

Overview of Maine solar energy policy and industry landscape

Presentation to Agricultural Solar Stakeholder Group *June 3, 2021*



CLIMATE COUNCIL GOALS



12.01.20
Climate Action Plan
Delivered



ACHIEVE STATE CARBON NEUTRALITY BY

2045

REDUCE MAINE'S GREENHOUSE GAS EMISSIONS
BY TARGETS OUTLINED IN STATE LAW

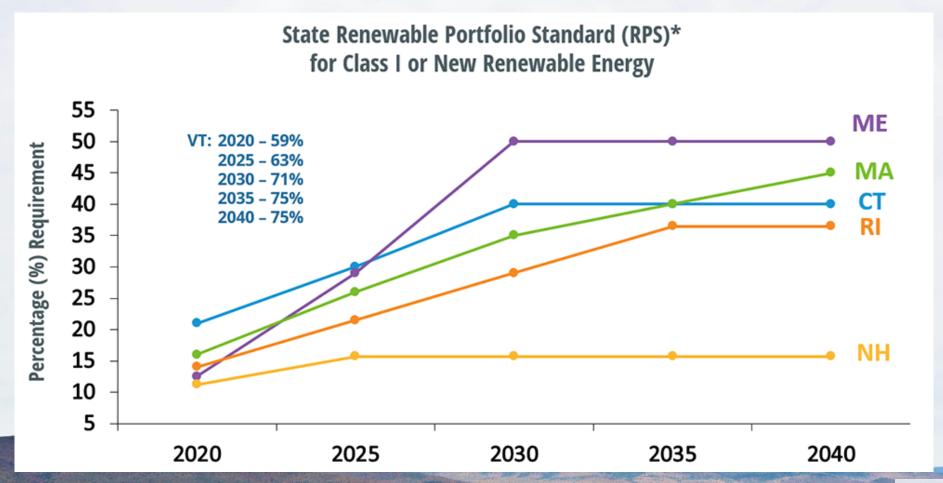
45% BELOW 1990 LEVELS BY 2030

80% BELOW 1990 LEVELS BY 2050



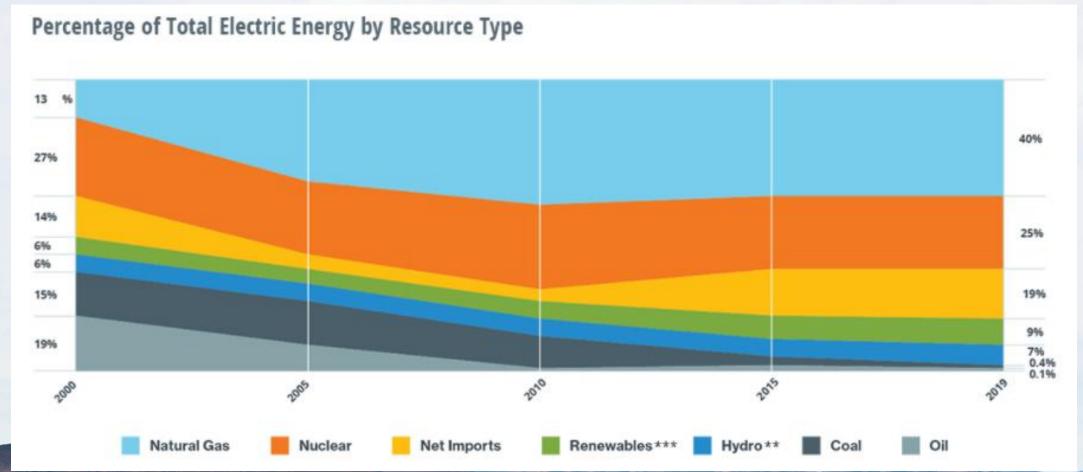
ENSURE MAINE PEOPLE, INDUSTRIES, AND COMMUNITIES ARE RESILIENT TO THE IMPACTS OF CLIMATE CHANGE.

Maine and the other New England states have ambitious renewable energy goals





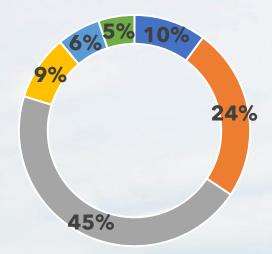
Maine participates in a regional electricity market



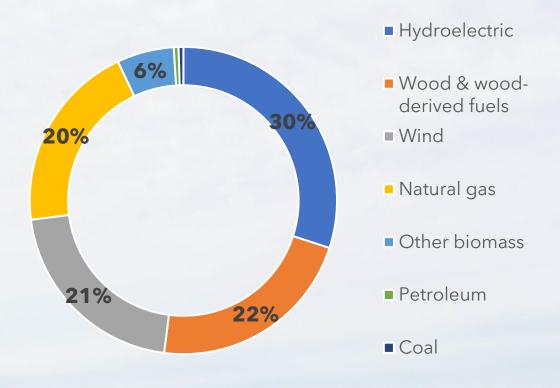


Share of Electricity Consumption (Retail Sales), 2017

- Maine
- Connecticut
- Massachusetts New Hampshire
- Rhode Island
- Vermont

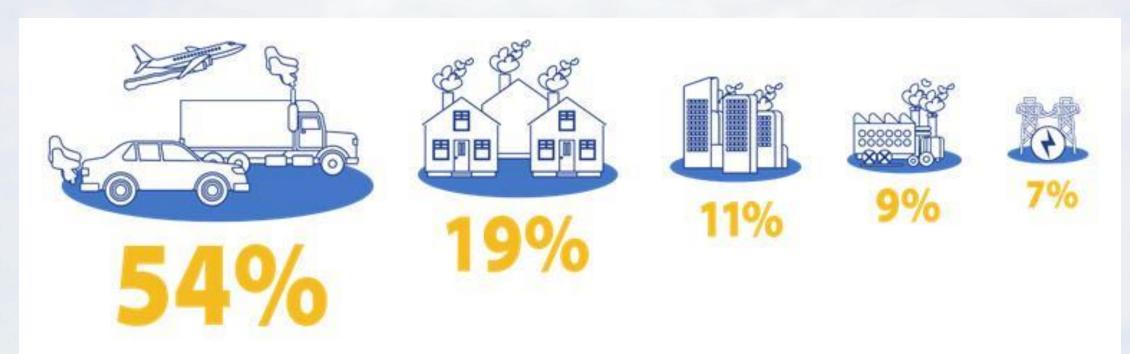


Maine Electricity Generation, 2017





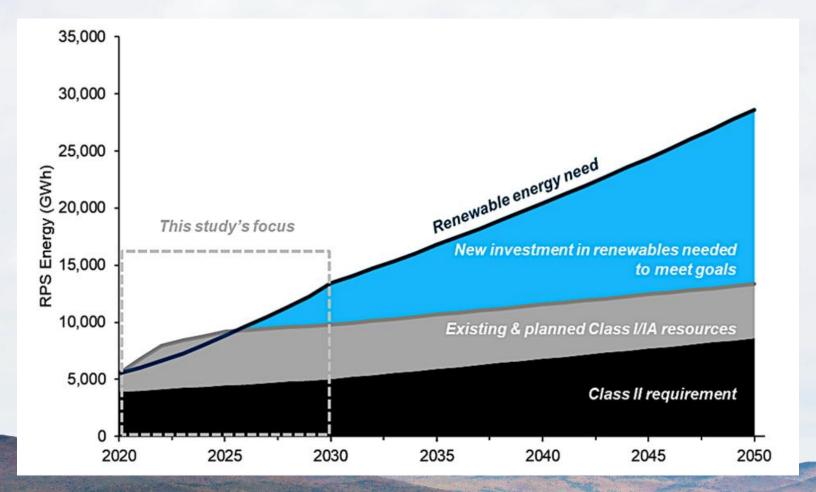
Maine Greenhouse Gas Emissions by Sector



TRANSPORTATION . RESIDENTIAL . COMMERCIAL . INDUSTRIAL . ELECTRIC POWER



Additional renewable capacity will be needed to meet Maine's goals



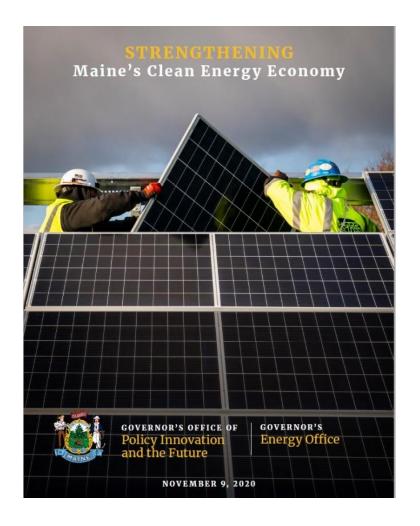


Grow Maine's Clean Energy Economy and Good Jobs Strengthening Maine's Clean Energy Economy

Governor Mills' goal: 30,000 clean energy jobs by 2030

What is the clean energy economy?

"Economic development, operations and supply chains in renewable energy and energy efficiency, that generate economic benefits, create high-quality jobs, and fight climate change."





Solar-related policy summary

80% of Maine's electricity must come from renewable resources by 2030, with a goal of 100% by 2050.

Public Law 2019, Chapter 477 (An Act To Reform Maine's Renewable Portfolio Standard)

Procurements for renewable resources to supply 14% of Maine's electricity needs (1.715 million MWh).

Public Law 2019, Chapter 477 (An Act To Reform Maine's Renewable Portfolio Standard)

Targeted procurements for up to 375 MW of distributed generation.

Public Law 2019, Chapter 478 (An Act To Promote Solar Energy Projects and Distributed Generation Resources in Maine)

Net energy billing for projects under 5 MW, including shared facilities and C&I tariff program.

Public Law 2019, Chapter 478 (An Act To Promote Solar Energy Projects and Distributed Generation Resources in Maine)



Renewable Portfolio Standard procurements

Tranche 1 Procurement

- Completed in 2020
- 17 renewable projects, ~9.5% of electric load, competitive prices
 - Includes 14 solar projects totaling 482.5 MW
- Reduce GHG emissions by approximately 500,000 tons per year, create hundreds of jobs and contribute millions of dollars to Maine's economy

Tranche 2 Procurement

- Issued January 15, 2021, results expected this summer
- Roughly 4.5% of State electric load



Distributed Generation procurement

- Procurement created in 2019
- C&I and community shared projects for a total of 375 MW
- Declared first round unsuccessful last August
- Included siting considerations
- Legislature actively reviewing



Current Net Energy Billing Program

- Renewable generators less than 5 MW are eligible
- Participants can offset electricity bills with credits from renewable generators
- Non-residential customers can choose between energy (kWh) credits or dollar credits (tariff)
 - kWh credits are 1-to-1
 - Dollar credit rate set annually by MPUC
- Net energy billing customers can use their own generator or share in a project with other customers
- Legislature reviewing program



Solar - Looking Ahead

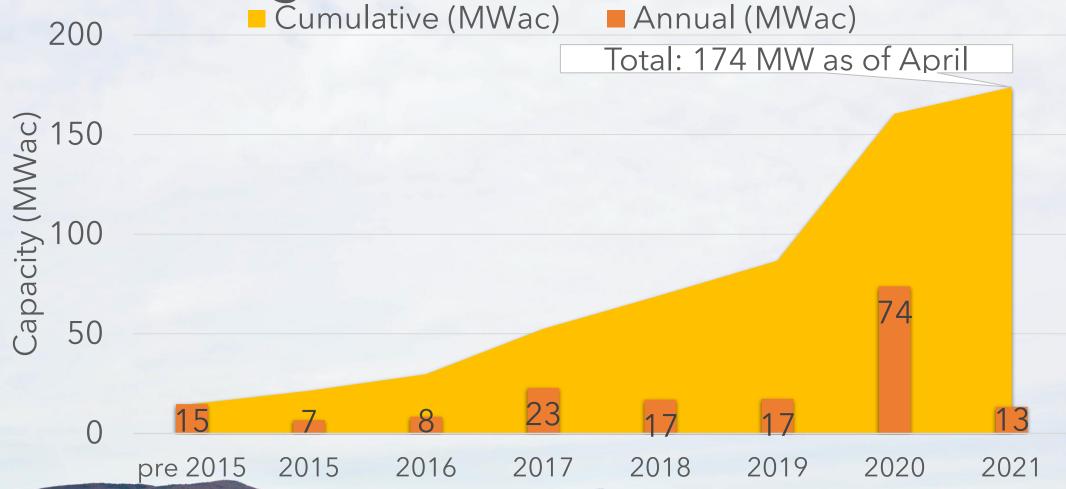
Legislature reviewing Net Energy Billing

RPS procurement tranche 2 - results summer/fall 2021

Periodic PUC Procurements



Solar generation installed in Maine Cumulative (MWac) Annual (MWac)





Solar capacity in interconnection queues, May 2021



