


US Green Economy Report Series

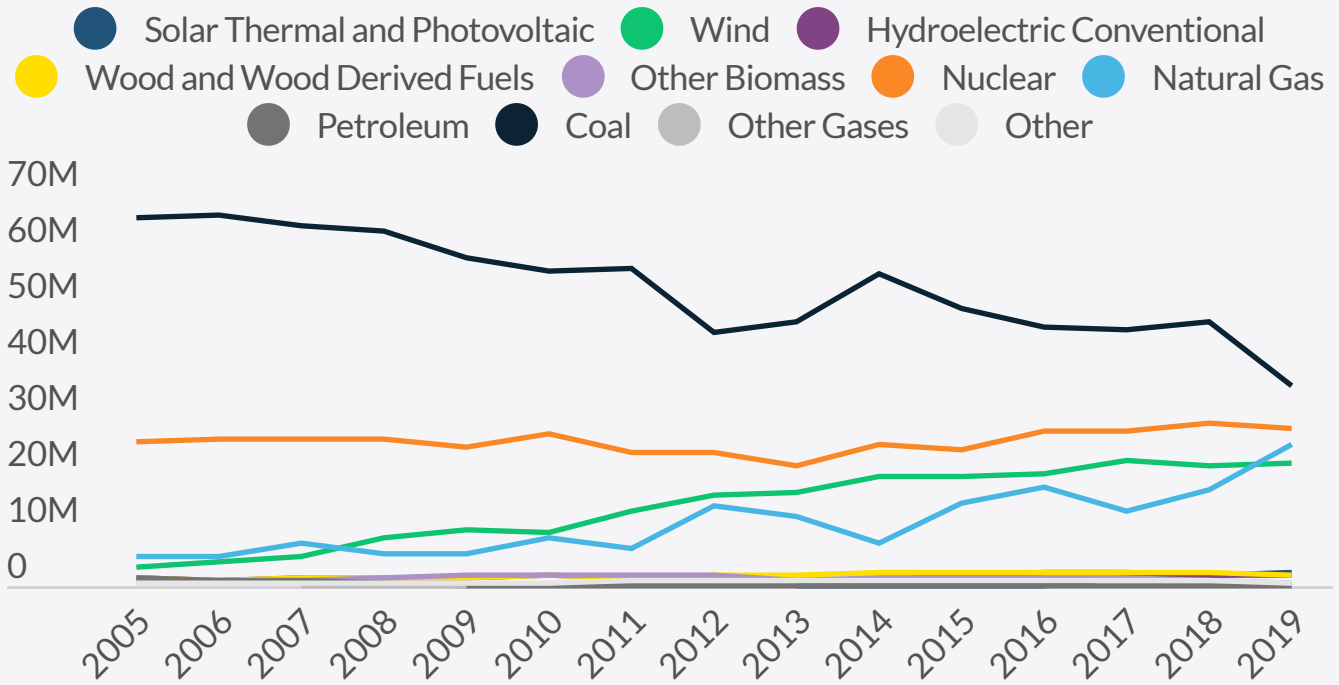
Case Study - Minnesota

Minnesota has been integrating renewables into its energy mix for more than a decade, in large part thanks to the state's renewable targets and harnessing its natural resources. Minnesota's goal of 25 percent renewables by 2025, established in 2007 and already achieved, has supported the growth of wind and solar in the state. Minnesota, a member of the US Climate Alliance, has an emissions-reduction target of 30 percent below 2005 levels by 2025 and 80 percent by 2050. In 2019, wind accounted for 19 percent of the state's electricity generation, and Minnesota is aiming for 10 percent solar by 2030. In the transportation sector, Minnesota has been aggressive in promoting corn-based ethanol, making it one of the top 5 producers in the country. Governor Tim Walz wants Minnesota to build on the state's recent renewable successes by requiring utilities to source from only clean energy sources by 2050, a vision he articulated in a set of proposals released in 2019 called One Minnesota Path to Clean Energy. Passing and implementing comprehensive clean energy legislation has been hampered by a split state legislature - Democrats control the House and Republicans control the Senate.

NEAR-TERM OPPORTUNITIES: STATE OUTLOOK BY TECHNOLOGY

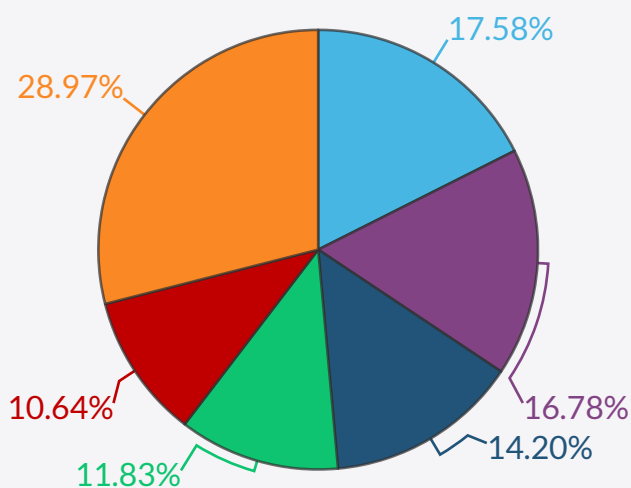
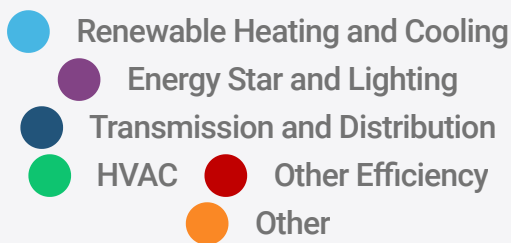
Technology	Overview	Outlook
Green Consultancy	Minnesota has 1,700 environmental consultants and a strong growth outlook with the state's renewable energy potential.	
Electric Vehicles	Minnesota is ranked 12th according to the ACEEE EV Scorecard and has multiple pilot projects to support the sector.	
Energy Efficiency	Minnesota ranks 9th nationally on ACEEE's 2020 State Energy Efficiency Scorecard and 121 financial incentives.	
Grid Modernisation	Minnesota ranks 10th in the 2018 Grid Modernization Index and has a strong policy and investment outlook.	
Energy Storage	Minnesota has demonstrated limited efforts to stimulate energy storage growth and has no procurement targets.	
Waste To Energy	Minnesota is ranked 8th for biogas production potential and produces eight percent of the nation's ethanol.	
Hydrogen	The state has no strong policies for hydrogen but private sector investment and federal pilot projects show promise.	
CCUS	Minnesota has no strong policies for CCUS but has two ongoing projects and recent studies show potential for industrial uses.	

ELECTRICITY GENERATION BY SOURCE IN MW (EIA)



CLEAN ENERGY JOBS

Top Five Sectors (2019)



2021 - 2025 JOBS PROJECTIONS

Full-Time Employee (FTE) Adds



5,521-5,998

Energy Efficiency FTEs Added



1,883

Energy Storage FTEs Added



1,971

Clean Vehicles FTEs Added

75,431 clean energy jobs (2019), **2.55%** of total state jobs