

Distributed Generation in Maine

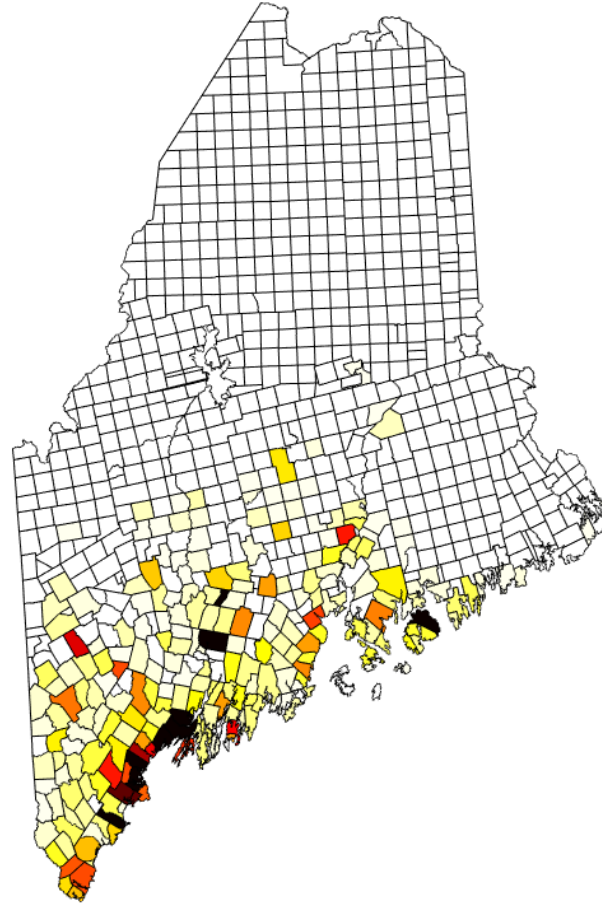
ISO Distributed Generation Forecast Working Group

December 5 2019

Denis Bergeron Maine PUC

Overview

- Maine's Net Energy Billing rule
- DG incentives in Maine
- Forecast



Net Energy Billing (NEB) Rule - MPUC Chapter 313

- Modified rule required MPUC review of NEB after MW subject to NEB \geq 3% of utility peak demand.
- Commission finalized a modified NEB rule in March 2017
 - Reduced amount of distribution related component of NEB – percent allowed decreased each year.
 - Grandfathered the existing NEB rate for 15 years
- Maine’s 2018 – 2019 Legislative session “An Act to Promote Solar Energy Projects and Distributed Generation Resources in Maine” L.D. 1711
 - Restored residential net energy billing.
 - Added Commercial and Institutional net energy billing.
 - Expanded the size eligibility of systems that can net energy bill from 660 kW up to 5 MW.

Incentives

- Maine’s “Act to Promote Solar Energy Projects and Distributed Generation Resources in Maine” L.D. 1711
 - Requires the MPUC to procure 125 MW of the output of DG resources associated with commercial or institutional customer accounts through competitive RFPs by July 1, 2024.
 - Requires the MPUC to procure 250 MW of the output of shared DG resources through competitive RFPs by July 1, 2024.

Forecasts

- LD 1711 imposes Maine's first statutory MW "targets".
- Prior Maine DG forecasts have been based on installation trends from the net metering program.
- Achievement of the statutory directive increase DG penetration in Maine by nearly 400% (503/128) by 2029.

Growth in Installations

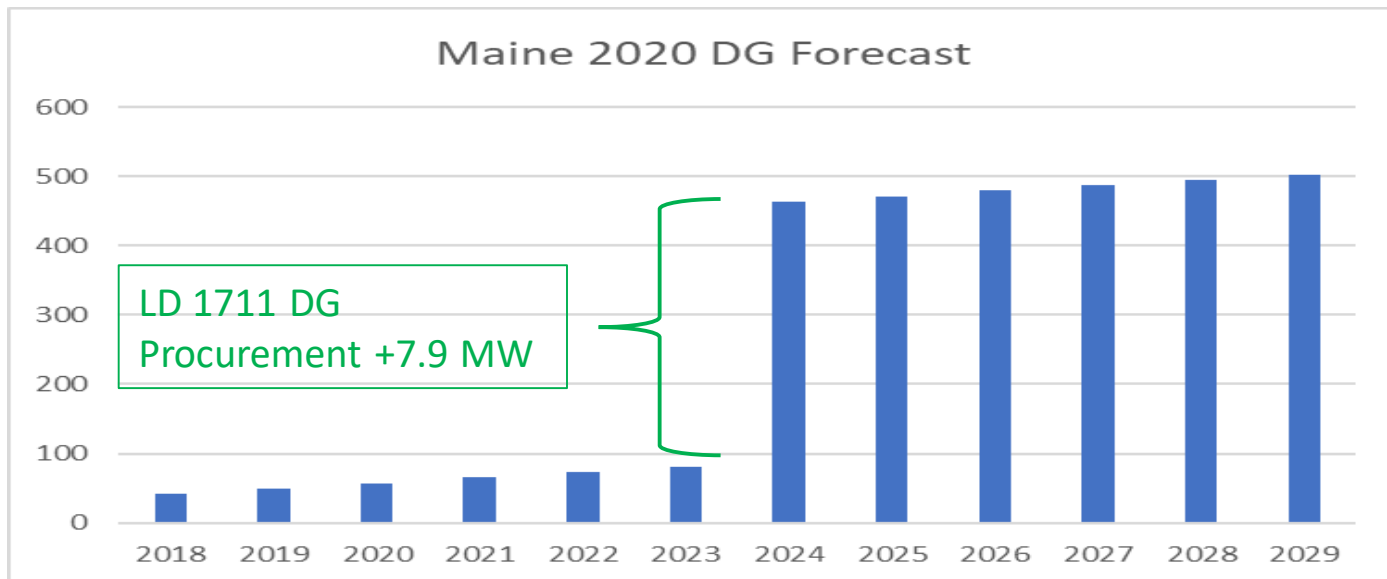
Final 2019 DGFWD Forecast Inputs

Pre-discounted nameplate values

State	Pre-discount Annual Total MW (AC Nameplate Rating)												Totals	
	Thru 2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		
ME	41.4	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	128.3

Impact of “Act to Promote Solar Energy Projects and Distributed Generation Resources in Maine” L.D. 1711 on Maine’s 2020 DG Forecast

State	Pre-discount Annual Total MW (AC Nameplate Rating)												Totals
	Thru 2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	
ME	41.4	7.9	7.9	7.9	7.9	7.9	382.9	7.9	7.9	7.9	7.9	7.9	503.3



Questions?