

Maine Climate Council Meeting

Council Co-Chairs:
Commissioner Melanie Loyzim &
Director Hannah Pingree



GOVERNOR'S OFFICE OF
Policy Innovation
and the Future



MAINE DEPARTMENT OF
Environmental Protection

December 1, 2023

Agenda

1. Welcome and Introductions
2. *Maine Won't Wait* Progress Report
3. Break
4. Panel Discussions
 - Implementing the Climate Plan
 - Approaching Challenges
5. How we'll work together



Introductions





Tracking Progress Toward Climate Action

Maine Won't Wait Annual Progress
Report

CLIMATE COUNCIL GOALS



12.01.24

Updated Climate
Action Plan Due



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.



49%



21%



12%



12%



5%

TRANSPORTATION • RESIDENTIAL • COMMERCIAL • INDUSTRIAL • ELECTRIC POWER

Data source: Maine Department of Environmental Protection 9th Biennial Greenhouse Gas Emissions Report.
International bunker fuels (1%) are not depicted in the graphic above.

In Maine, most carbon dioxide emissions from fossil fuel combustion come from transportation, followed by residential, commercial and industrial sources.



25%
Below 1990
Greenhouse Gas
Emissions

Updated Figure
for 2019

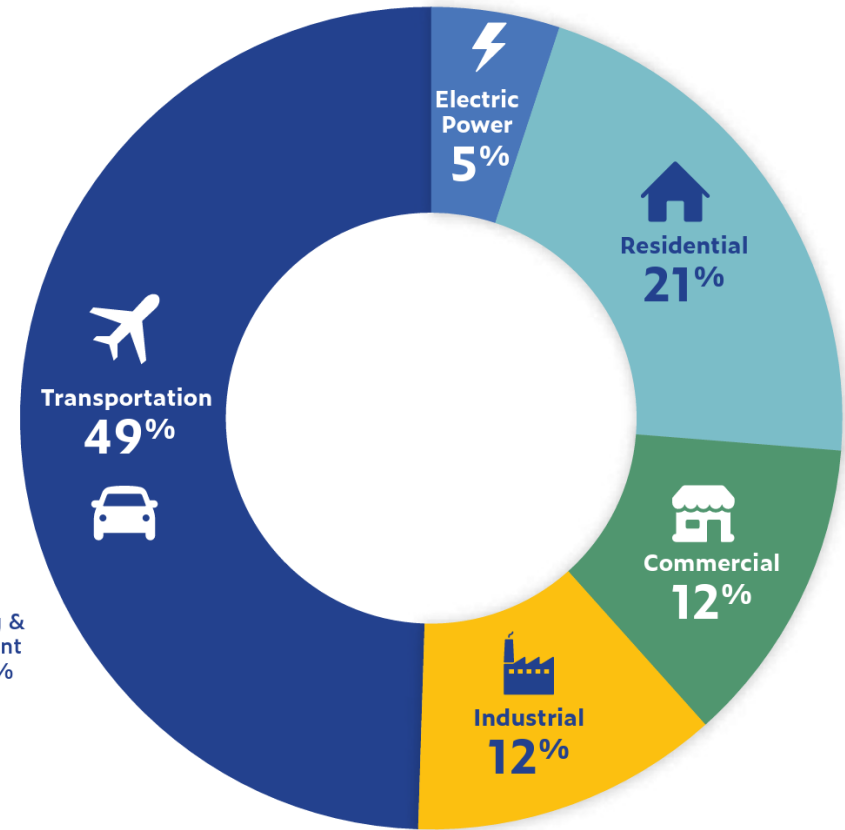
75%
of the way to
Carbon Neutral

Goal: 100%
Carbon Neutral
by 2045

(75% of Maine GHG emissions
absorbed by Maine ecosystems)



Maine Carbon Dioxide Emissions from
Fossil Fuel Combustion by Sector (2019)



International shipping &
aviation fuels account
for an additional 1%
of emissions

Data source:
Maine Department of Environmental Protection

Maine's 4 Climate Action Plan Goals



1. Reduce Maine's greenhouse gas emissions
2. Make Maine more resilient to the impacts of climate change
3. Foster economic opportunity and prosperity
4. Advance equity through Maine's response

Maine's 8 Climate Action Strategies



Embrace the Future of Transportation in Maine



Modernize Maine's Buildings



Reduce Carbon Emissions in the Energy and Industrial Sectors through Clean Energy Innovation



Grow Maine's Clean Energy Economy and Good Jobs



Protect Maine's Environment and Working Lands and Waters, Increase Carbon Sequestration



Build Healthy and Resilient Communities



Invest in Climate-Ready Infrastructure



Engage People and Communities in Climate Impacts and Program Opportunities



Tracking the Progress of *Maine Won't Wait*

This dashboard tracks numerical targets included in *Maine Won't Wait* to inform the public and help evaluate whether evidence-based adjustments, enhancements or replacements to policies are needed in pursuit of the plan's climate objectives. Over time, the dashboard will expand to include other key *Maine Won't Wait* metrics as updated data becomes available, new programs are established, and state and federal climate investments are realized.



12,369
Electric & Plug-in Hybrid Vehicles

Goal: 219,000 by 2030



459
Public EV Charging Stations

Up from 235 in 2019



115,442
New Heat Pumps since 2019

New Goal: 275,000 by 2027



12,705
Homes Weatherized since 2019

Goal: 17,500 by 2025



51%
Clean Energy Use

Goal: 80% by 2030



15,019
Clean Energy Jobs

Goal: 30,000 by 2030



22.2%
of Maine Land Conserved

Goal: 30% by 2030



174
Communities in Resilience Partnership



25%
Below 1990 Greenhouse Gas Emissions

Updated Figure for 2019



75%
of the way to Carbon Neutral

Goal: 100% Carbon Neutral by 2045

(75% of Maine GHG emissions absorbed by Maine ecosystems)



Visit our online dashboard to learn more:
maine.gov/climateplan/dashboard

Equity Update and Metrics

Equity metrics help to assess **where** climate investments are happening and **who** is benefitting

7,882

**New Low income
heat pumps since 2019**

Goal: Install at least 15,000 new heat pumps in income-eligible households by 2025.

41

High Social Vulnerability Index (SVI) communities in Community Resilience Partnership

13%

Average energy burden among low income households (Compared to 3% overall)

source: DOE LEAD 2020

2,943

New low-income homes weatherized since 2019

75%

Infrastructure Adaptation Fund invested in medium or high Social Vulnerability Index (SVI) towns

9%

EV Rebates to low and moderate income households (As a percentage of total rebates given in 2023)

8%

of low income homes with no internet service (Compared to 2% overall)

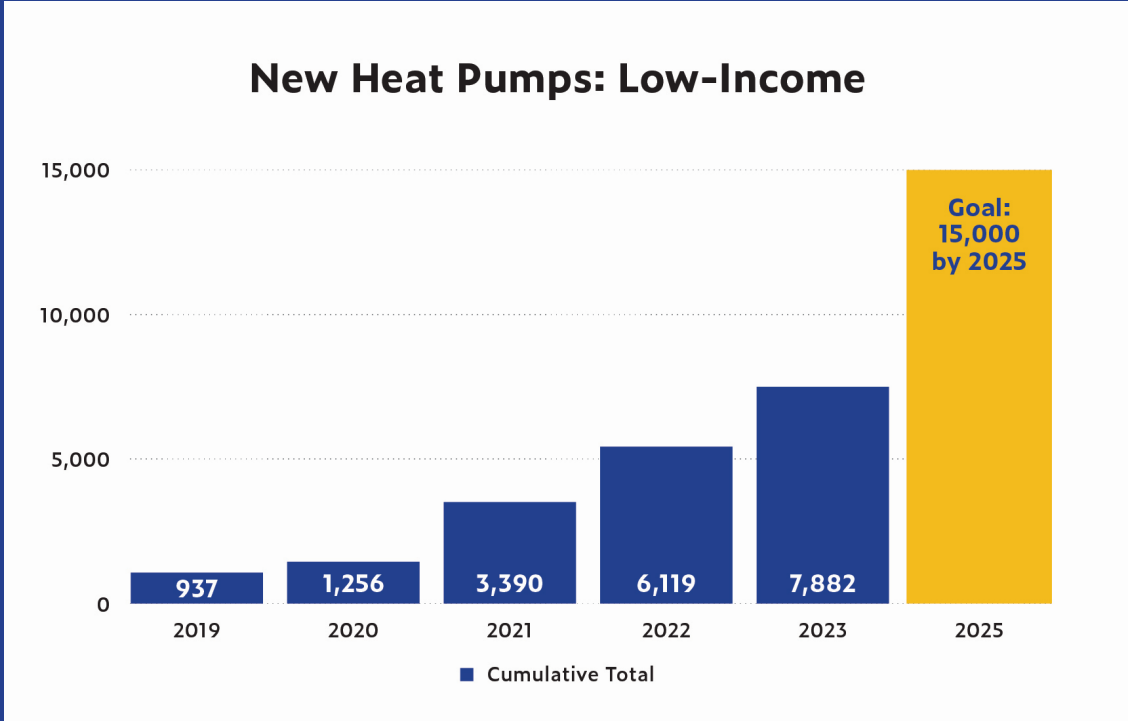
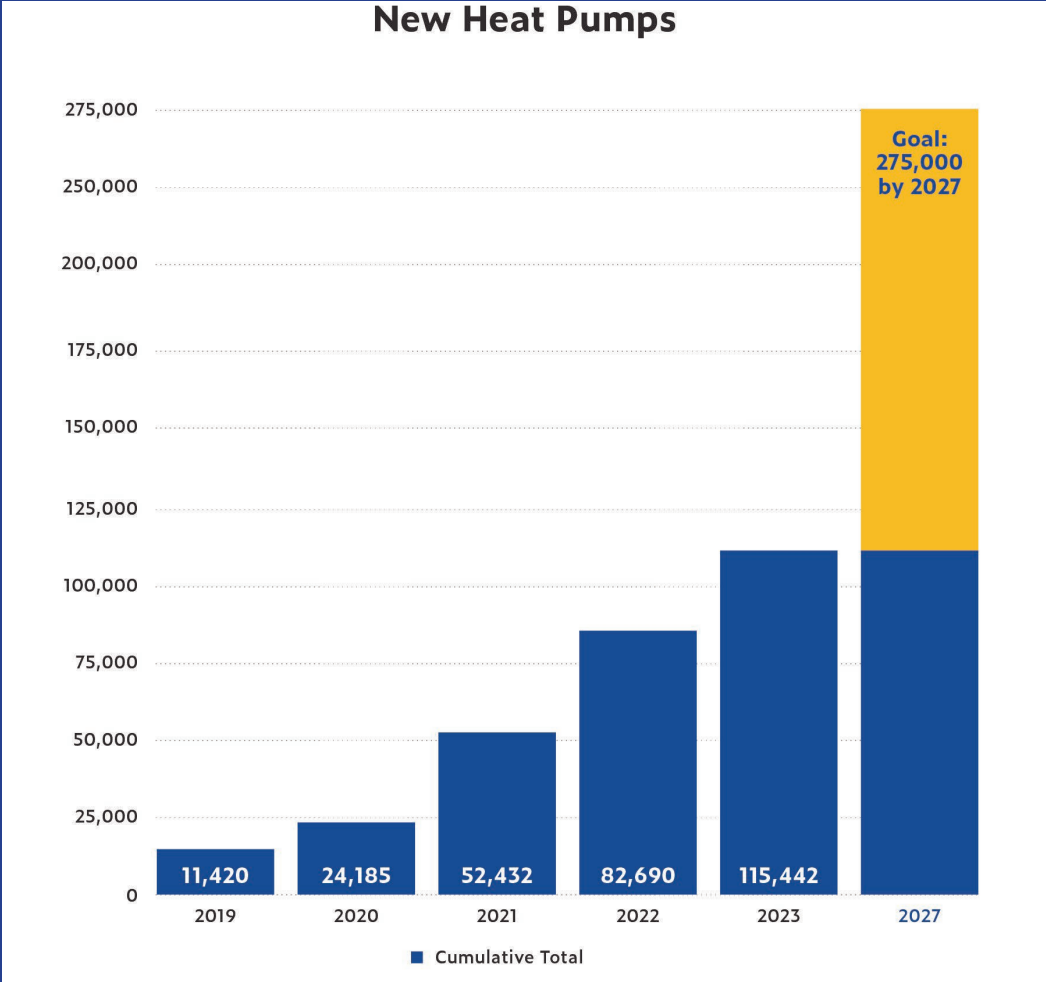
Source: Maine Connectivity Authority

Maine Leads the Nation in Heat Pump Deployment:



- Governor's 100,000 goal by 2025 met two years early
- New 175,000 additional heat pump goal set for 2027 - doubling the pace of progress (322,000 installed by 2027)
- Maine Community College has trained more than 550 installers since 2019, helped support small businesses
- Next phase will focus on increasing pace of low income, multi-family, municipal and school, and small business installations

Heat pump goal reached and new target set



Source: Efficiency Maine and MaineHousing.
Note: Efficiency Maine's reported numbers are aggregated to their fiscal year which runs from July 1 of the previous year to June 30 of the stated year. MaineHousing's reported numbers are based on a given calendar year.



Expanding EV charging networks

Recharge Maine

State initiative to create a convenient, reliable, and accessible EV charging network

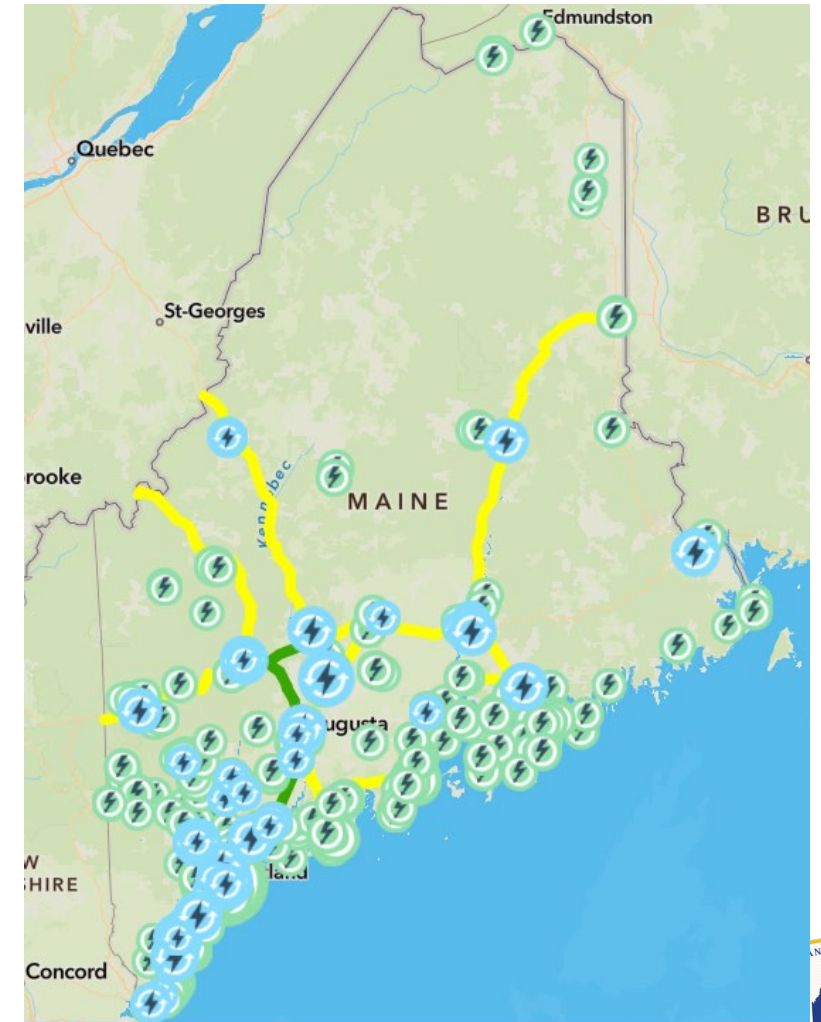
Expanding public level 2 and DC fast chargers

Funding available

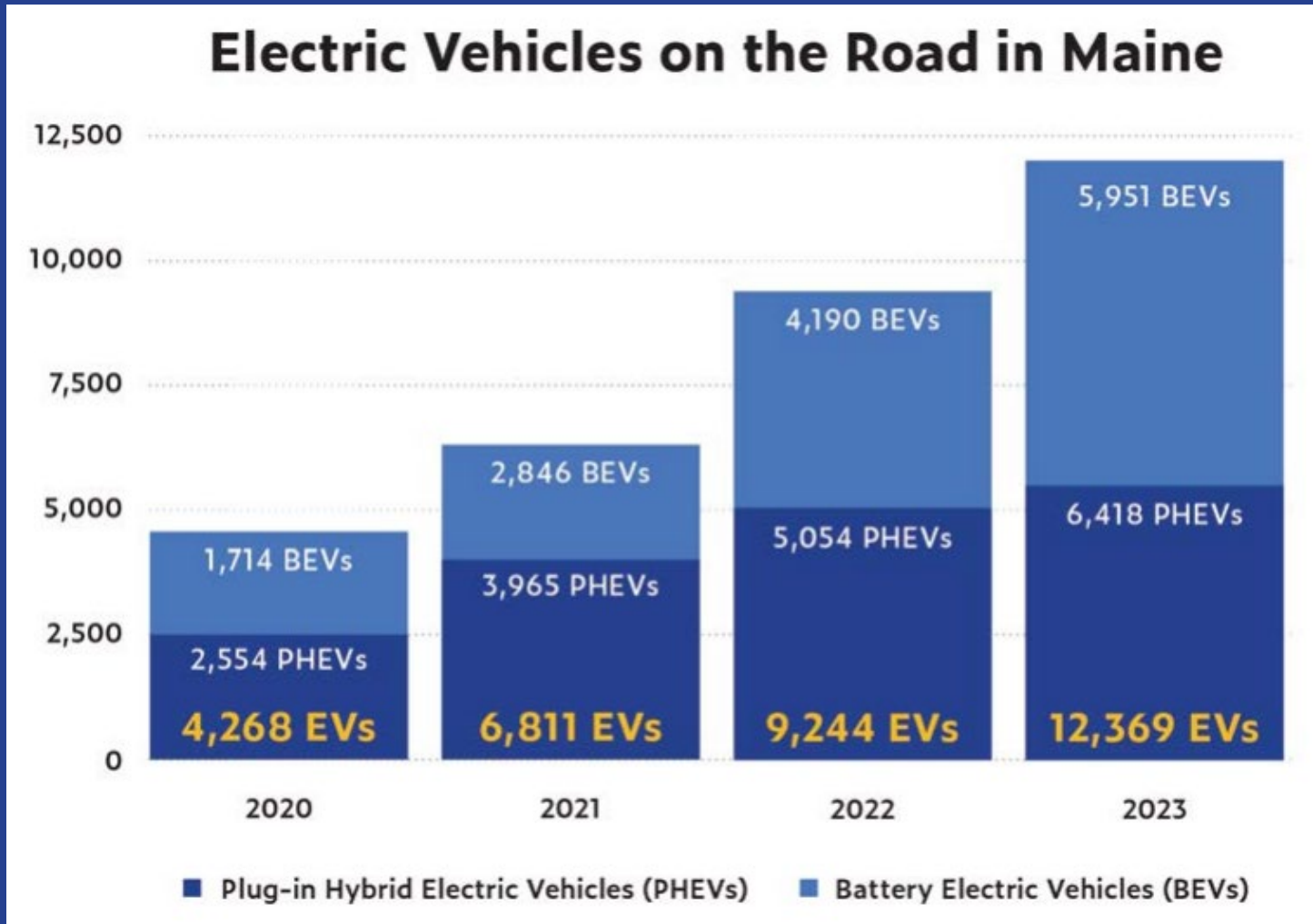
\$8 million from Maine Jobs and Recovery Plan (MJRP)

\$18 million from FHWA's National Electric Vehicle Infrastructure (NEVI) program

Maine currently has **459** public EV charging stations, with over **1,000** charging ports, up from 389 stations in 2022



More EVs on the road

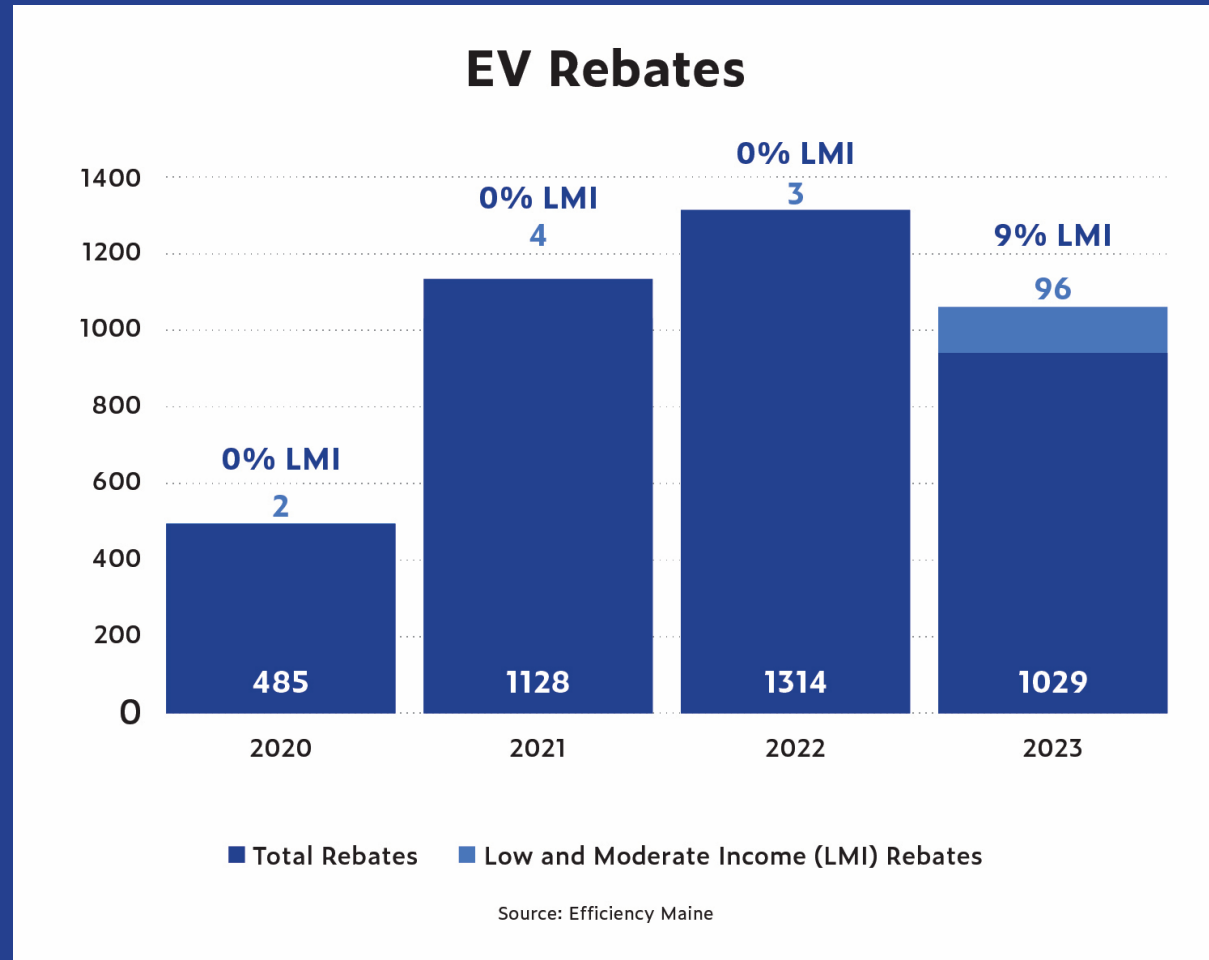


Maine Won't Wait goal:
Expand electric vehicle use in Maine toward target of having 219,000 on the road by 2030

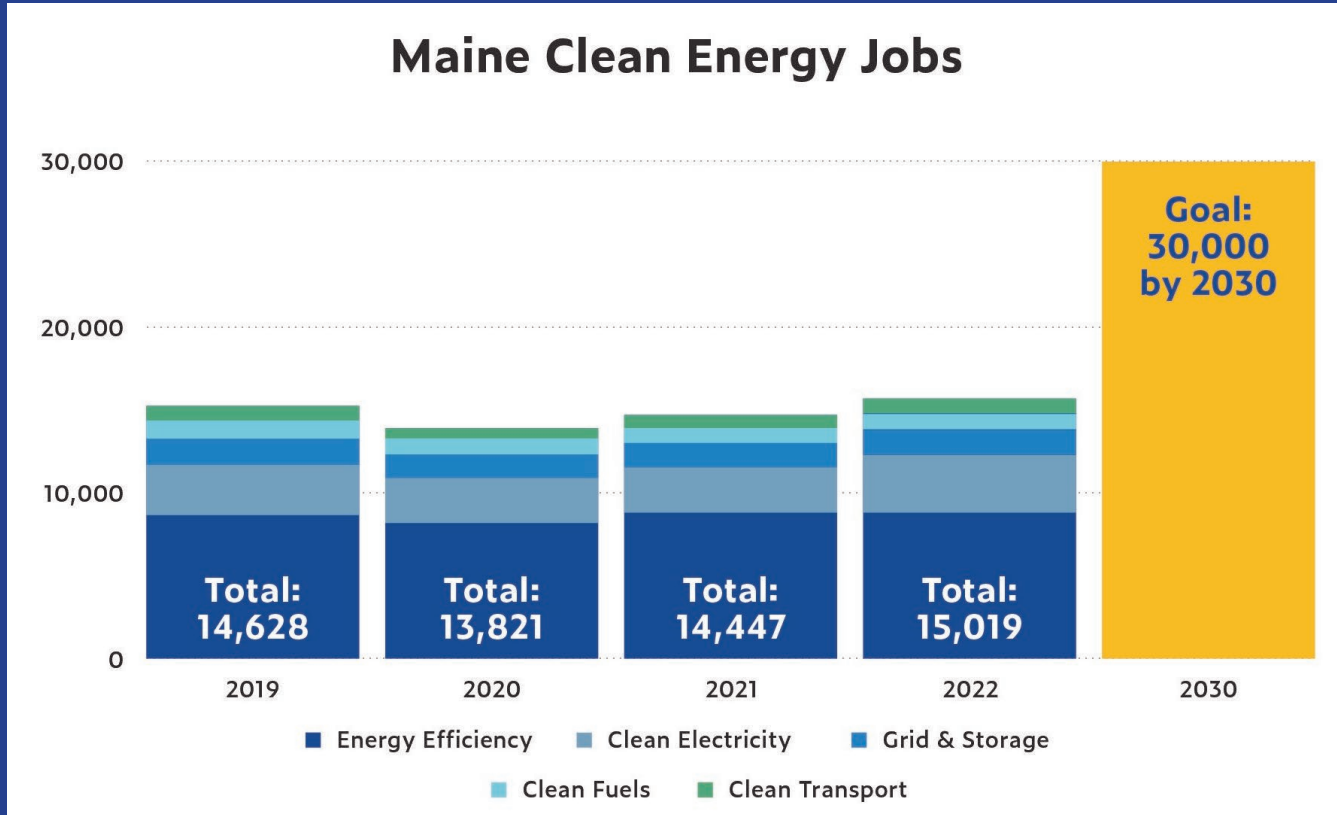
Data source: Maine DEP and Atlas Public Policy

EVs for low-to-moderate income households

9% of EV rebates went to low and moderate income households in Fiscal Year 2023



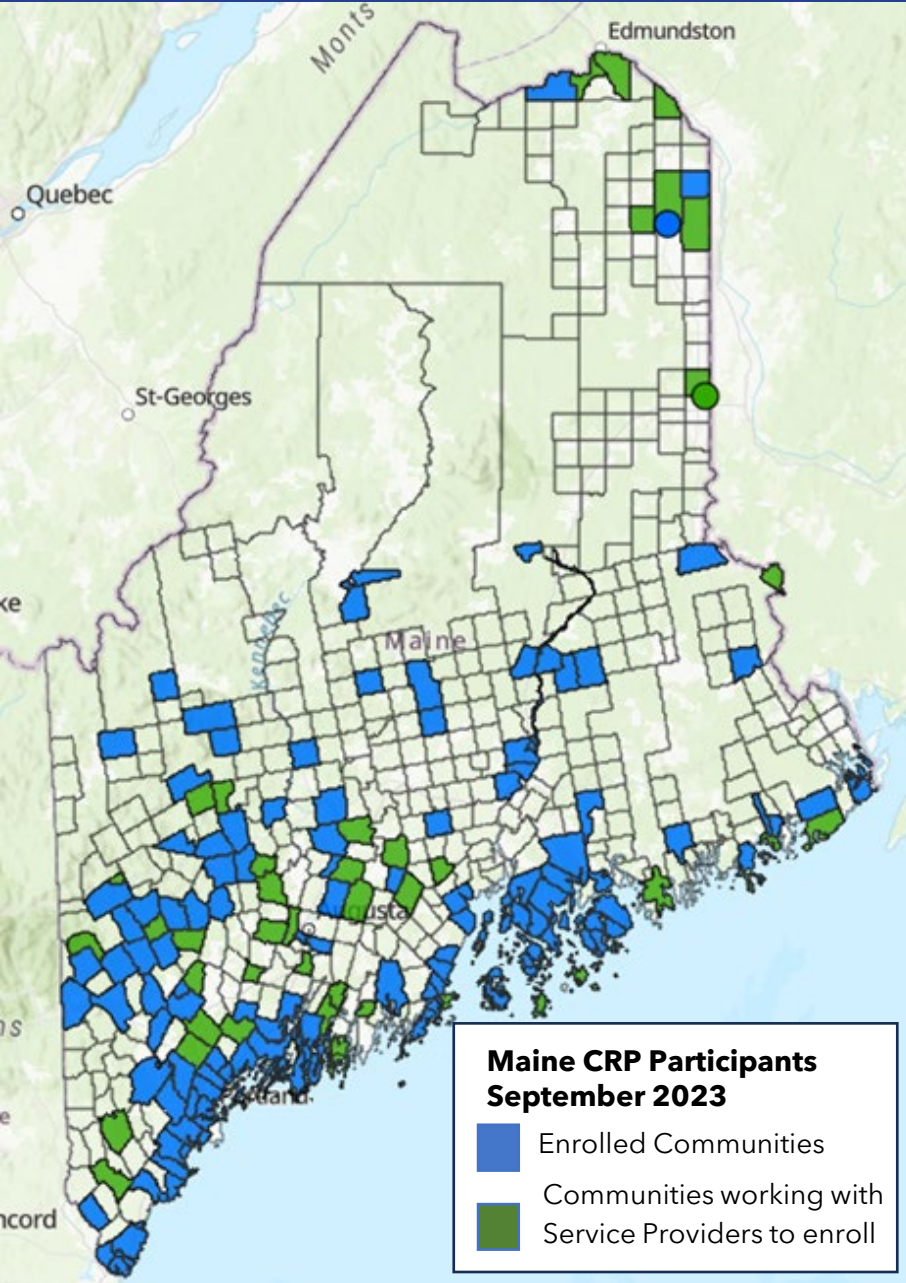
Clean Energy Jobs



Maine's Clean Energy Partnership has awarded **\$2.5 million** in grants to nine entities to advance clean energy workforce development.



Source: 2022 US Energy and Employment Report

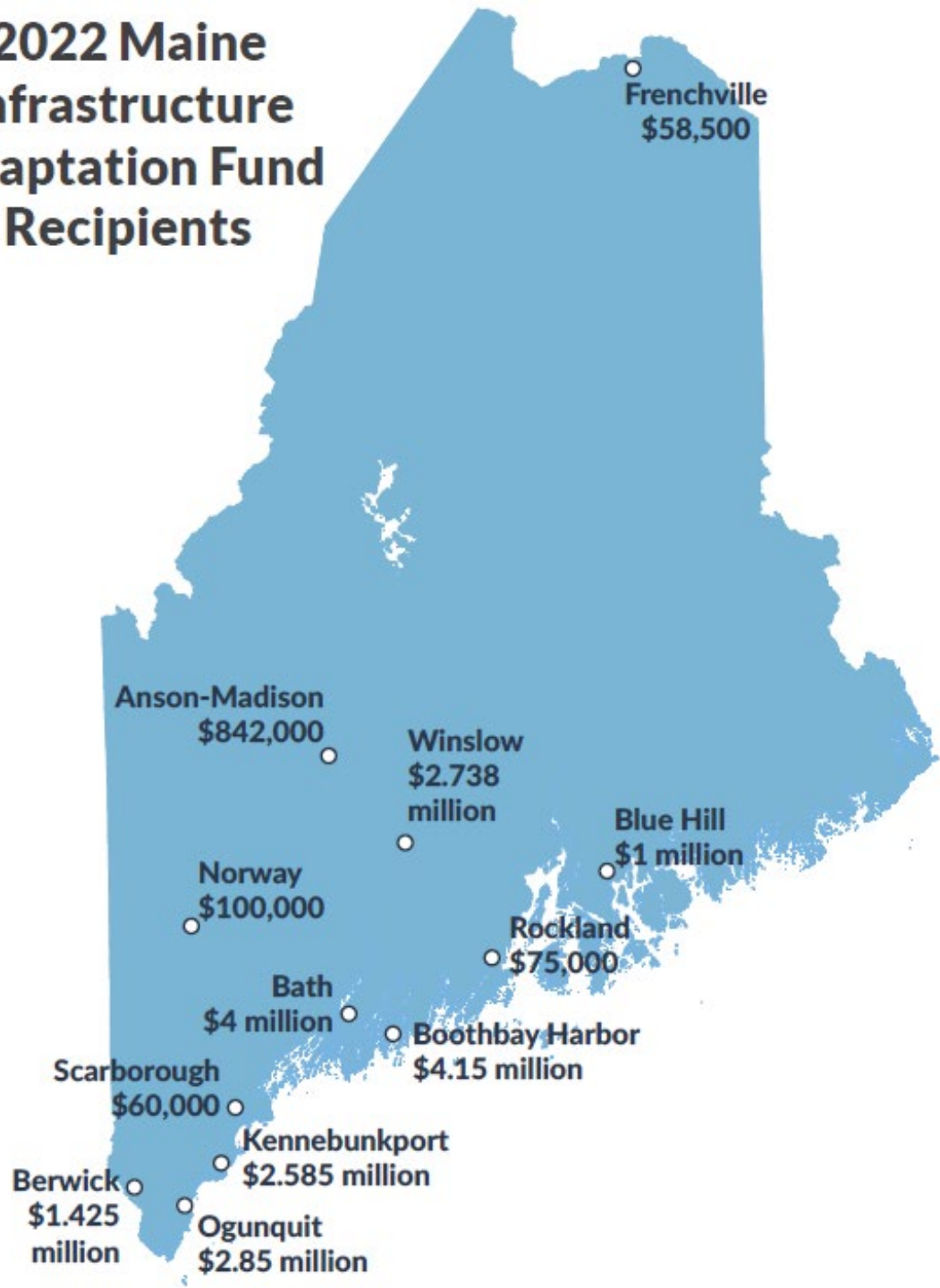


Providing technical assistance and funding for local climate action through the Community Resilience Partnership

- 174 participating communities
 - 129 fully enrolled and 45 working to enroll with service provider support
- Focus on increasing enrollment from Maine's socially vulnerable communities
- \$3 million dollars/year in state grants for climate planning, emission reduction and resilience actions



2022 Maine Infrastructure Adaptation Fund Recipients



Investing in Climate Ready Infrastructure through the Maine Infrastructure Adaptation Fund

- In 2022, awarded nearly \$20 million to 12 communities to protect vital infrastructure
- 2023-2024 biennial budget: \$7 million in new funding for culverts, project development, and cost-share grants
- Additional state and federal investments in infrastructure, including wastewater and drinking water programs (approximately \$188 M in total)

Recent Major Federal Funding Laws

2021: American Rescue Plan Act (ARPA)

\$1.9 trillion

~\$1b for the Maine Jobs & Recovery Plan (MJRP)

**Workforce Development,
Business Supports,
Infrastructure Upgrades**

2021: Bipartisan Infrastructure Law (BIL)

\$1.2 trillion

~\$2.5b available to ME

**Transportation,
Environment &
Resiliency, Energy,
Broadband**

*Many initiatives targeting
community infrastructure*

2022: Inflation Reduction Act (IRA)

\$394
billion

Clean Energy

*Much in form of incentives
for individuals and private
firms (tax credits, loans,
grants)*

2022: CHIPS & Science Act (CHIPS)

\$280
billion

**Semiconductors
manufacturing & Science
R&D**

*Incentives for semiconductor
manufacturers, plus significant
funding for research and
workforce institutions*

Big Investments in Maine's Heritage Industries

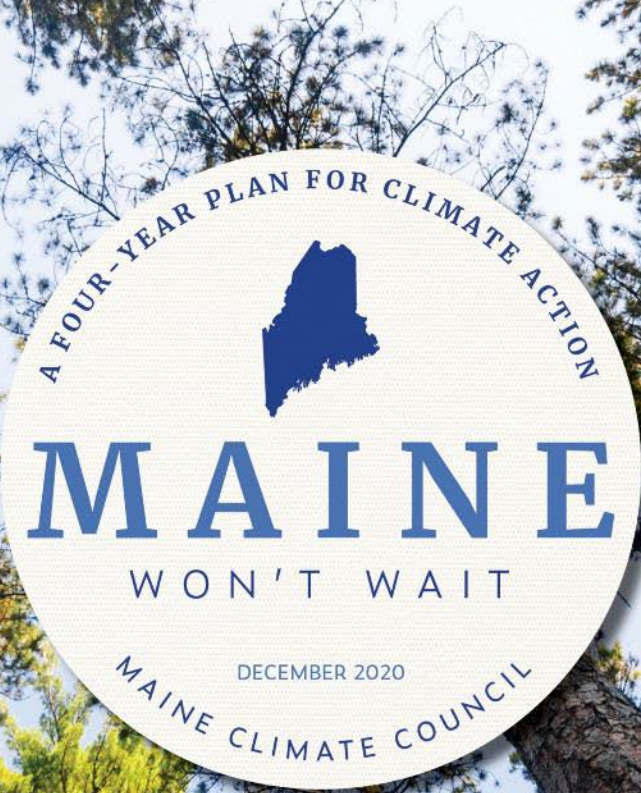
- **Maine Seafood Dealer and Processor COVID-19 Response and Resilience Grant Program** Committed nearly \$16 million in federal funds, including \$10 million from the Maine Jobs and Recovery Plan (MJRP) to helping seafood dealers and processors recover from the pandemic, administered by Maine Technology Institute (MTI)
- **Seafood Economic Accelerator (SEA Maine)** developing a roadmap to create economic growth and resilience in Maine's seafood economy
- **Forestry Recovery Initiative:** Provided \$20 million in MJRP funding to provide recovery grants to Maine forestry and wood products businesses administered by MTI
- **Agricultural Infrastructure Investment Program:** Provided \$20 million in MJRP funding and administered by the Department of Agriculture, Conservation and Forestry (DACF) to support a variety of infrastructure needs, including harvesting, processing, and manufacturing or packaging and handling equipment.
- **Maine Farmer Drought Relief Grant Program** established at the Department of Agriculture, Conservation and Forestry (DACF) to support Maine farmers in identifying and accessing new water sources to overcome the adverse effects of climate change

Federal “Tech Hub” Designation

- Maine’s **“Forest Bioproducts Advanced Manufacturing Tech Hub”** named as one of 31 “Tech Hubs” awarded nationally
- Opens the door for significant Federal investment in Maine’s forest bioproducts sector
- Will help accelerate research and development of wood fiber bioproducts that can sequester carbon and replace plastics and toxic chemicals – from building products to packaging materials



Credit: Tanbark Molded Fiber Products



A FOUR-YEAR PLAN FOR CLIMATE ACTION



MAINE

WON'T WAIT

DECEMBER 2020

MAINE CLIMATE COUNCIL

How we'll work together

We will strive to make **consensus-based decisions**, meaning we all can live with the outcome

- Makes our product **more powerful**: Supports effective implementation (was one secret sauce of *Maine Won't Wait!*)
- **Requires dialogue**: This will require **working creatively through our differences**, by **listening** closely to each other to find solutions that **address underlying concerns** and interests
- **Specific issues**: If we can't resolve differences on a specific issue, we'll create an annex that captures different views
- **Voting back-up**: If we need it, we can approve our output with a majority vote

2024 Meeting Schedule

- **March 14, 2024** – Zoom
- **June 18, 2024** – In person, location TBD
- **September 25, 2024** – Zoom
- **October 23, 2024** – Zoom
- **November 21, 2024** – In person, location TBD



Maine Climate Council

