

US Green Economy Report Series

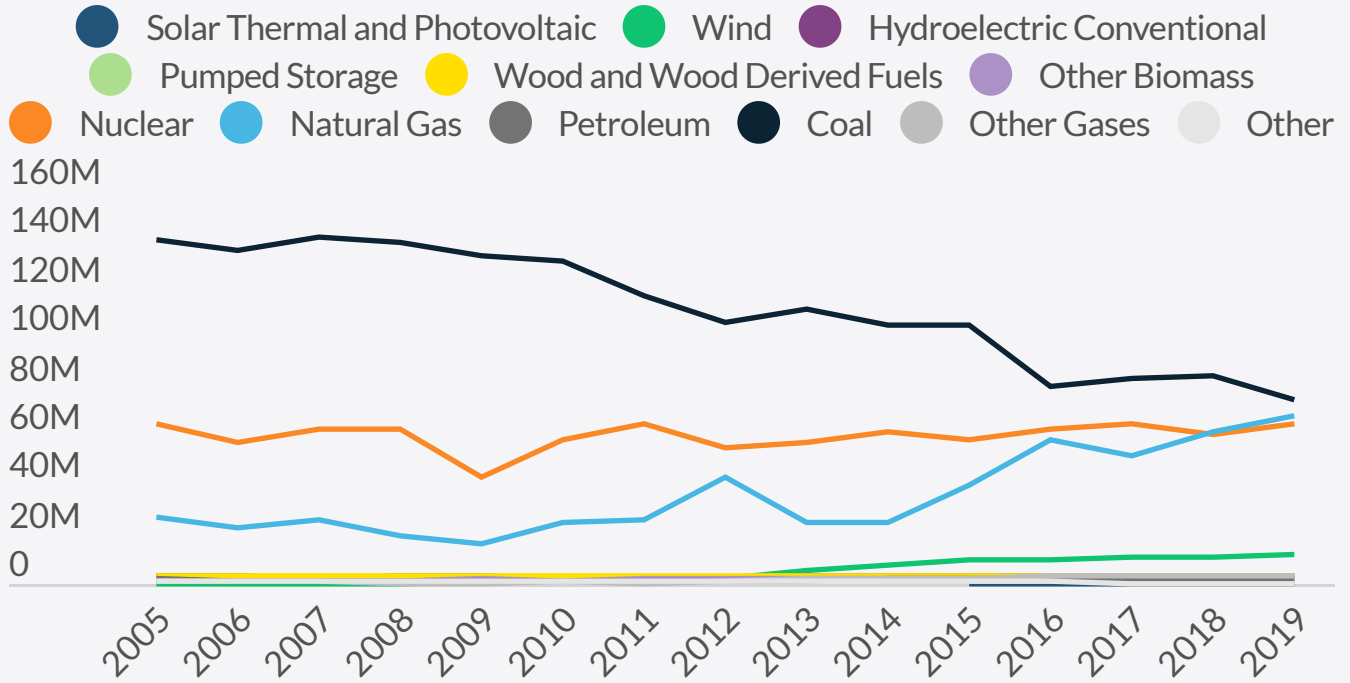
Case Study - Michigan

Michigan's climate action has increased significantly since Governor Gretchen Whitmer took office in January 2019. She established emissions-reductions targets through Executive Orders, brought the state into the US Climate Alliance and started an office to coordinate state-wide climate response activities. In September 2020, Governor Whitmer committed to a carbon-neutral economy by 2050, with an interim goal of 28 percent emissions reductions of 1990 levels by 2025. Governor Whitmer has tasked the Michigan Department of Environment, Great Lakes and Energy with building a strategy to reach the carbon-neutral goal. The new Office of Climate and Energy also provides state agencies with guidance to address climate change in their activities. The state's clean energy target lags behind others, aiming for 15 percent renewables in the electricity sector by 2021. However, Michigan is the home of Detroit, whose potential for EV manufacturing and assembly has enormous growth potential.

NEAR-TERM OPPORTUNITIES: STATE OUTLOOK BY TECHNOLOGY

Technology	Overview	Outlook
Offshore Wind	Michigan's offshore wind industry has lagged expectations, due to lower-cost onshore wind and solar options.	
Green Consultancy	Michigan has 2,550 environmental consultants and has a modest outlook for renewable energy growth.	
Electric Vehicles	As a hub for auto manufacturing, Michigan leads the country in EV production.	
Energy Efficiency	Michigan ranks 13th nationally on ACEEE's 2020 State Energy Efficiency Scorecard and has a positive outlook for growth.	
Grid Modernisation	Michigan ranks joint-11th nationally in the 2018 Grid Modernization Index based on state policies and investment.	
Energy Storage	Michigan has demonstrated limited efforts to stimulate energy storage growth.	
Waste To Energy	Michigan is ranked 15th for biogas production potential and offers tax exemptions for alternative fuel development.	
Hydrogen	Michigan lacks strong incentives but has made progress on investment and research.	
CCUS	Michigan's clean energy standard allows for "advanced cleaner energy systems," but there is no other legislation on the horizon.	

ELECTRICITY GENERATION BY SOURCE IN MW (EIA)



CLEAN ENERGY JOBS

Top Five Sectors (2019)



2021 - 2025 JOBS PROJECTIONS

Full-Time Employee (FTE) Adds



6,964-25,205

Energy Efficiency FTEs Added



1,897

Energy Storage FTEs Added



14,474

Clean Vehicles FTEs Added

153,386 clean energy jobs (2019), **3.47%** of total state jobs