

An aerial photograph of a town built on a hillside overlooking a river. The scene is captured during the "golden hour" of sunset, with warm orange and yellow light in the sky. In the foreground, a paved walkway runs along the riverbank, lined with green trees. The middle ground is filled with various buildings, including a prominent white building with a blue roof and a tall, dark steeple. The background shows more of the town and a forested hillside under a soft, hazy sky.

Community Climate Conversation: Modernizing Our Buildings

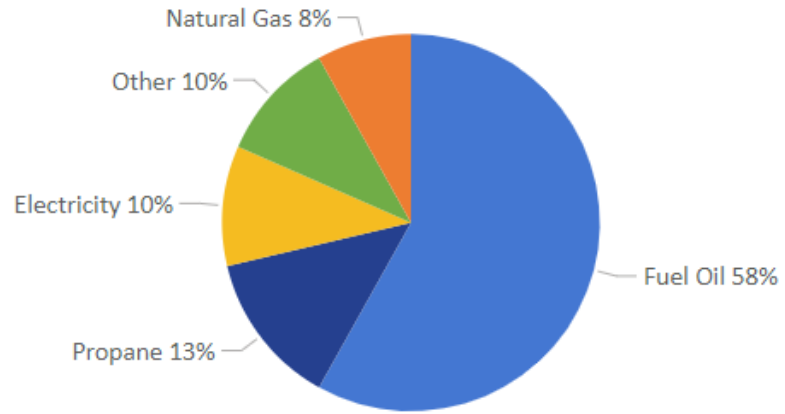
Ross Anthony, Buildings and Energy Efficiency Analyst
Maine Governor's Energy Office



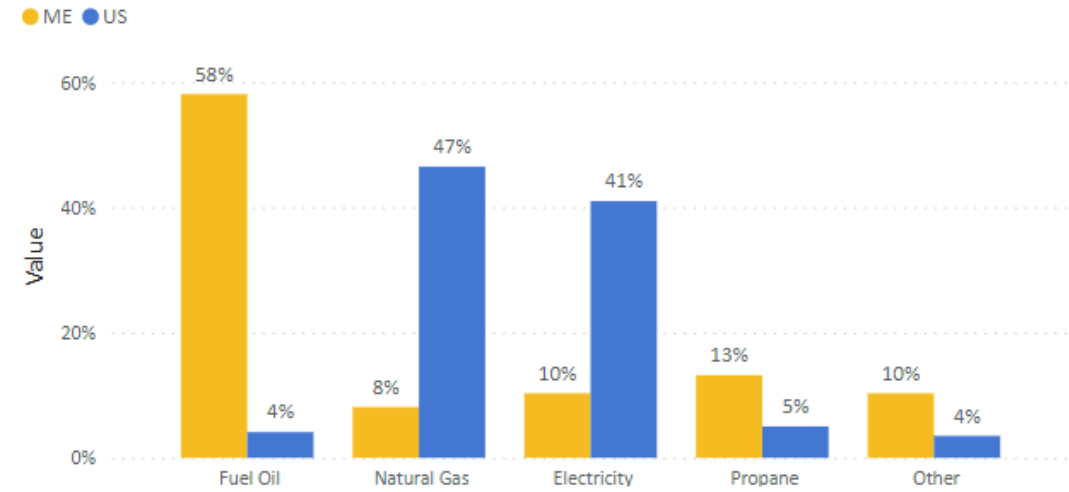
GOVERNOR'S
Energy Office

Maine, New England & U.S. Home Heating Data

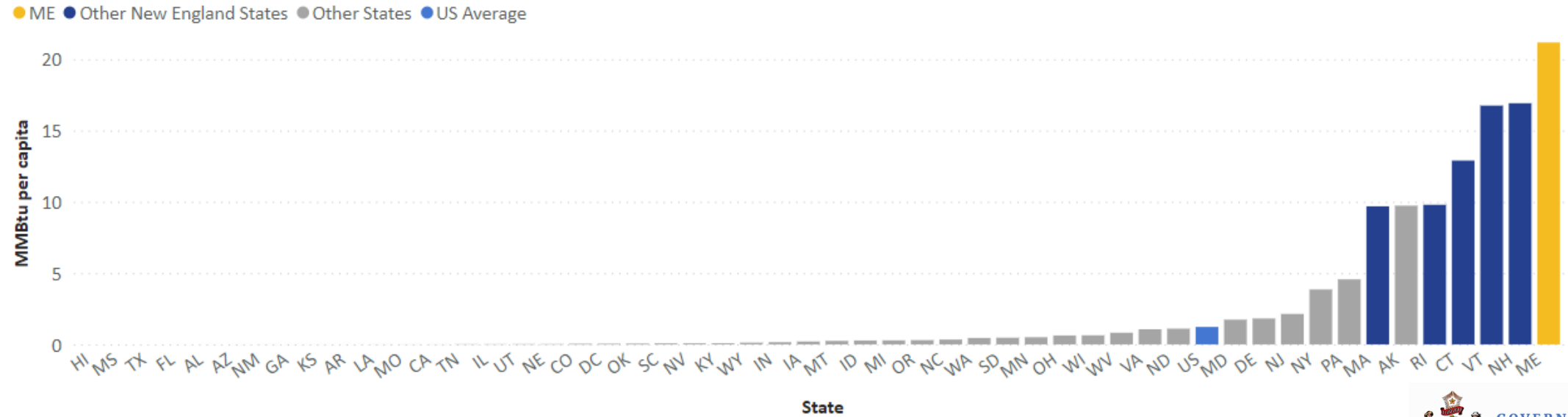
Share of Energy Sources Consumed for Residential Heating, Maine (2021)



Share of Energy Sources Consumed for Residential Heating (2021)



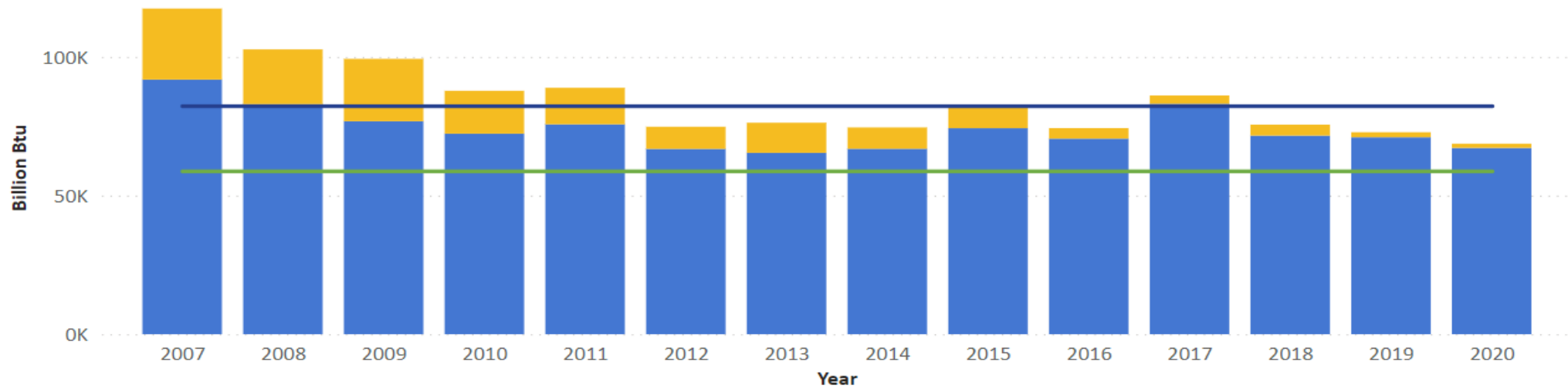
Distillate fuel oil consumed by the residential sector (2020)



Maine Fuel Oil Consumption, 2030 and 2050 Goals

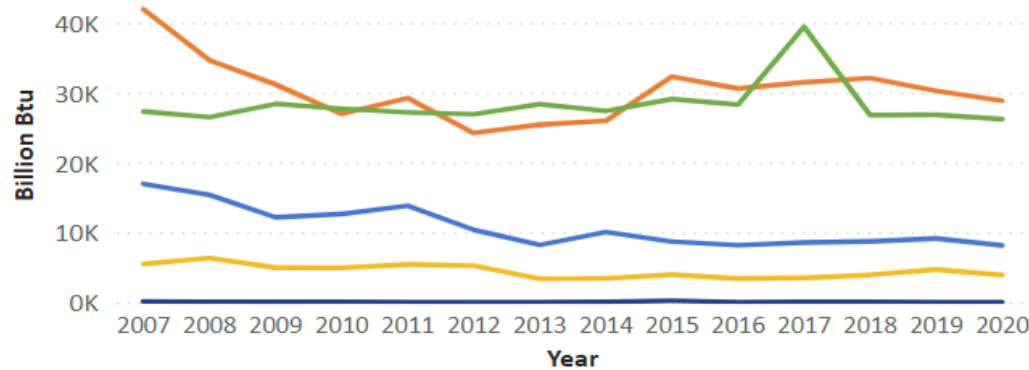
Fuel oil total consumption with 2030 and 2050 goals, Maine

● Distillate Fuel Oil ● Residual Fuel Oil ● 2030 Oil Consumption Goal ● 2050 Oil Consumption Goal



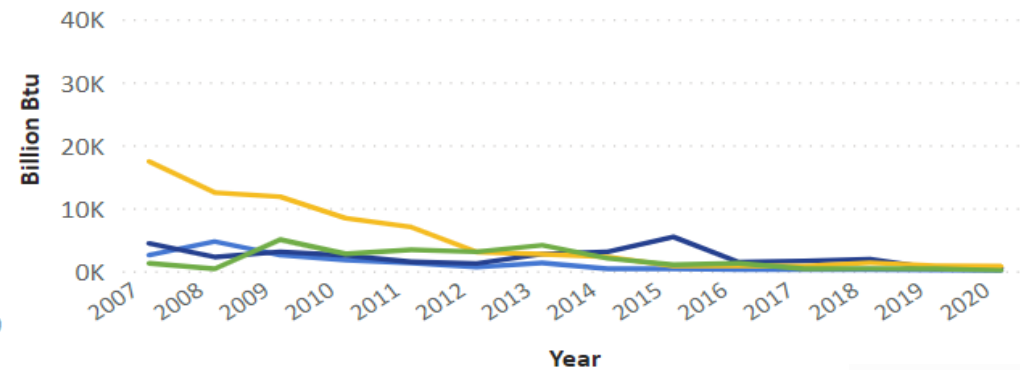
Distillate fuel oil consumed by sector, Maine

● Commercial ● Electric Power ● Industrial ● Residential ● Transportation



Residual fuel oil consumed by sector, Maine

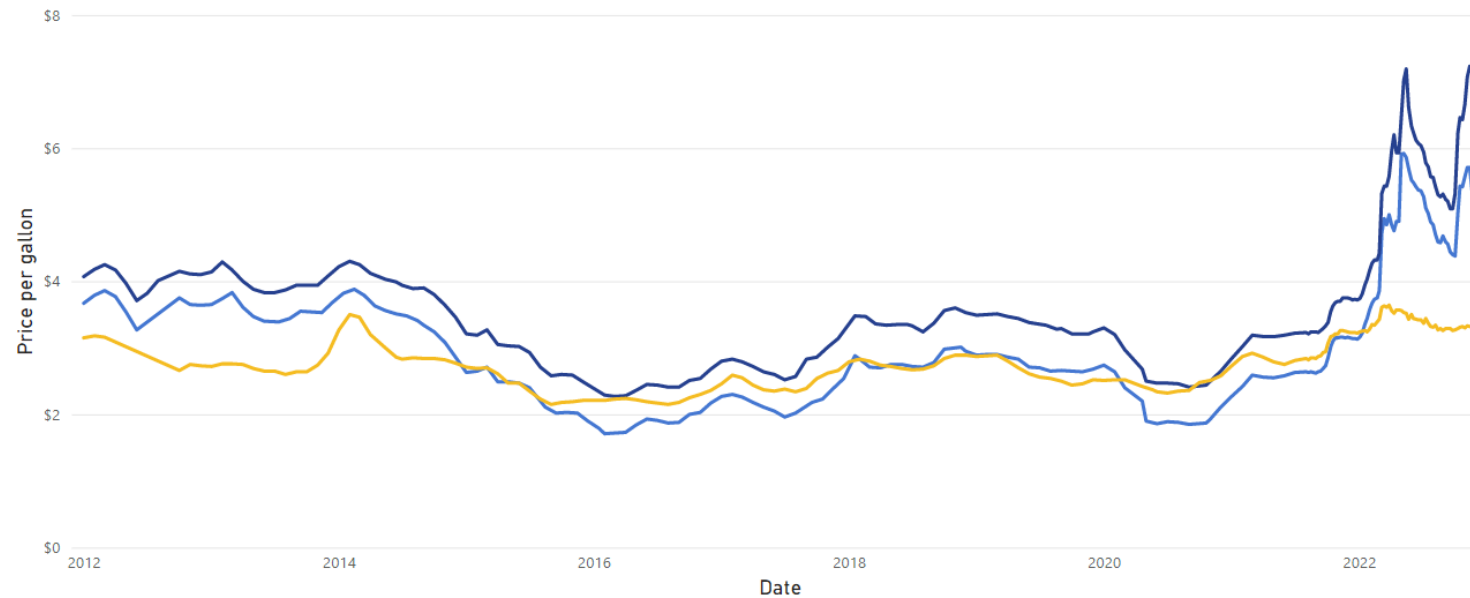
● Commercial ● Electric Power ● Industrial ● Transportation



Winter Heating

Maine Delivered Fuel Prices (2012-2022)

Fuel ● Heating Oil ● Kerosene ● Propane



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2022-2023 Winter Heating Season Tips and Resources

Energy prices are expected to remain high this winter due to continued world market volatility from the Russian invasion of Ukraine. This guide contains resources for Maine people to help stay warm this winter and find heating assistance if needed.



Track Prices

The Governor's Energy Office tracks heating fuel prices weekly and compares costs of heating sources to help you make informed energy decisions.

[TRACK PRICES](#)



Energy Efficiency

Weatherizing your home can help you stay comfortable and save money this winter. Learn more about incentives and get energy saving tips from [Efficiency Maine](#) and [MaineHousing](#).



Tune Up

Schedule your annual heating system maintenance as soon as possible to ensure it is operating most efficiently. Schedule a chimney cleaning for wood and oil burning systems to ensure safe operation during winter. Stay comfortable and save money by keeping your heat pump tuned up. Learn more from [Efficiency Maine](#)



Heat Pumps

Electric heat pumps are the most cost-efficient heating source available and are proven to work in cold weather. Multiple incentive programs exist to reduce the cost of installing a heat pump for low-and-moderate-income Maine households. Learn more from [Efficiency Maine](#) and [MaineHousing](#).

maine.gov/energy

Maine Winter Heating Tips and Resources

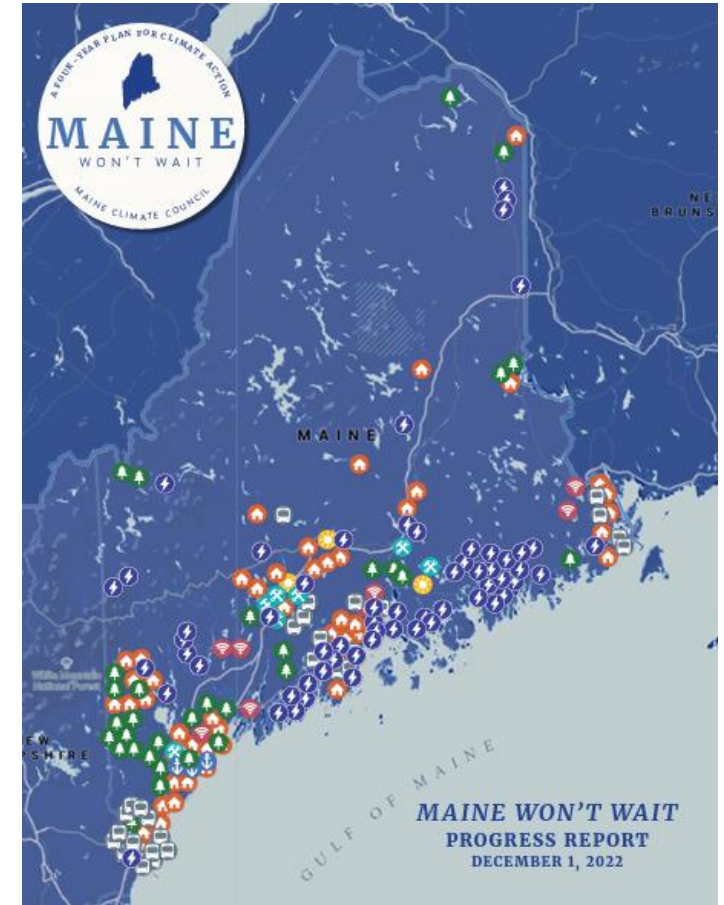
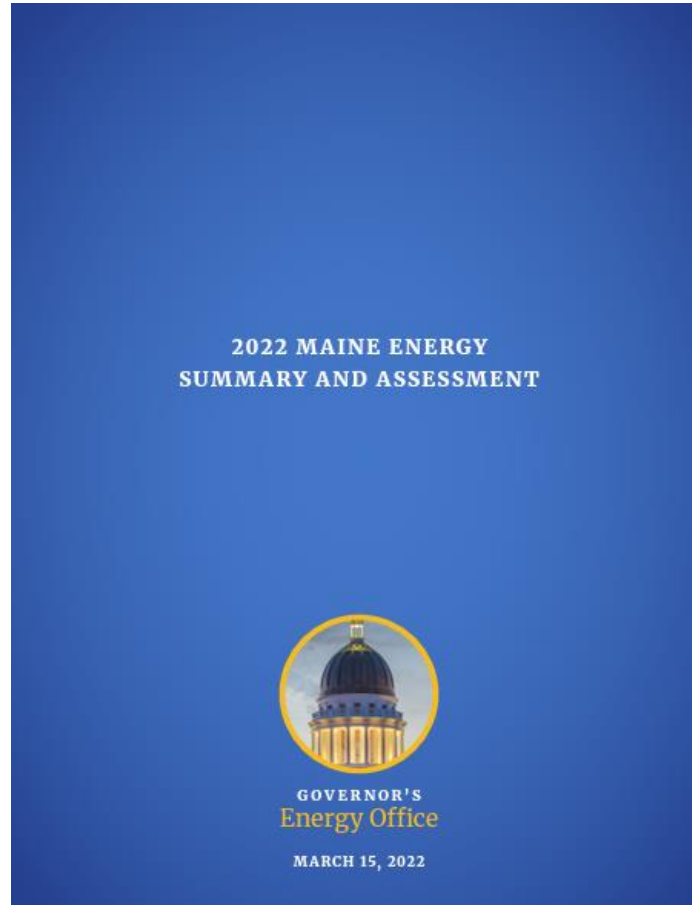
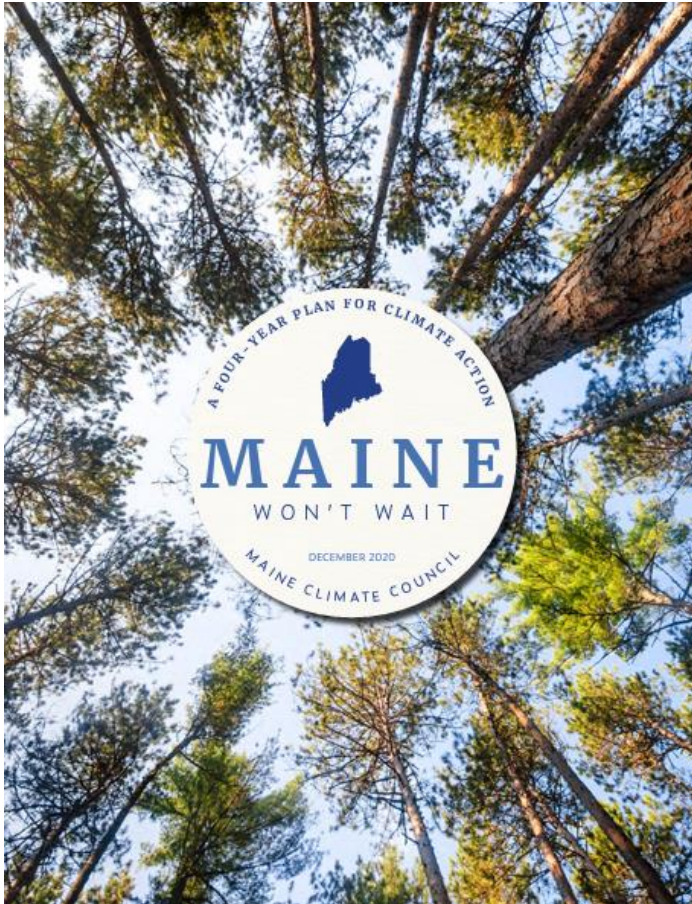
www.maine.gov/energy/winter-heating-resources



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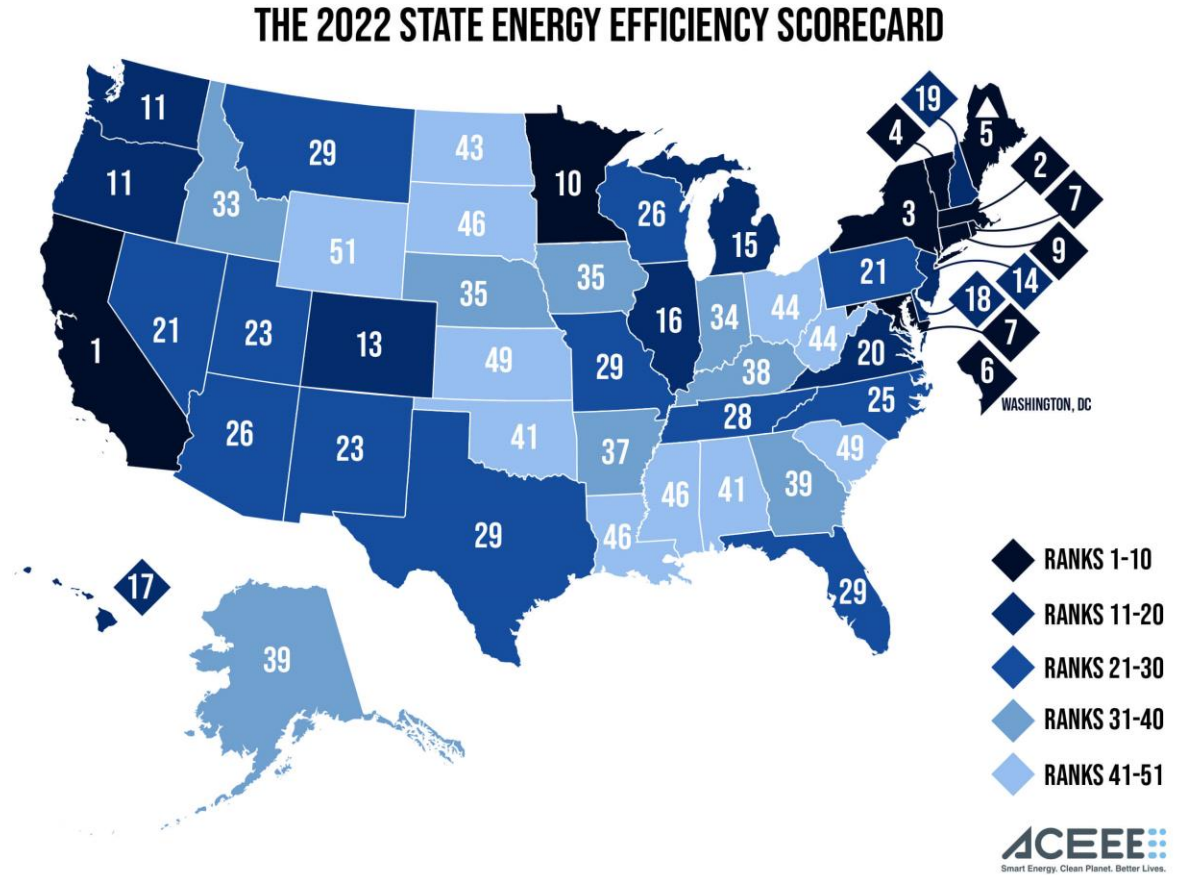
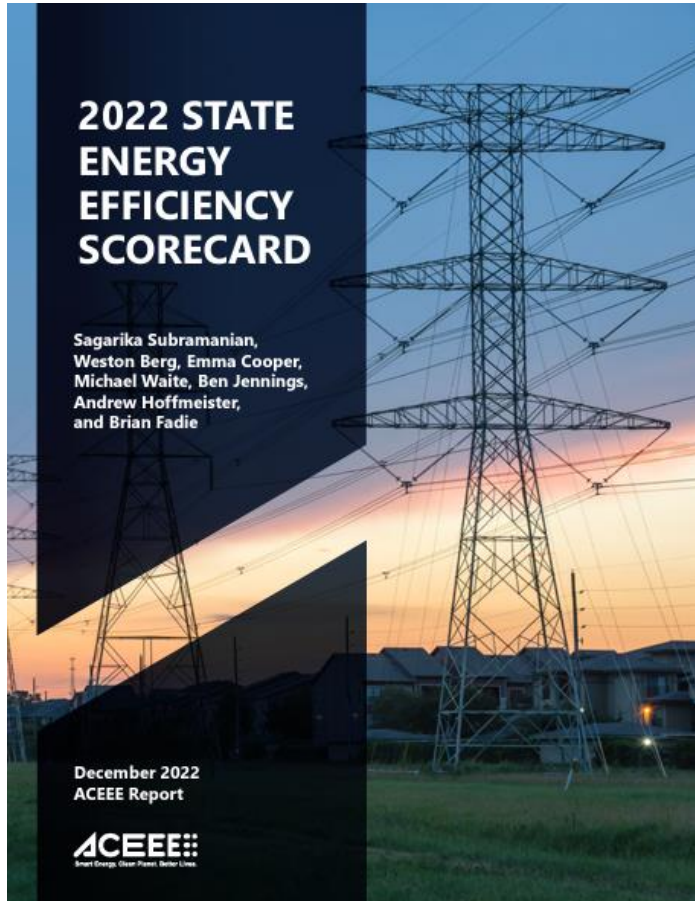
Reports

Comprehensive overview of Maine's climate, building, and energy efficiency goals



Reports: Exciting News!

Maine ranks 5th in the country and most improved state on state energy efficiency policies



Energy Efficiency: Weatherization

Weatherization projects are approaching pre-pandemic levels

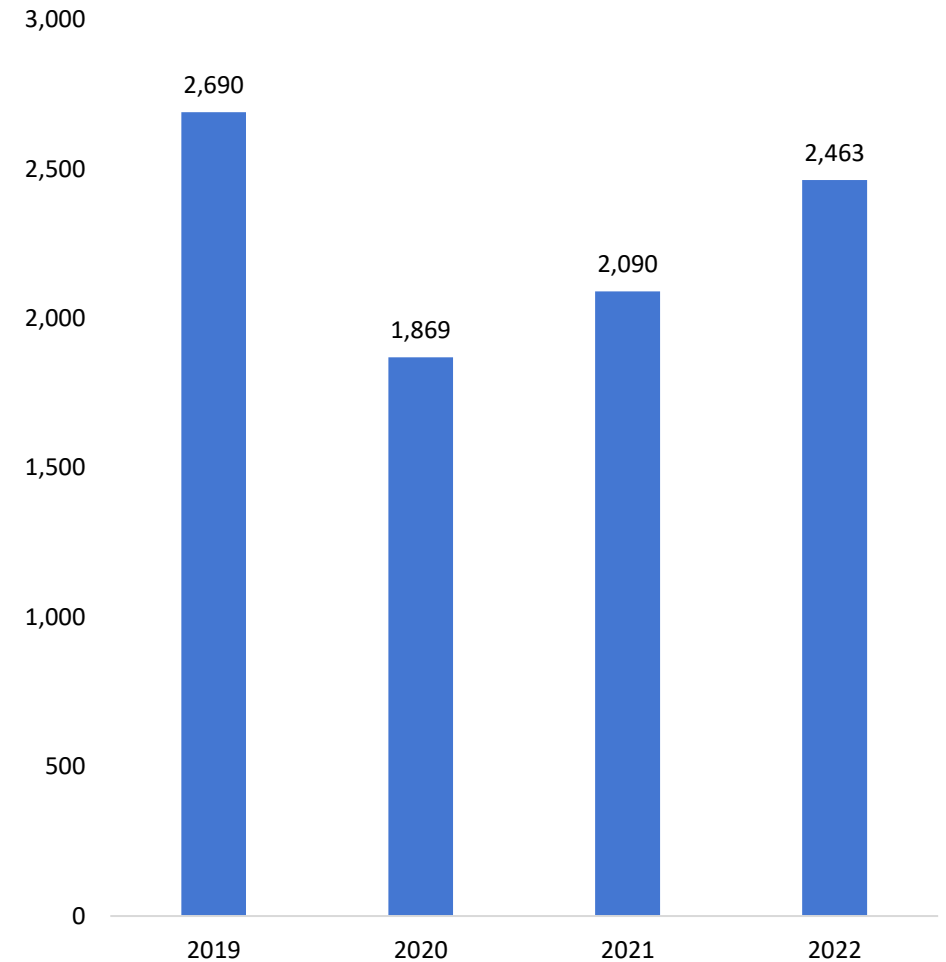
Legislative and climate goals

- Double the pace of home weatherization, including increasing low-income residential units per year
- Weatherized over 9,000 dwellings since 2019

Additional funding from MJRP

- \$25 million from the Maine Jobs and Recovery Plan to Efficiency Maine for home weatherization specifically targeted at low- to moderate-income dwellings in the state

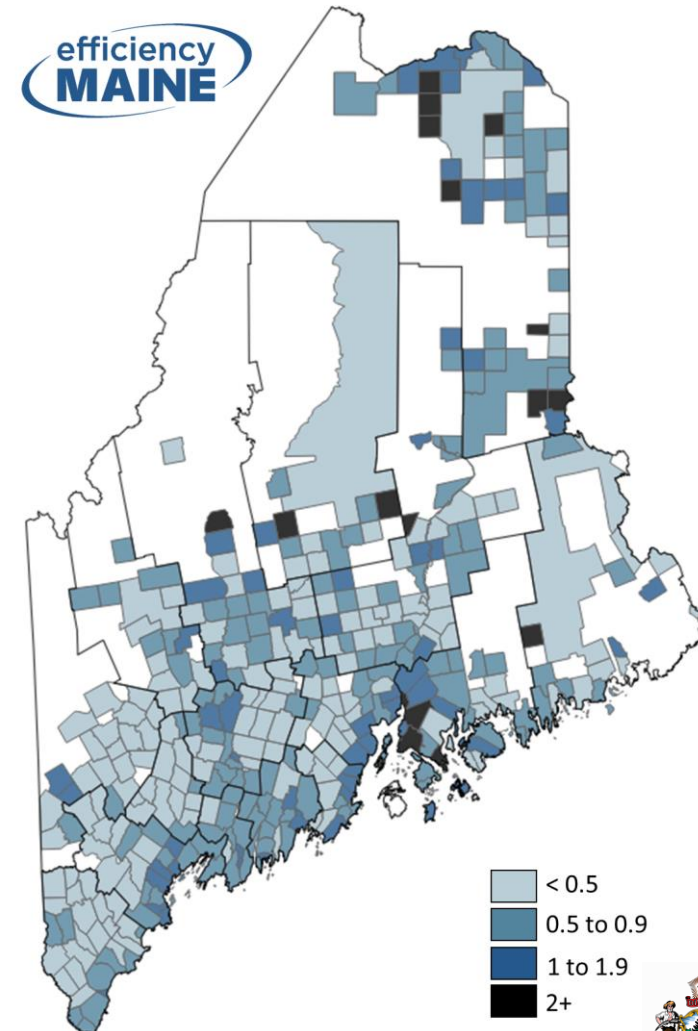
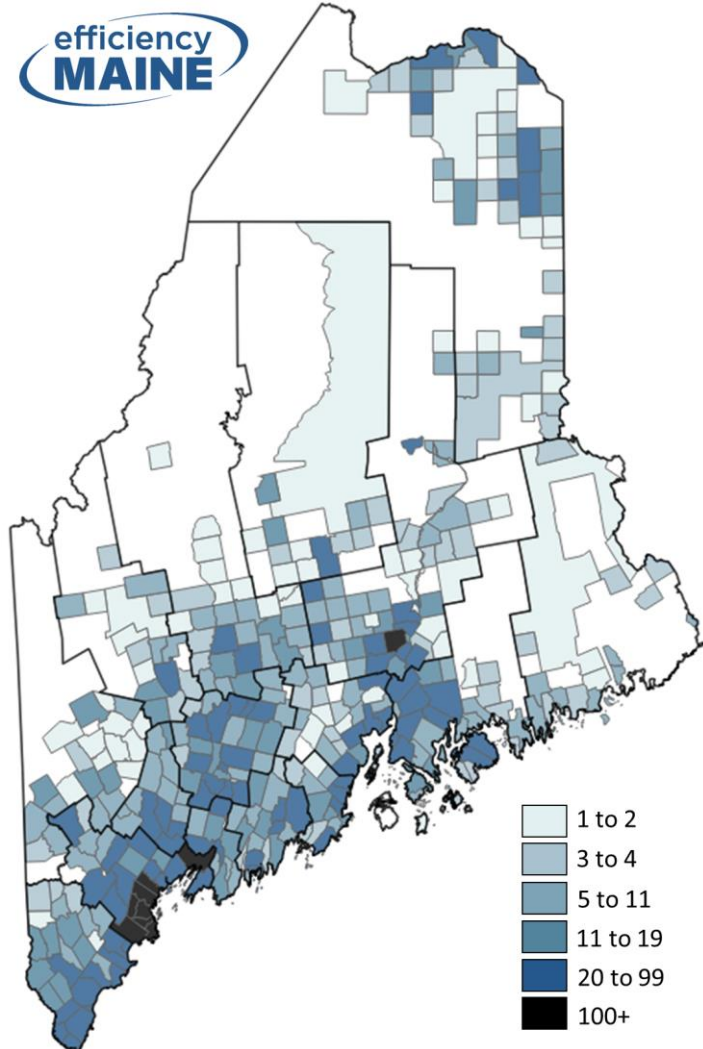
Annual Weatherization Projects, Maine



Energy Efficiency: Weatherization

Left: Weatherization improvements rebated from 7/1/2020 to 6/30/2022

Right: Weatherization improvements rebated per 100 population from 7/1/2020 to 6/30/2022



Energy Efficiency: Heat Pumps

Maine is leading in heat pump installation rates

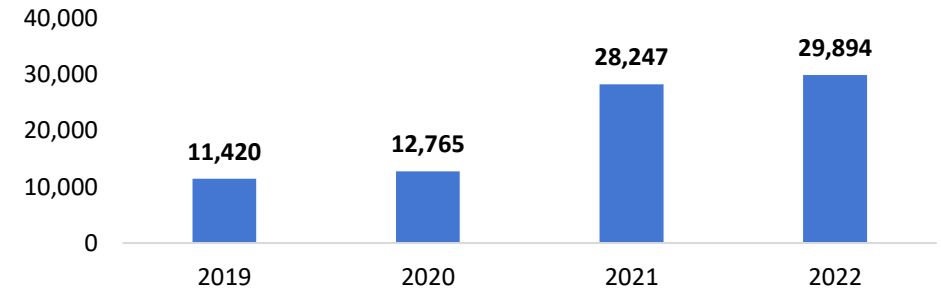
Legislative and climate goals

- Installation of 100,000 new heat pumps by 2025 with at least 15,000 heat pumps provided to income-eligible households
- Installed more than 82,000 new heat pumps since 2019, Efficiency Maine + MaineHousing

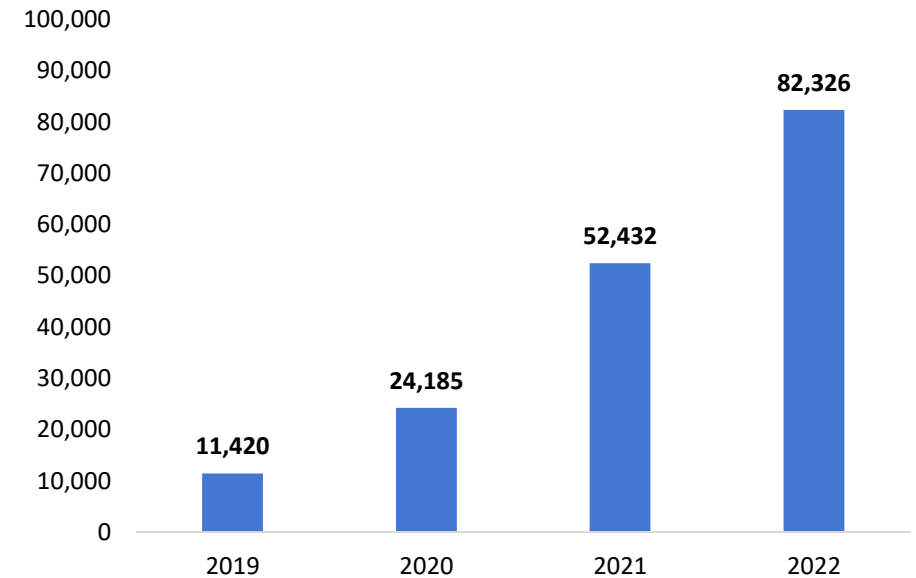
Reduction in oil dependence

- 82,325 heat pumps is equivalent to:
 - More than 2,000,000 MMBtu offset per year
 - More than 350,000 barrels of oil per year
 - More than 15,000,000 gallons of oil per year

Annual Heat Pump Installations, Maine



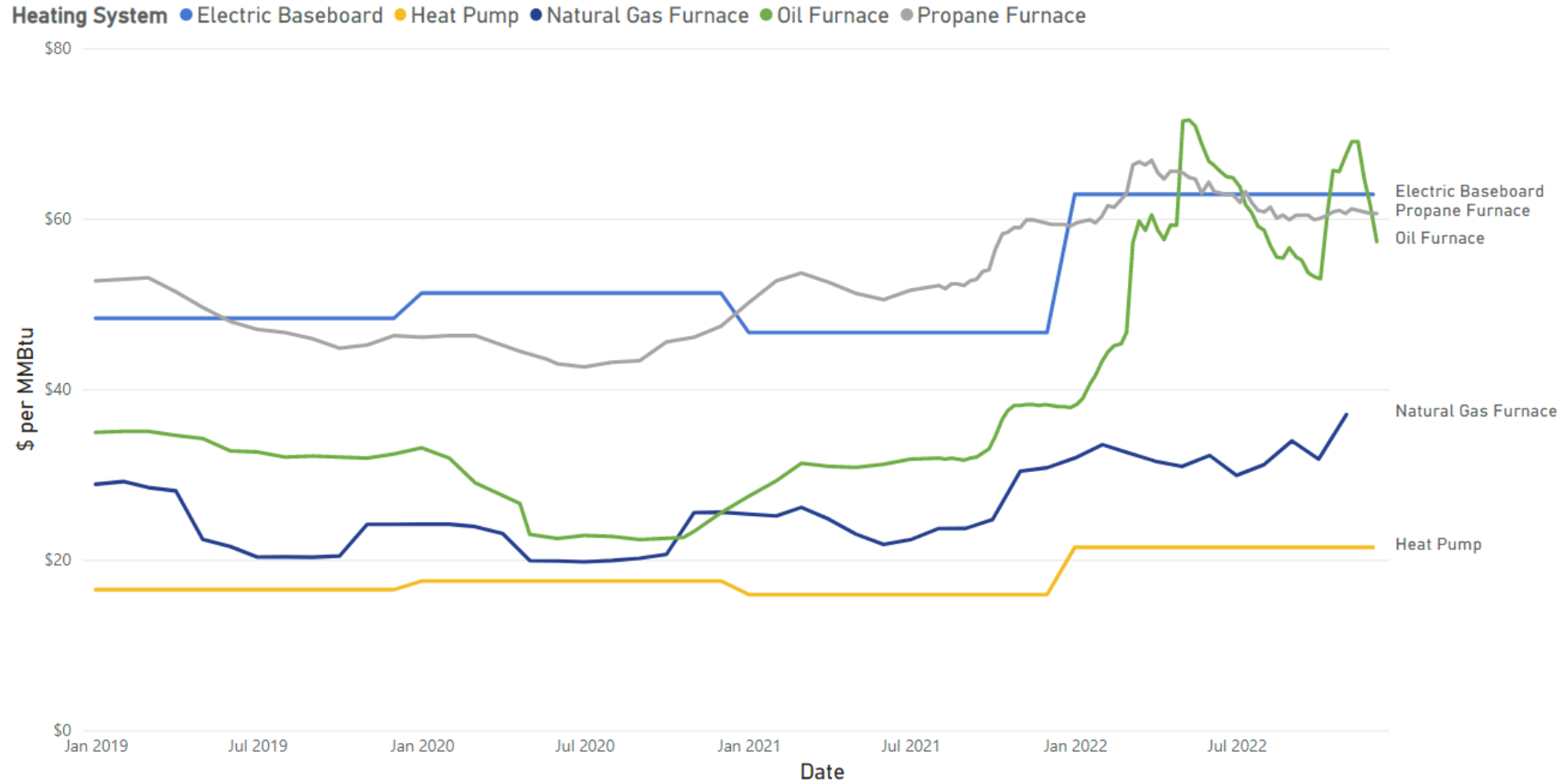
Cumulative Heat Pump Installation, Maine



Energy Efficiency: Heat Pumps

Heat pumps are highly efficient and cost-effective

Price comparison of common heating systems (Maine; 2019 to 2022)

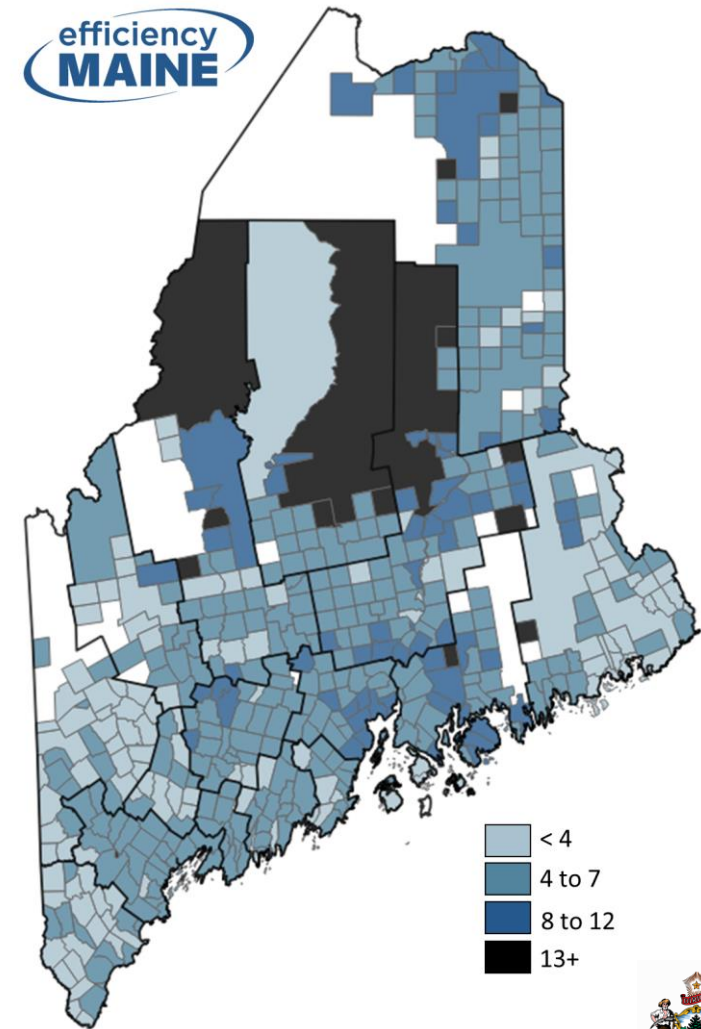
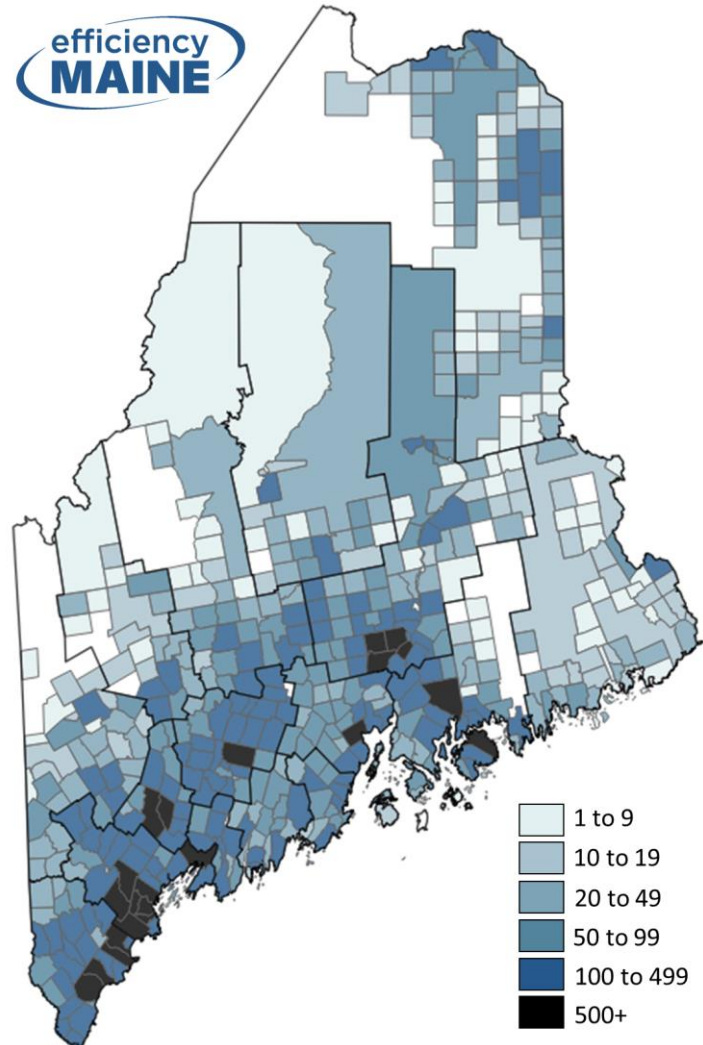


Note: Chart does not compare specific systems or models but utilizes typical system efficiencies for heating cost comparison purposes.

Energy Efficiency: Heat Pumps

Left: Heat pumps rebated from 7/1/2020 to 6/30/2022

Right: Heat pumps rebated per 100 population from 7/1/2020 to 6/30/2022



Energy Efficiency

Heat Pump Water Heaters and Building Codes



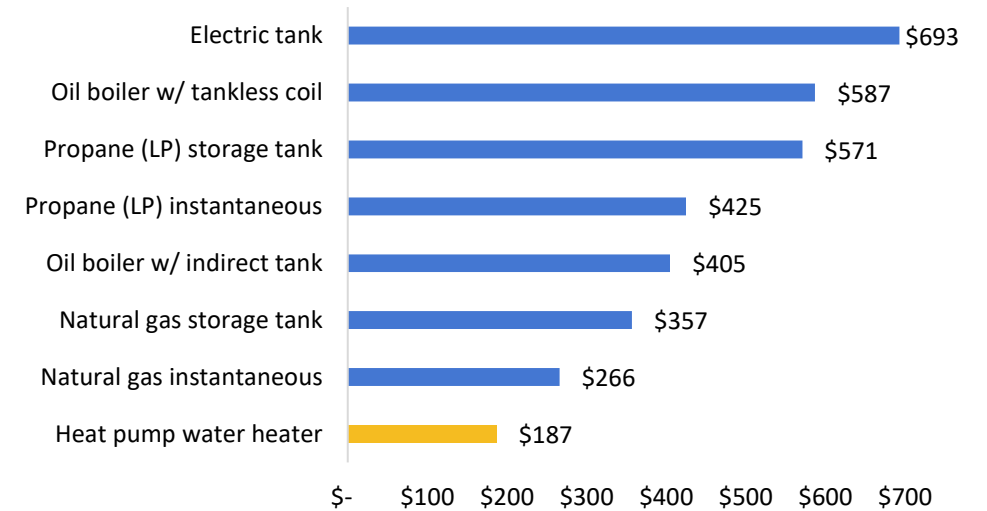
Heat pump water heaters

- Over 40,000 heat pump water heaters installed since 2018
- Efficiently provide hot water, help dehumidify, Efficiency Maine rebates

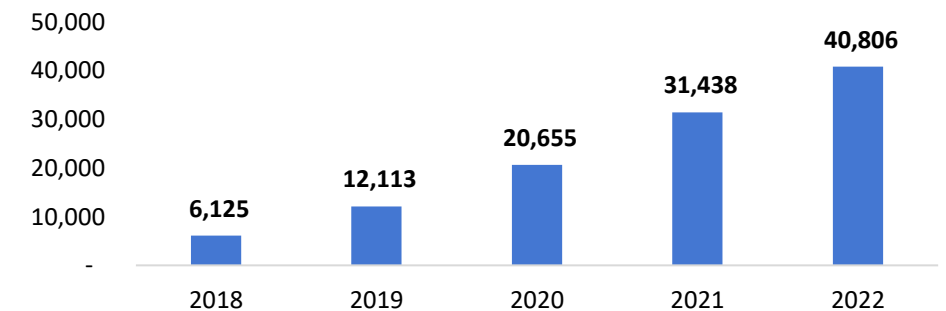
Building Codes

- The Maine Uniform Building and Energy Code (MUBEC) is the statewide building and energy code:
 - International Code Council (ICC)
 - ASHRAE
- Current is 2015, reviewing ICC 2021

Annual Water Heating Costs, Maine



Cumulative Heat Pump Water Heater Installations, Maine (2019-2022)



Federal Funding

This Bipartisan Infrastructure Law (BIL)

- This Bipartisan Infrastructure Law will rebuild America's roads, bridges and rails, expand access to clean drinking water, ensure every American has access to high-speed internet, tackle the climate crisis, advance environmental justice, and invest in communities that have too often been left behind.

The Inflation Reduction Act (IRA)

- The Inflation Reduction Act (IRA) of 2022 makes the single largest investment in climate and energy in American history, enabling America to tackle the climate crisis, advancing environmental justice, securing America's position as a world leader in domestic clean energy manufacturing, and putting the United States on a pathway to achieving the Biden Administration's climate goals, including a net-zero economy by 2050.



Getting Involved

Seek energy efficiency opportunities

- <https://www.maine.gov/energy/initiatives/energy-efficiency>
- <https://www.energymaine.com/>
- <https://www.mainehousing.org/>
- Contact
 - Ross Anthony
Buildings and Energy Efficiency Analyst, GEO
ross.anthony@maine.gov

Join the Community Resiliency Partnership

- <https://www.maine.gov/future/climate/community-resilience-partnership>
- See what your peers in the state are doing: https://www.maine.gov/future/sites/maine.gov/future/files/inline-files/CRP%20Awards%20Summary_Fall2022.pdf
- Next round opens in Spring 2023
- Contact
 - Brian Ambrette
Senior Climate Resilience Coordinator
brian.ambrette@maine.gov



Thank You

Ross Anthony
Buildings and Energy Efficiency Analyst
ross.anthony@maine.gov

www.maine.gov/energy