

# Distributed Generation in Maine - 2021 Forecast

ISO Distributed Generation Forecast Working Group

Denis Bergeron Maine PUC

# Maine's DG Forecast

- Maine's "Act to Promote Solar Energy Projects and Distributed Generation Resources in Maine" L.D. 1711 has two components;
  - A requirement for the PUC to procure Distributed generation.
  - Significant modifications to Maine's Net Energy Billing (NEB) rules

# Maine DG Procurement

- Maine’s “Act to Promote Solar Energy Projects and Distributed Generation Resources in Maine” L.D. 1711
  - Requires MPUC to procure 125 MW of DG resources from C&I accounts through 5 competitive RFPs by July 1, 2024.
  - Requires MPUC to procure 250 MW of shared DG resources through 5 competitive RFPs by July 1, 2024.
  - MPUC determined initial bids were not competitive and rejected them:
    - Project attrition of 67%
    - Bid prices did not appear cost based
    - Effect of initial bid price on subsequent bid blocks
  - The program is on hold. MPUC has reported to legislature and is awaiting guidance. Absent guidance, MPUC must reissue bids in May.

# Growth in Installations

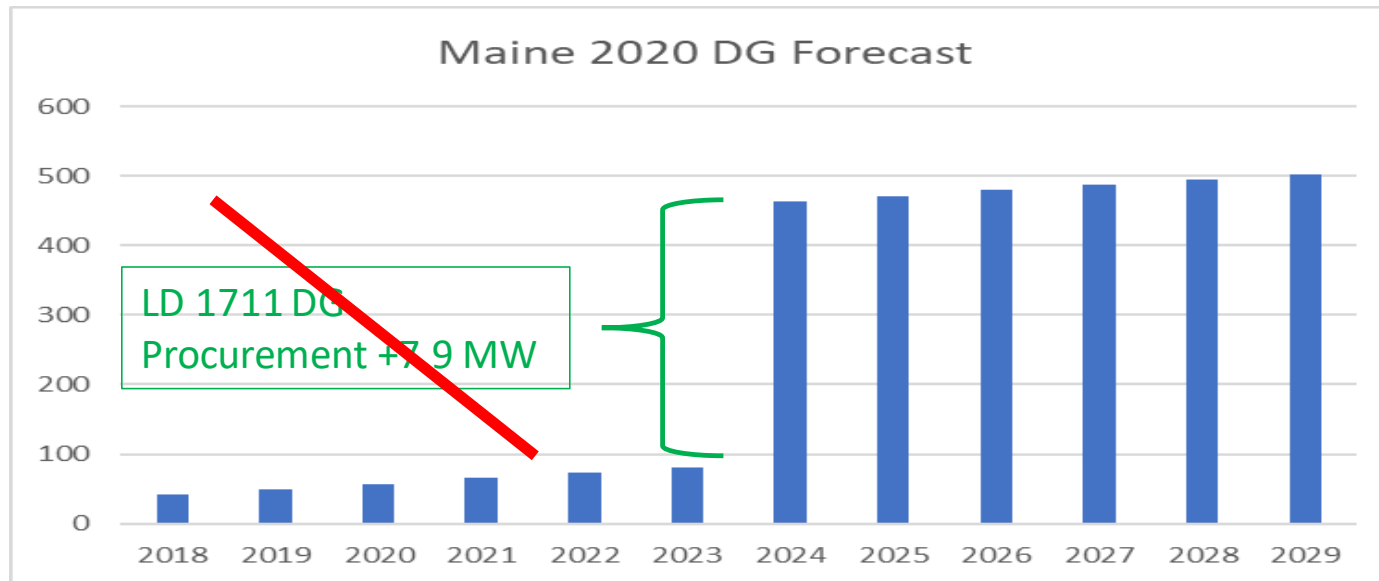
Final 2019 DGFWD Forecast Inputs

*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

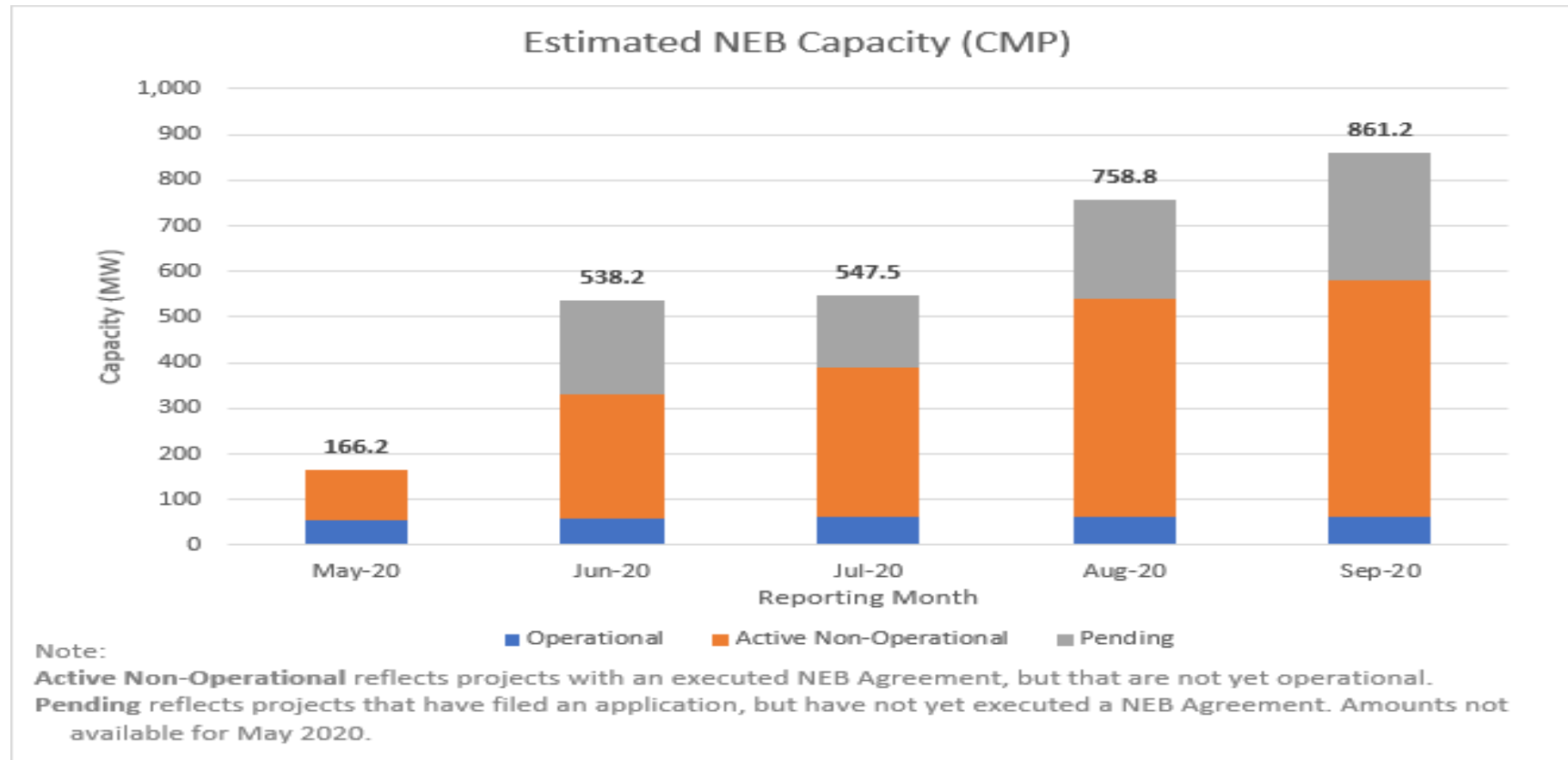
State	Pre-discount Annual Total MW (AC Nameplate Rating)												Totals
	Thru 2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	
ME	41.4	7.9	7.9	7.9	7.9	7.9	382.9	7.9	7.9	7.9	7.9	7.9	503.3



# Maine Net Energy Billing

- “Act to Promote Solar Energy Projects and Distributed Generation Resources in Maine” L.D. 1711
  - Also made changes to Maine’s Net Energy Billing rules
    - 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.
  - Required MPUC to evaluate net energy billing when the amount of capacity in net energy billing reaches 10% of total load of utilities in the State.
  - As of September 2020, both of Maine’s T&D utilities exceeded the 10% threshold of NEB arrangements

# Net Energy Billing Arrangements - CMP



# Interconnection Queues

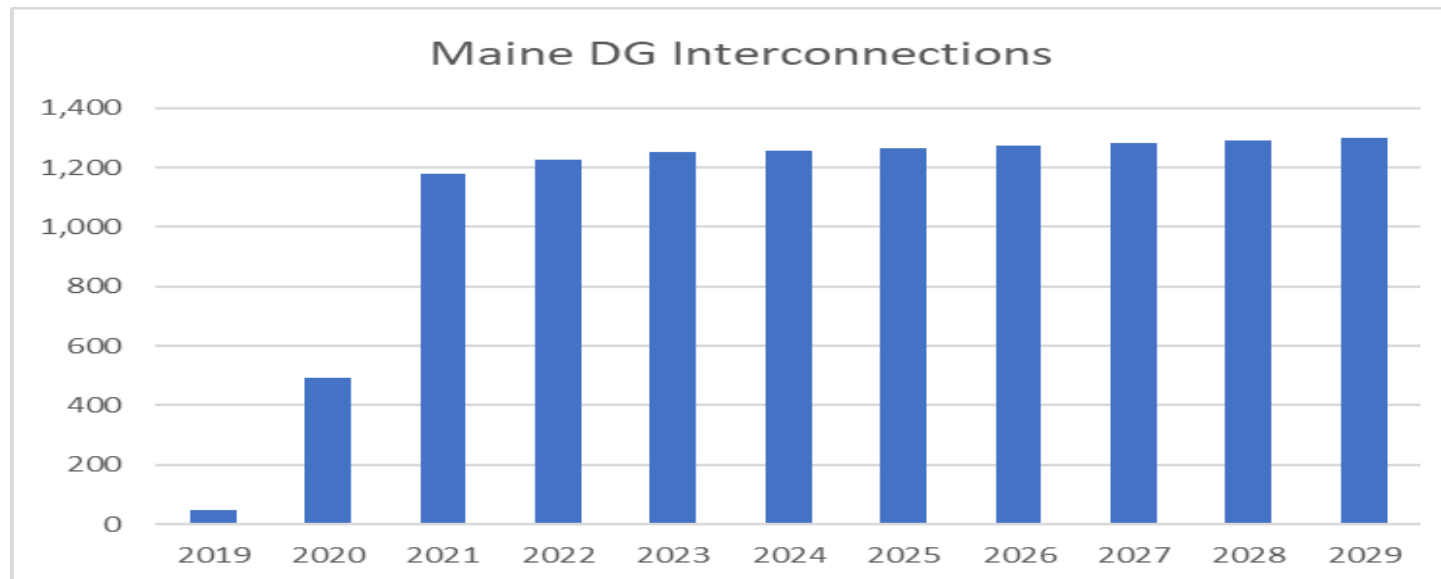
	2020	2021	2022	2023
CMP	346	389	13.3	
Versant	90.3	285.8	27	17.5
	436.3	674.8	40.3	17.5

# Maine 2021 DG Forecast – NEB Only

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	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 from Net Energy Billing

Pre-discount Annual Total MW (AC Nameplate Rating) Baseline + NEB												
Thru 2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	
41	49	494	1,176	1,224	1,250	1,258	1,266	1,274	1,281	1,289	1,297	





# 2021 Maine DG Forecast (NEB + Procurement)

Maine	Pre-discount Annual Total MW (AC Nameplate Rating) (Baseline + NEB + Procurement)											
	Thru 2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
ME	41	49	494	1,176	1,224	1,250	1,641	1,649	1,656	1,664	1,672	1,672

Maine DG Forecast (Baseline + NEB + Procurement)

