

US Green Economy Report Series

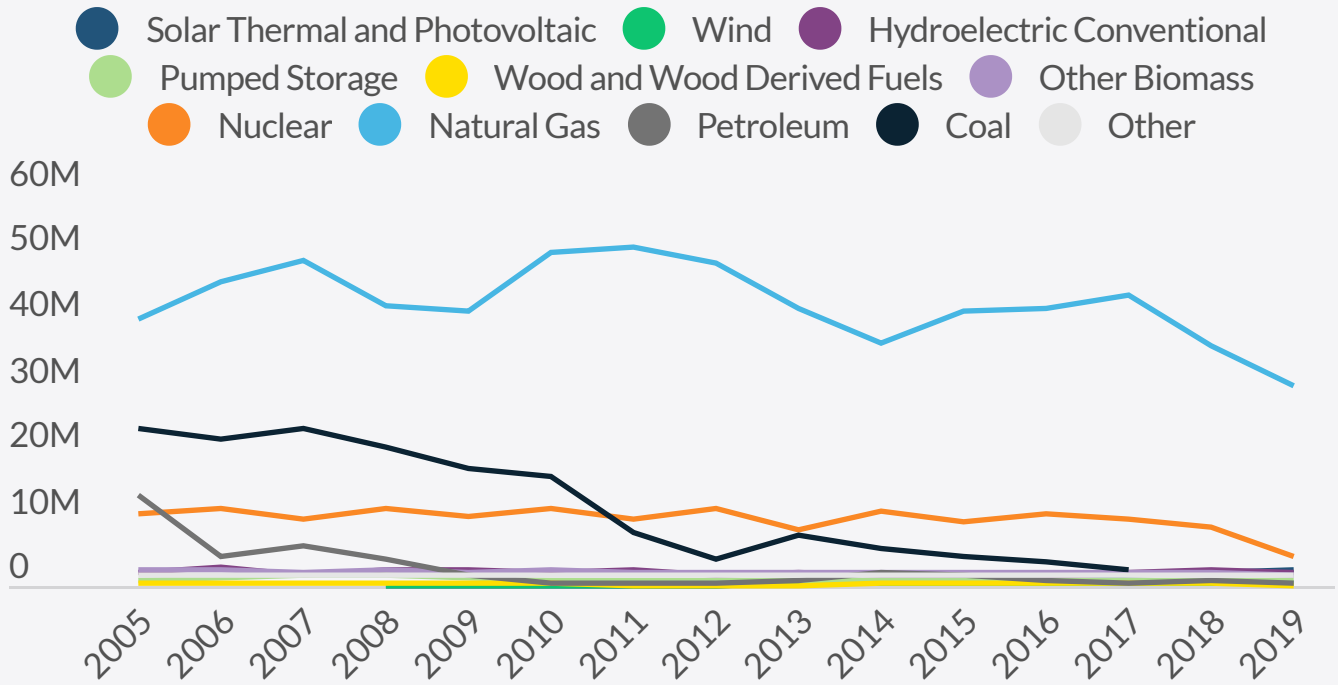
Case Study - Massachusetts

Massachusetts has continually increased its climate ambitions in recent years despite having a split government. The state's governor, Republican Charlie Baker, has worked with the Democratic legislature to support an increase in renewables and also mitigate climate threats through resiliency and adaptation projects. Governor Baker also recently signed legislation making the statewide emissions target net-zero by 2050. The state ranked 8th in the country in solar photovoltaic generating capacity and solar power production at the end of 2019, and it has also set specific targets for hydroelectric power, offshore wind and energy storage. The 2018 State Hazard Mitigation and Climate Adaptation Plan, which was the first of a kind in the United States and established by executive order, outlines how the state will tackle long-term risks such as flooding, coastal erosion, droughts, wildfires, extreme temperatures and other threats. Massachusetts passed a new law in 2021 setting a net-zero mandate by 2050, with interim targets of 50 percent and 75 percent reductions by 2030 and 2040 respectively.

NEAR-TERM OPPORTUNITIES: STATE OUTLOOK BY TECHNOLOGY

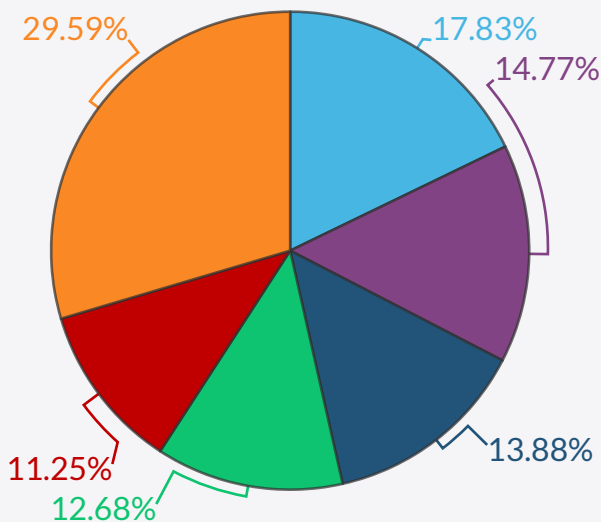
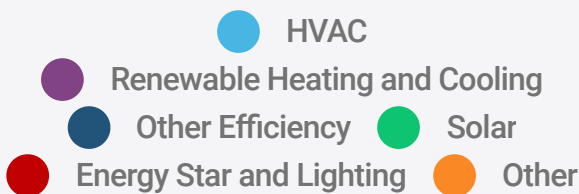
Technology	Overview	Outlook
Offshore Wind	Massachusetts has an offshore wind procurement target of 3,200 MW by 2035.	
Green Consultancy	Massachusetts has 1,720 environmental consultants and should see modest growth under its renewable energy targets.	
Electric Vehicles	Massachusetts has an extensive list of initiatives, the cornerstone of which is the ZEV standard.	
Energy Efficiency	Massachusetts ranks 2nd nationally on ACEEE's 2020 State Energy Efficiency Scorecard.	
Grid Modernisation	Massachusetts ranks joint-11th in the 2018 Grid Modernization Index and strong policy and investment outlook.	
Energy Storage	Massachusetts has 237.7 MW of battery storage projects planned.	
Waste To Energy	Massachusetts is ranked 34th for biogas production potential and requires the use of biodiesel in all diesel-powered vehicles.	
Hydrogen	Hydrogen technologies are limited in Massachusetts but there is potential for it to integrate with renewable energy.	
CCUS	Massachusetts has potential to be a national leader in CCUS but no policy framework.	

ELECTRICITY GENERATION BY SOURCE IN MW (EIA)



CLEAN ENERGY JOBS

Top Five Sectors (2019)



2021 - 2025 JOBS PROJECTIONS

Full-Time Employee (FTE) Adds



12,572-19,411

Energy Efficiency FTEs Added



2,539-6,898

Energy Storage FTEs Added



2,800

Clean Vehicles FTEs Added



4,293-15,027

Offshore Wind FTEs Added

133,190 clean energy jobs (2019), **3.61%** of total state jobs