



MAINE GOVERNOR'S  
Energy Office

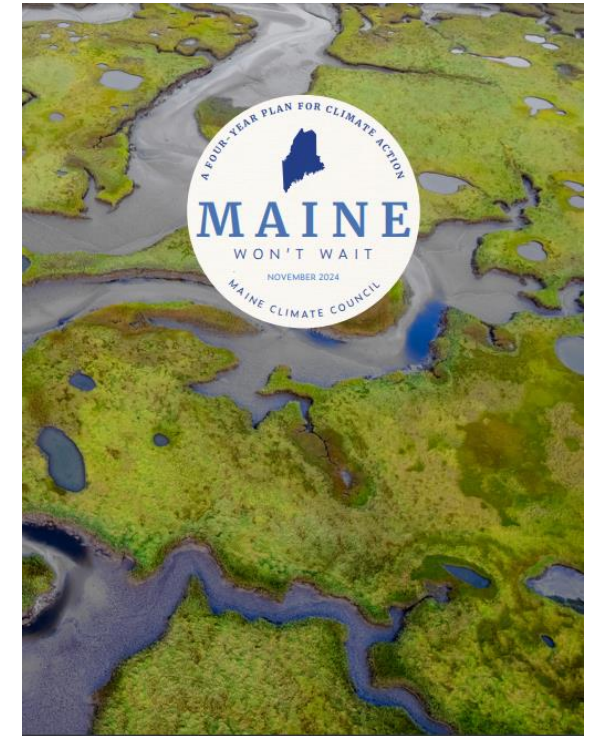
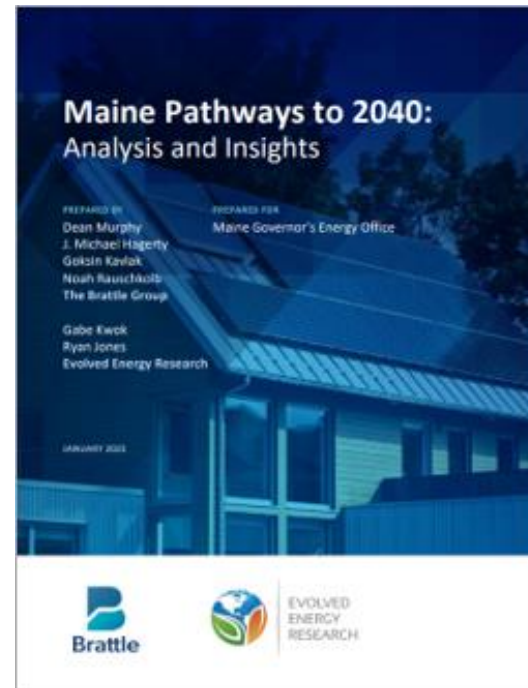
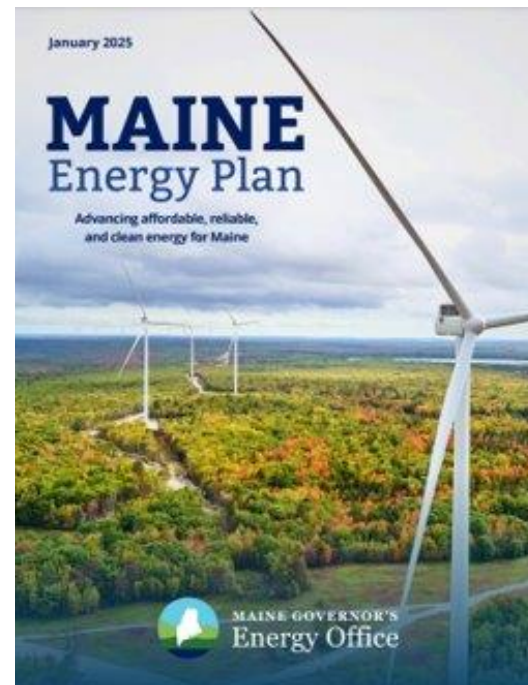
# Maine Energy Plan

NASEO State Energy Planning Roundtable

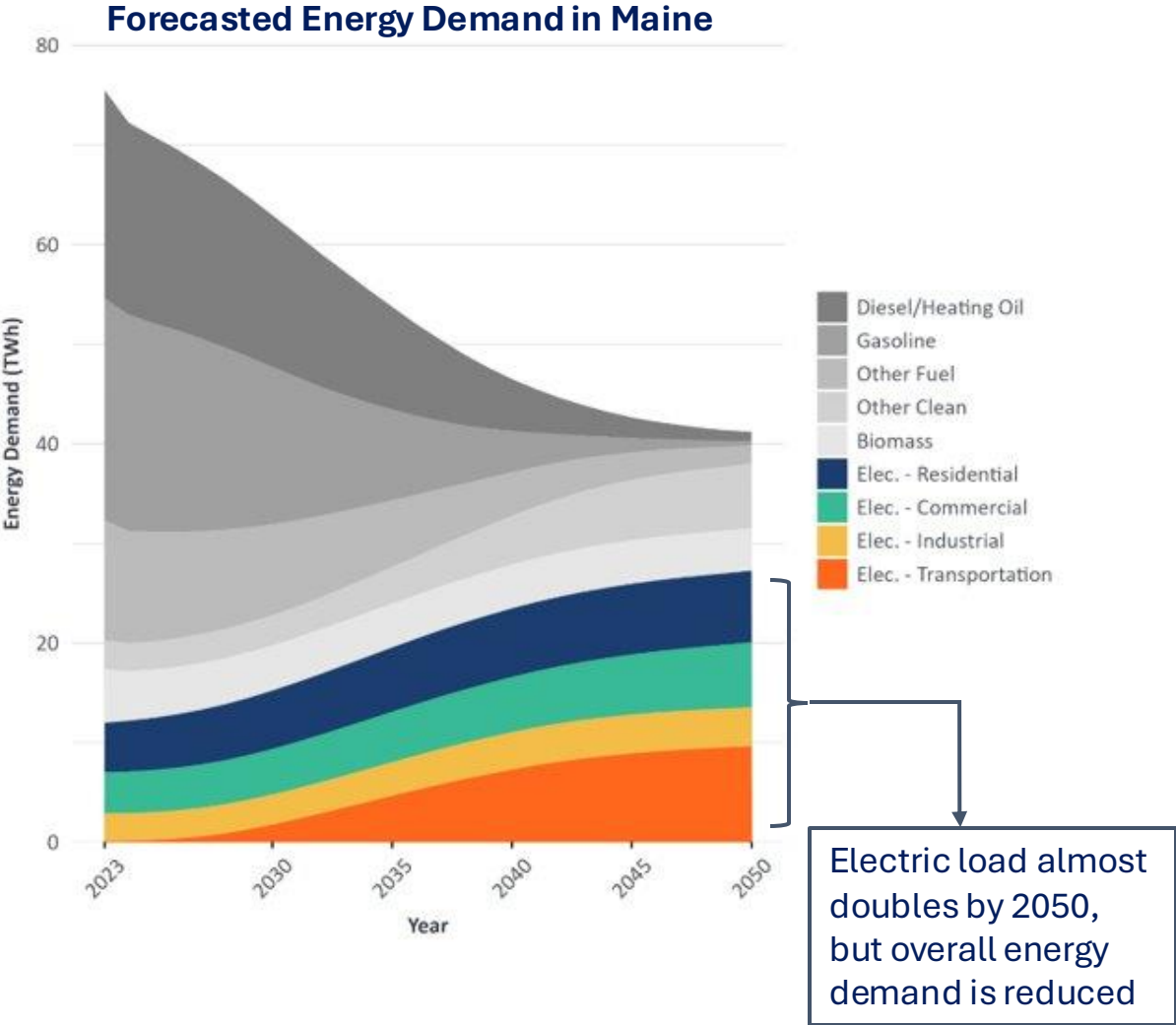
Dan Burgess, *Director*

# Maine Energy Plan

- Per statute, the Governor’s Energy Office (GEO) is required to develop a state energy plan and update it every 2 years
- In 2023, Governor Mills directed GEO to develop a pathway to achieve Maine’s goal of **100 percent clean energy by 2040**
- Culmination of an 18-month stakeholder process
  - 5 public webinars, multiple opportunities for public comment, stakeholder meetings
- Built upon the technical analysis and modeling in the “Pathways to 2040” report
- Aligned with the 2020 Maine Won’t Wait Climate Plan and coordinated with the objectives of the state’s 10-Year Economic Plan and the Maine Infrastructure Rebuilding and Resilience Commission



# The “Pathway to 2040” technical report modeling was grounded in the 2020 Maine Won’t Wait Climate Plan



First-of-its-kind hourly modeling of electric load growth in Maine

## Key Takeaways

- 100% clean energy by 2040 is **achievable, beneficial, and results in reduced energy costs** across the economy
- Electrification; diversity of supply are key to ensuring more affordable, reliable, clean energy for Maine
- Key considerations:
  - Innovation; emerging technologies and applications for load flexibility

# Maine Energy Plan Objectives



**A**

Deliver affordable energy for Maine people and businesses



**B**

Ensure Maine's energy systems are reliable and resilient in the face of growing challenges



**C**

Responsibly advance clean energy



**D**

Deploy efficient technologies to reduce energy costs



**E**

Expand clean energy career opportunities for Maine people and advance innovation



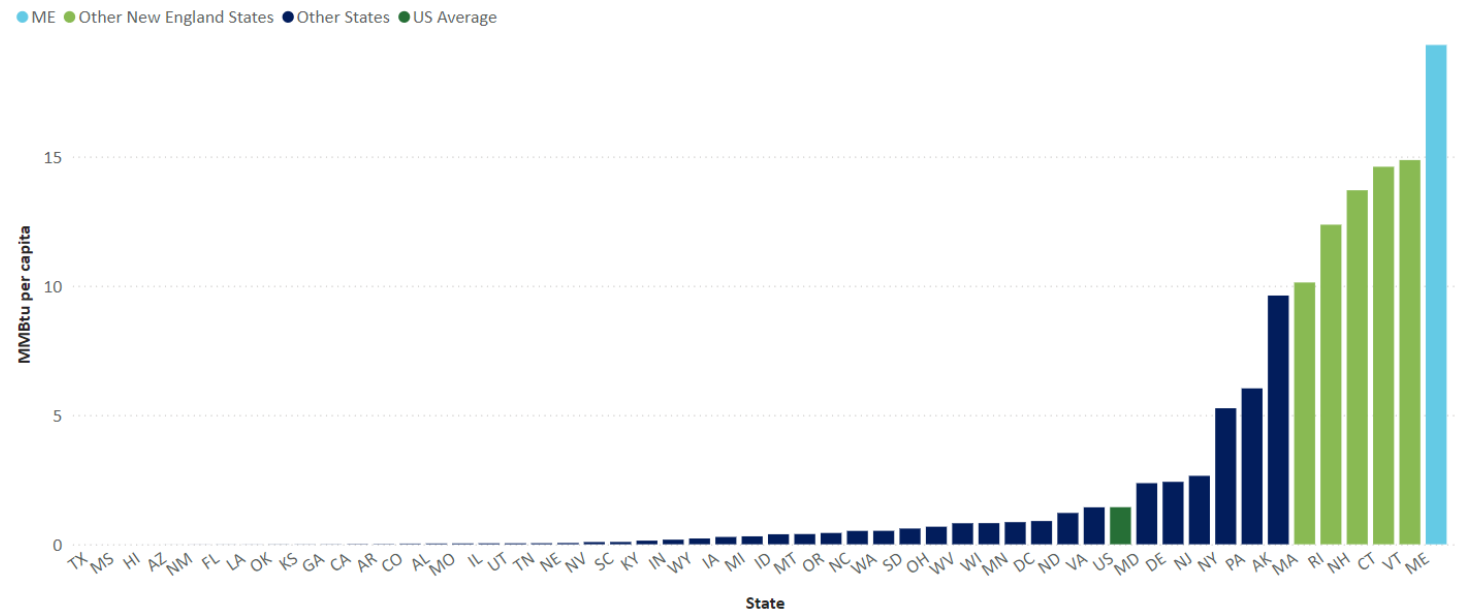
# Objective A: Deliver affordable energy for Maine people and businesses

**Strategy A:** Reduce Maine's dependence on imported fossil fuels for heating and electricity

**Strategy B:** Reduce energy burden for low- and moderate-income households

**Strategy C:** Review existing approaches to identify additional electricity cost control opportunities

Distillate fuel oil (e.g., heating oil) consumed by the residential sector by location (2022)



# Objective B: Ensure Maine's energy systems are reliable and resilient in the face of growing challenges

**Strategy A:** Establish ambitious, data-driven targets for energy resilience

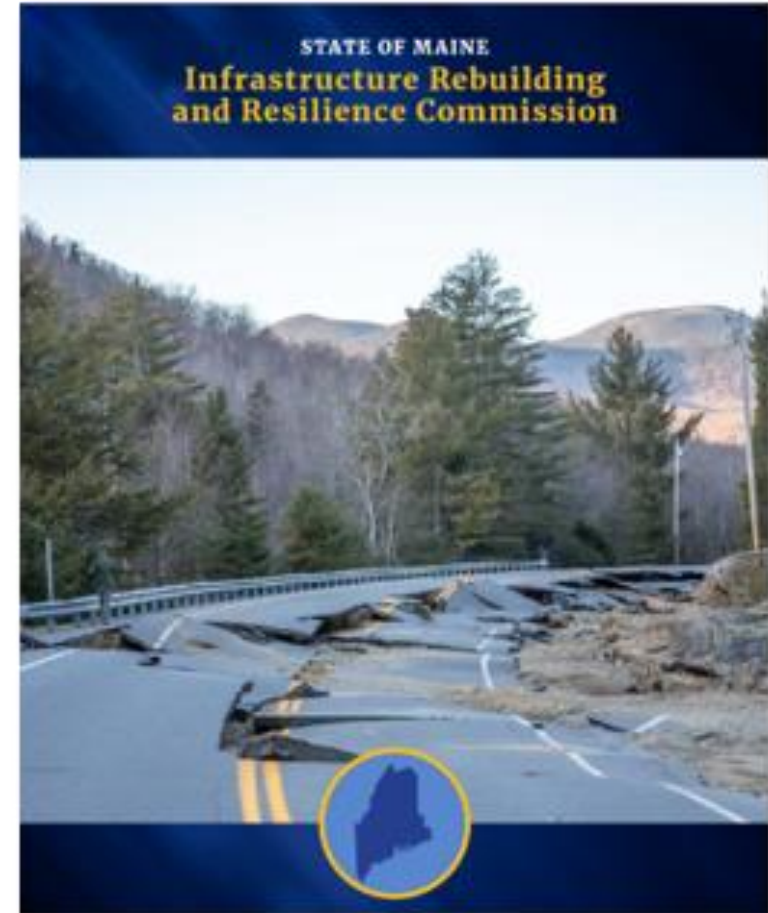
**Strategy B:** Increase coordination and information-sharing across energy-related emergency management and resilience entities

**Strategy C:** Deploy targeted resources to advance innovative and modern resilient solutions including microgrids

**Strategy D:** Leverage innovative technologies including energy storage to increase resilience and reduce greenhouse gas emissions.

**Strategy E:** Strengthen planning and engagement by utilities to identify and address climate and resilience threats cost-effectively.

**Strategy F:** Advance partnerships and coordination to enhance Maine's energy security and maximize relevant federal and other funding opportunities.



# Objective C: Responsibly advance clean energy

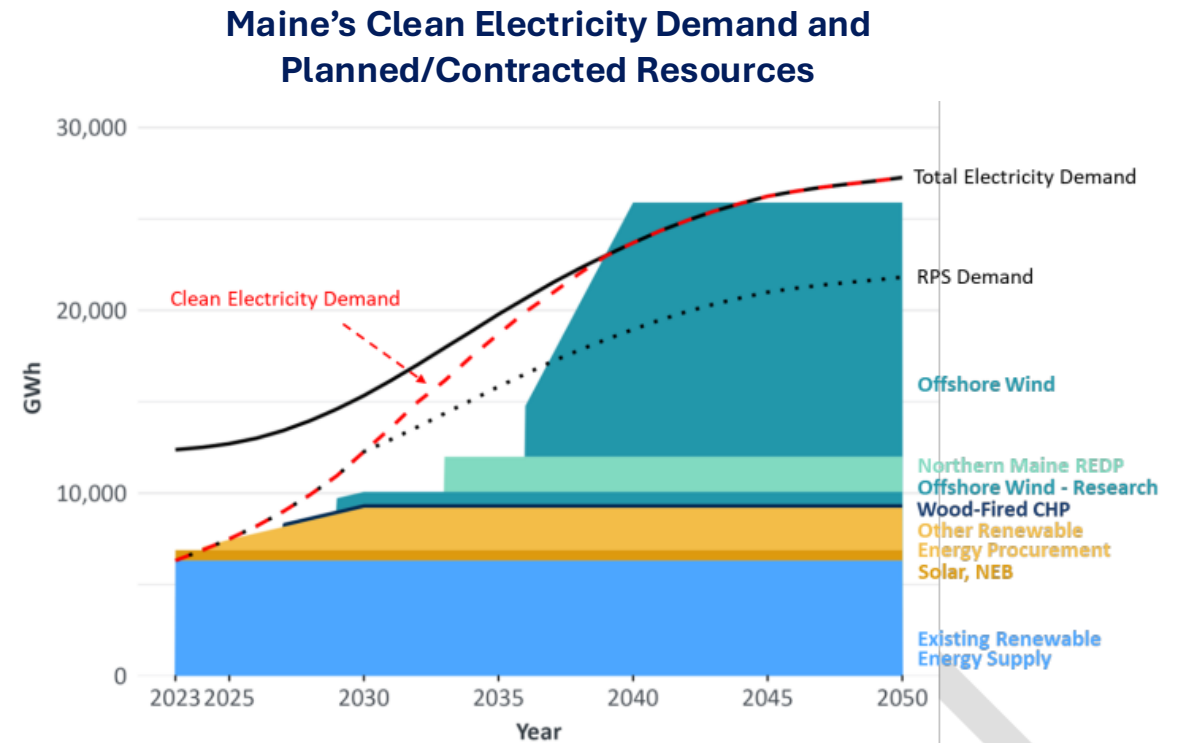
**Strategy A:** Establish a new Clean Energy Standard (CES) to ensure all Maine people have affordable access to 100% clean energy by 2040.

**Strategy B:** Establish a regular schedule of competitive energy purchases

**Strategy C:** Advance responsible deployment of offshore wind energy

**Strategy D:** Advance efficient, necessary infrastructure to modernize Maine's energy systems

**Strategy E:** Coordinate and collaborate regionally to maximize benefits and achieve shared goals



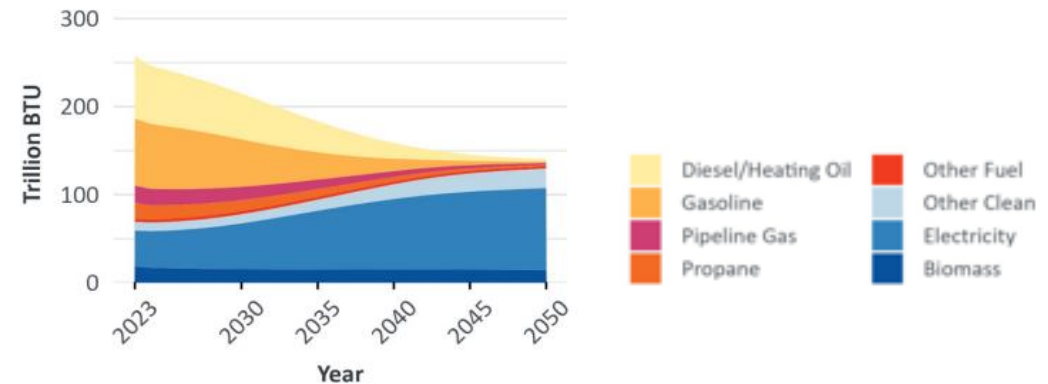
# Objective D: Deploy efficient technologies to reduce energy costs

**Strategy A:** Advance beneficial electrification and weatherization to reduce energy costs and increase overall grid efficiency

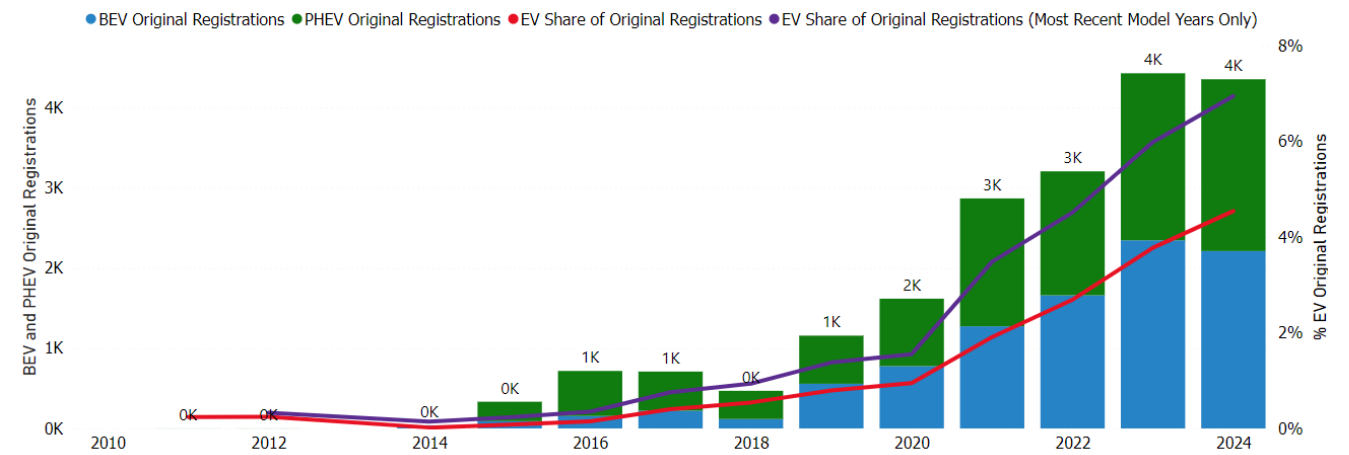
**Strategy B:** Leverage electrified technologies to unlock grid benefits to consumers

**Strategy C:** Expand Maine's EV charging network

Forecasted Overall Energy Use in Maine



Registrations of EVs and plug-in hybrids in Maine





# Objective E: Expand clean energy career opportunities for Maine people and advance innovation

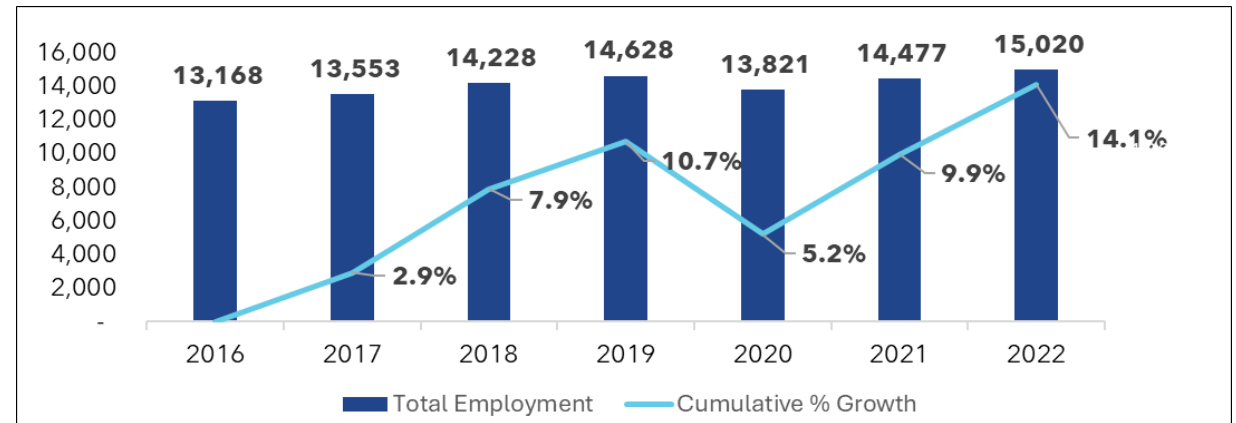
**Strategy A:** Raise awareness of clean energy careers and connect employers to the local workforce through the Clean Energy Partnership

**Strategy B:** Advance clean energy curricula development, technical training, and experiential learning

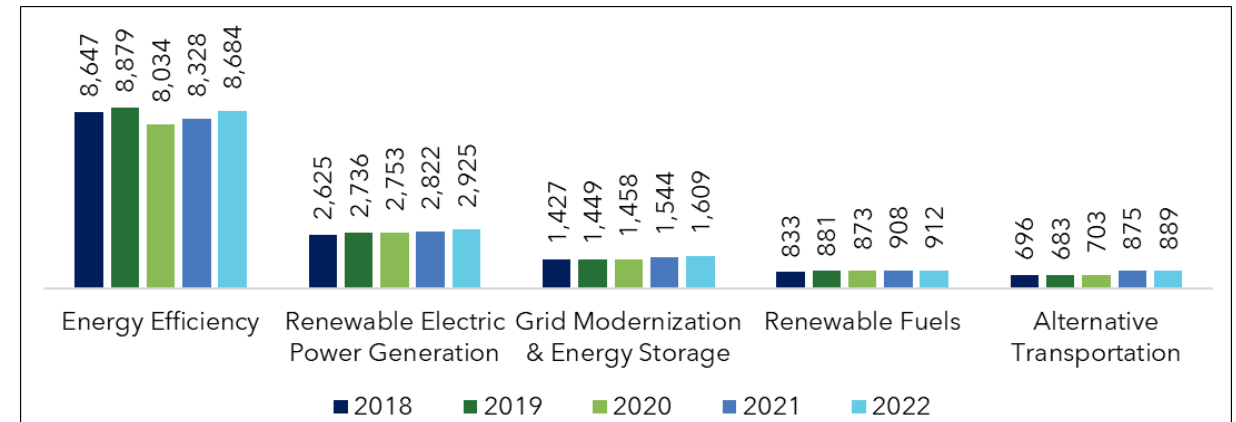
**Strategy C:** Coordinate with educational institutions, technical and vocational training centers, labor unions, and employers to expand and promote clean energy career pathways

**Strategy D:** Expand pilot programs, technical assistance, and funding for clean energy innovation and foster partnerships with research, education, and innovation institutions and the private sector to advance clean energy innovation

Clean Energy Job Growth in Maine



Clean Energy Jobs in Maine by Sector



# Learn More

- The Maine Energy Plan and the Technical Report are both available to view and download on the GEO website: [maine.gov/energy](https://maine.gov/energy)
- GEO will update the plan every two years
- Stay connected with the office by signing up for our newsletter using the QR code on the next slide





MAINE GOVERNOR'S  
Energy Office

Thank You

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[www.maine.gov/energy](http://www.maine.gov/energy)

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