

US Green Economy Report Series

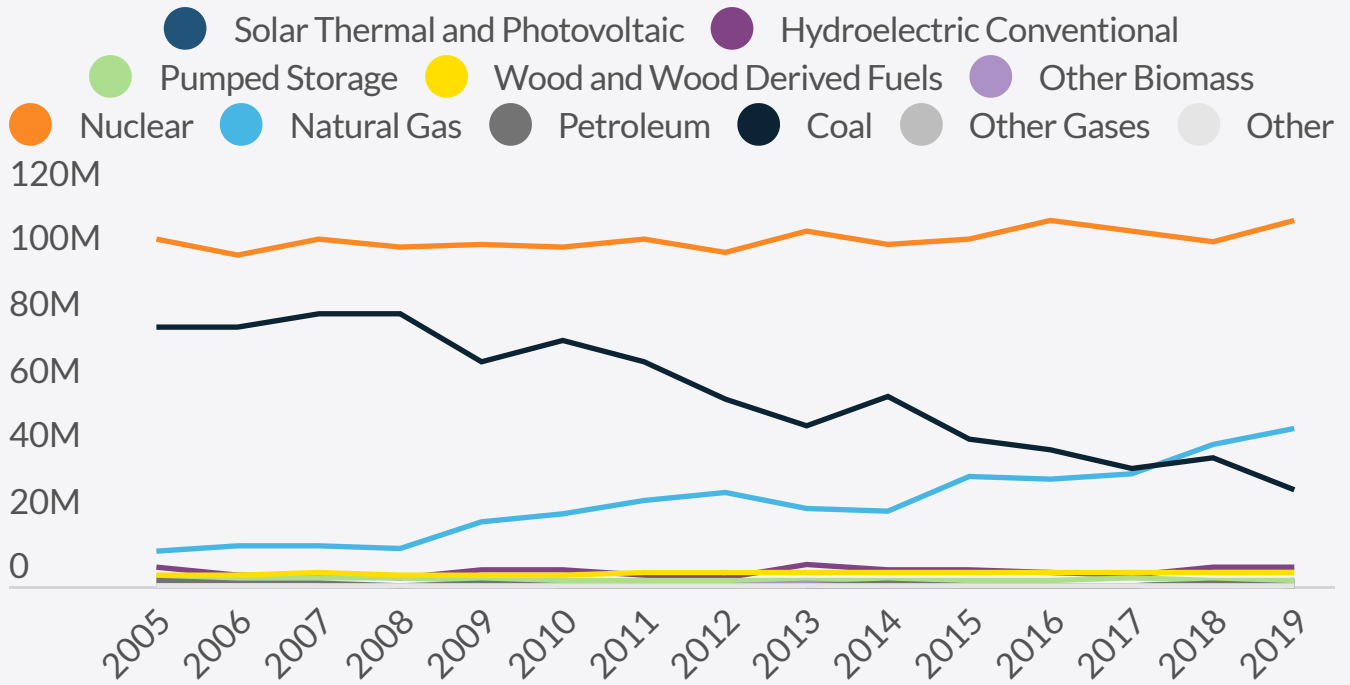
Case Study - South Carolina

South Carolina does not have a comprehensive climate agenda as the Republicans who currently dominate state politics have not prioritised the issue. That is in contrast to former Republican Governor Mark Sanford, who signed an executive order in 2007 to establish a task force to address climate change in the state. The current governor, Republican Henry McMaster, has signed legislation that helped expand access to solar, established a commission to deal with flooding and invested in clean public buses. However, he has not signalled that he would back a renewable portfolio standard or wide-ranging adaptation and resilience measures. The major utilities in the state, Dominion and Santee Cooper own nuclear power, which makes up almost 60 percent of the state's electricity generation. The two utilities had planned to invest \$9 billion into building new nuclear plants but abandoned the projects. Only a small portion of electricity generation comes from hydroelectric power, solar and biomass. Some cities in the state, however, such as Charleston, have put together long-term plans to mitigate climate risks and to cut emissions.

NEAR-TERM OPPORTUNITIES: STATE OUTLOOK BY TECHNOLOGY

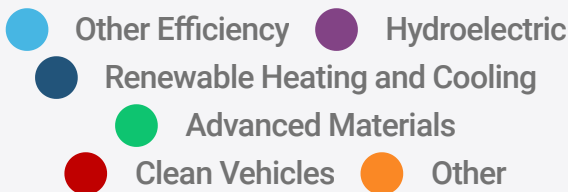
Technology	Overview	Outlook
Offshore Wind	South Carolina does not currently have any projects planned but feasibility is being studied.	
Green Consultancy	South Carolina has 330 environmental consultants and should grow with the state's modest renewable energy potential.	
Electric Vehicles	South Carolina is unranked according to the ACEEE EV Scorecard, indicating low level of progress	
Energy Efficiency	South Carolina ranks 40th nationally on ACEEE's 2020 State Energy Efficiency Scorecard and lacks strong policy support.	
Grid Modernisation	South Carolina ranks joint-34th nationally in the 2018 Grid Modernization Index and should see modest growth.	
Energy Storage	South Carolina has 4 MW of energy storage and has demonstrated limited effort to stimulate growth.	
Waste To Energy	South Carolina ranks 28th nationally for biogas production potential and two percent of its electricity comes from biomass.	
Hydrogen	South Carolina is a hub for research and development for hydrogen fuel cells and electricity.	
CCUS	South Carolina has no policies in place to stimulate the development of carbon capture projects.	

2019 ELECTRICITY GENERATION BY SOURCE IN MW (EIA)



CLEAN ENERGY JOBS

Top Five Sectors (2019)



2021 - 2025 JOBS PROJECTIONS

Full-Time Employee (FTE) Adds



9,959-11,432

Energy Efficiency FTEs Added



2,725

Energy Storage FTEs Added



3,468

Clean Vehicles FTEs Added

62,734 clean energy jobs (2019), **2.53%** of total state jobs