



US Green Economy Report Series

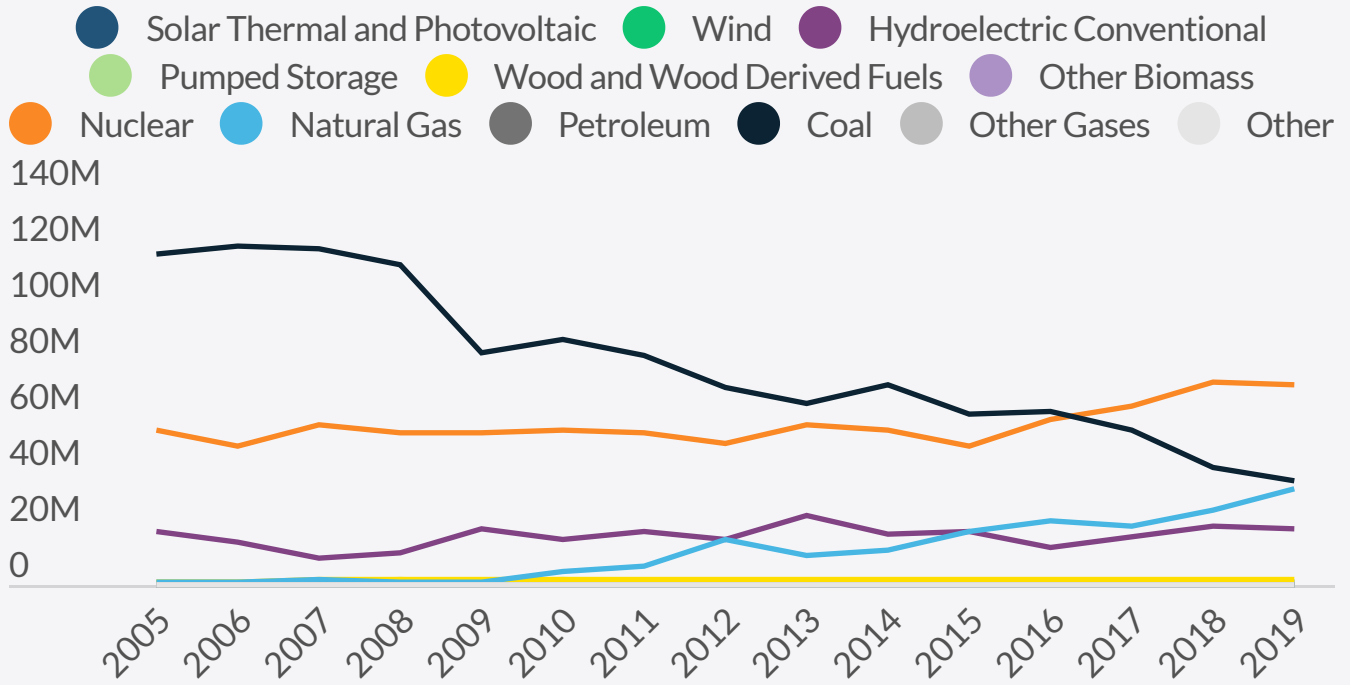
Case Study - Tennessee

Tennessee does not have a comprehensive climate plan, nor has it seen a significant renewable power generation. Nuclear power dominates the state's electricity generation, followed by natural gas and coal. Hydroelectric power accounts for most of Tennessee's renewable energy. The Tennessee Valley Authority, a federally owned corporation established during the Great Depression, owns an overwhelming majority of the state's generation capacity. Although Tennessee has not taken wide-ranging steps to respond to climate threats through adaptation and resilience measures, it faces a variety of risks such as flooding, droughts, wildfires and higher temperatures. With Republicans in control of state government, ambitious climate change action will not likely be a priority in the near term. At the same time, however, some cities in Tennessee have announced aggressive climate goals and sustainability agendas. For instance, Knoxville looks to cut GHG emissions by 50 percent by 2030 and 80 percent by 2050, while the Memphis area has an action plan to reduce emissions by 71 percent by 2050.

NEAR-TERM OPPORTUNITIES: STATE OUTLOOK BY TECHNOLOGY

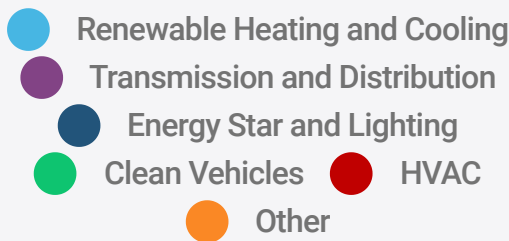
Technology	Overview	Outlook
Green Consultancy	Tennessee has 1,400 environmental consultants	
Electric Vehicles	Tennessee is ranked 20th nationally according to the ACEEE EV Scorecard but has no state level incentives for purchasing EVs.	
Energy Efficiency	Tennessee is ranked 29th nationally on ACEEE's 2020 State Energy Efficiency Scorecard and limited policies to incentivise the sector.	
Grid Modernisation	Tennessee ranks 41st nationally in the 2018 Grid Modernization Index but 86 percent of customers use smart meters.	
Energy Storage	Tennessee has no battery energy storage demonstrated limited efforts to stimulate growth.	
Waste To Energy	Tennessee ranks 24th nationally for biogas production potential and has several policies to support the use of biofuels.	
Hydrogen	Tennessee is a hub for research, development and production for hydrogen led by the private sector and academia.	
CCUS	Tennessee has no policies in place to encourage the development of carbon capture projects.	

ELECTRICITY GENERATION BY SOURCE IN MW (EIA)



CLEAN ENERGY JOBS

Top Five Sectors (2019)



2021 - 2025 JOBS PROJECTIONS

Full-Time Employee (FTE) Adds



6,484-14,427

Energy Efficiency FTEs Added



31-741

Energy Storage FTEs Added



6,225

Clean Vehicles FTEs Added

100,411 clean energy jobs (2019), **3.29%** of total state jobs