program requires additional analysis and discussion.
- Any program to promote distributed generation resources should be designed in a manner that optimizes net benefits and ratepayer cost-effectiveness and considers resources developed through existing net energy billing programs – as well as considers input from a broad range of stakeholders, and specifically accounts for barriers faced by low- and moderate-income, fixed-income, and historically marginalized communities.
- The Stakeholder Group intends to continue working in 2022 to refine the approach for optimizing cost-effectiveness and the manner by which a successor program should pursue these objectives.

GOVERNOR'S Energy Office

Interim Report of the Distributed Generation Stakeholder Group. December 31, 2021.

Technical analysis

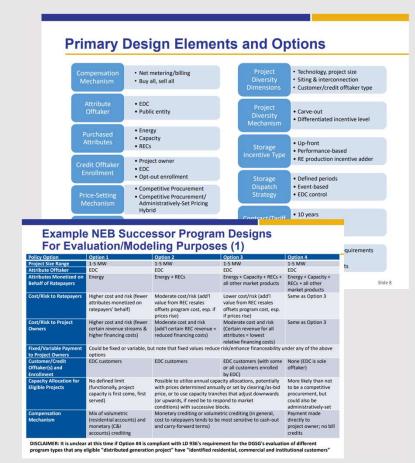
BCA Modeling Assumptions Rate impact modeling assumptions Utilities . We will model CMP & Versant together, to provide average results Utilities · Results will be generally applicable to each utility · We will model CMP & Versant together, to provide average results Study period · Results will be generally applicable to each utility DG to be installed during 2024-2028 . Study period to include 25 years (DG operating life) after 2028 Customer types We will model all customer types combined, to provide average re- Results will provide suff adjusted for Load forecast BCA relative to rate impact analysis ISO-NE CELT Report? Synapse load forecast for Electricity rate forecast · Start with current rates · Generation rates increa **Benefit-Cost Analysis Rate Impact Analysis** · Transmission, distribution To identify which distributed energy To identify how DERs will affect resources (DERs) utilities should invest in **Purpose** rates, in order to assess customer re Enarmy Francomics & Systainable Energy Av or otherwise support on behalf of their equity concerns Questions What are the future costs and benefits of Will customer rates increase or decrease, and by how much? Answered Cumulative costs (present value \$) • Rate impacts (c/kWh. %) Results · Cumulative benefits (present value \$) · Bill impacts (\$/month, %)

• Cumulative net benefits (present value \$)

· Benefit-cost ratios (present value \$)

Synapse Energy Economics & Sustainable Energy Advantage

Presented



Illustrative slides from recent meetings. These and all other materials available here: https://www.maine.gov/energy/studies-reports-working-groups/current-studies-working-groups/dg-stakeholder-group

· Participation rates (#, %)

Issue-focused work sessions

Land use

While attendees are welcome to share their own feedback, broad discussion themes are expected to include:

- What priorities should the future distributed generation program incorporate with regard to land use?
- What creative mechanisms could be used to encourage siting projects on preferred types of land?

Session will include presentations, a panel, and discussion breakout groups. Feedback will be incorporated into the successor program straw proposal.

Wednesday, October 19 - 9 a.m. - 12 p.m. Zoom registration will be available here.

Equity and access

While attendees are welcome to share their own feedback, broad discussion themes are expected to

- How should the future distributed generation program ensure benefits are accessible to everyone?
- How should the future distributed generation program ensure costs are distributed equitably? How should the future distributed generation program contribute to lowering the disproportionate energy burden faced by lowand moderate-income households?

Session will include presentations, a panel, and discussion breakout groups. Feedback will be incorporated into the successor program straw proposal.

Tuesday, October 18 - 9 a.m. - 12 p.m. Zoom régistration will be available here.