

US Green Economy Report Series

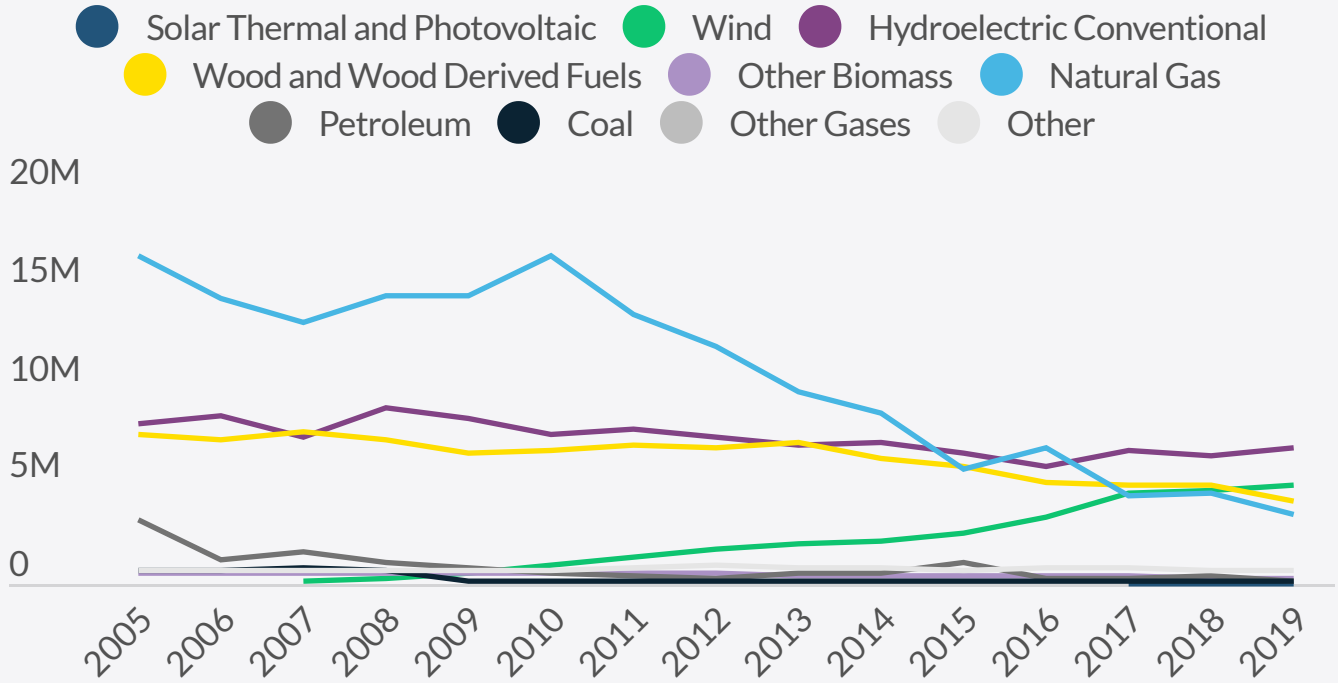
Case Study - Maine

Maine has increased renewables energy generation for more than two decades and significantly increased its ambition on climate change in the past couple of years. The vulnerability of the state's coast to climate change threats has also contributed to the urgency for climate action. Through legislation signed into law by Governor Janet Mills in 2019 Maine targets 80 percent renewables in its electricity sector by 2030, with a goal of 100 percent by 2050. This 2019 legislation also established the Maine Climate Council, a diverse group of stakeholders responsible for releasing a plan every four years (the first was in December 2020) to meet the state's emissions-reduction targets of 45 percent below 1990 levels by 2030 and 80 percent by 2050. Another initiative, an Executive Order signed by Governor Mills, set a goal of carbon neutrality by 2045. Governor Mill's push for climate action holds bipartisan support; which bodes well for implementing the state's climate plan. Maine is a member of the US Climate Alliance and the Regional Greenhouse Gas Initiative (RGGI), a market-based programme to reduce emissions in the power sector.

NEAR-TERM OPPORTUNITIES: STATE OUTLOOK BY TECHNOLOGY

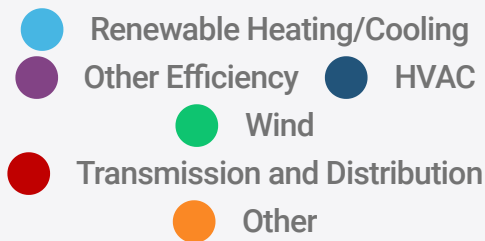
Technology	Overview	Outlook
Offshore Wind	If approved, Maine's NEAV project will likely be the first full-scale floating wind project in the nation.	
Green Consultancy	Given the Maine's aggressive policies, particularly in offshore wind, this sector should grow above the national average.	
Electric Vehicles	Maine ranks 17th nationally on the ACEEE EV Scorecard and 22 percent of all vehicles sold must be ZEVs by 2025.	
Energy Efficiency	Maine is ranked 16th nationally on ACEEE's 2020 State Energy Efficiency Scorecard and a moderate outlook for growth.	
Grid Modernisation	Maine ranks joint-26th nationally in the 2018 Grid Modernization Index and an average growth outlook.	
Energy Storage	Maine has no procurement targets for energy storage but has demonstrated some efforts to stimulate growth.	
Waste To Energy	Maine is ranked 43rd for biogas production potential but 25 percent of the state's electricity generation comes from biomass.	
Hydrogen	Maine's difficulty integrating renewable energy to its grid presents opportunities for hydrogen.	
CCUS	There are no major CCUS policies, incentives or projects in the state.	

ELECTRICITY GENERATION BY SOURCE IN MW (EIA)



CLEAN ENERGY JOBS

Top Five Sectors (2019)



2021 - 2025 JOBS PROJECTIONS

Full-Time Employee (FTE) Adds



2,643-7,070

Energy Efficiency FTEs Added



25 - 401

Energy Storage FTEs Added



458

Clean Vehicles FTEs Added



0-64

Offshore Wind FTEs Added

14,510 clean energy jobs (2019), **2.27%** of total state jobs