

National Market Overview

Maintaining Impactful State Renewable Energy Markets September 18, 2024

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Database of State Incentives for Renewables and Efficiency

www.nccleantech.ncsu.edu



Our Work

- Energy Policy
- Clean Energy Training
- Clean Transportation
- Clean Power & Industrial Efficiency
- Renewable Energy







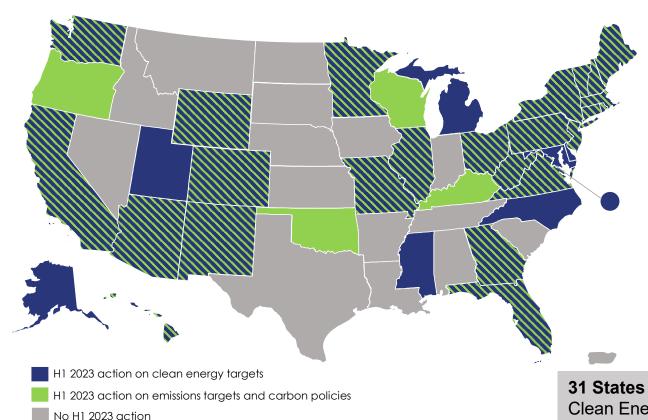
Energy Policy & Markets

The Center conducts objective research and analysis and provides education and technical assistance on energy policy issues nationwide. Our Policy Team tracks developments and examines the impacts on clean energy technologies. Projects include:

- Database of State Incentives for Renewables
 & Efficiency (DSIRE)
- DSIRE Insight
- The 50 States Reports
- Customized research & analysis



H1 2024 Action on Power Decarbonization Requirements



NC CLEAN ENERGY
TECHNOLOGY CENTER

31 States + DC took action onClean Energy Targets28 States took action on EmissionTargets and Carbon Polices

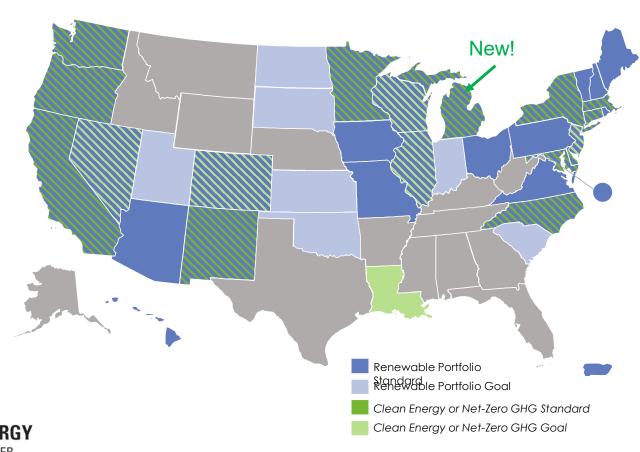
H1 2024 Major Actions on Power Decarbonization Requirements

- AZ considering repeal of RPS
- CO limited eligible technologies
 - Governor vetoed bill
- CT, MI, VT changed existing RPS targets
- DC, VT made changes to RPS compliance rules
- MI established CES
- NC settlement agreement for proposed Duke green tariff
- NJ changed solar targets

- NM began rulemaking on emission reduction ambiguities
- NY, RI changed storage targets
- OH resolution encouraged federal EPA to withdraw new coal/gas emission rules
- VA, VT expanded eligible technologies
- WA amended carbon market rules, linked with California-Quebec market
 - Pending ballot initiative would prohibit carbon cap & trade



State Clean and Renewable Energy Targets (August 2024)





100% Clean Energy or Net-Zero Electricity Sector Emissions

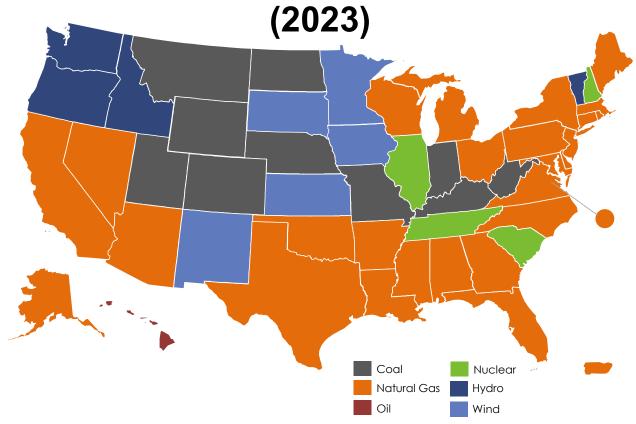
Targets (August 2024)





23 States + DC, PR have 100% clean energy or net-zero electricity emissions targets

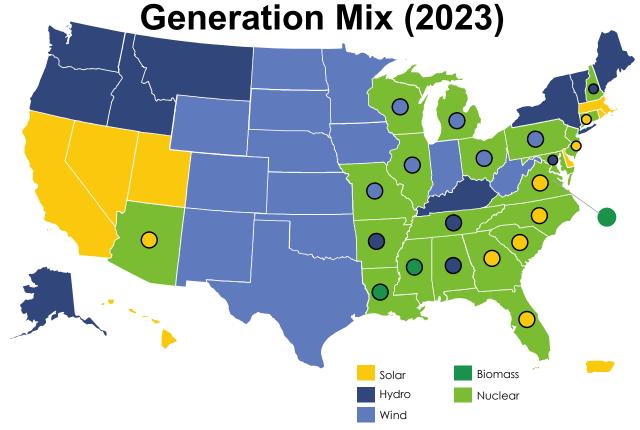
Greatest Contributing Resource to State Generation Mix





Data Source: U.S. EIA – Electric Power Monthly, Net Generation by State by Type of Producer by Energy Source (Jan. – Dec. 2023).

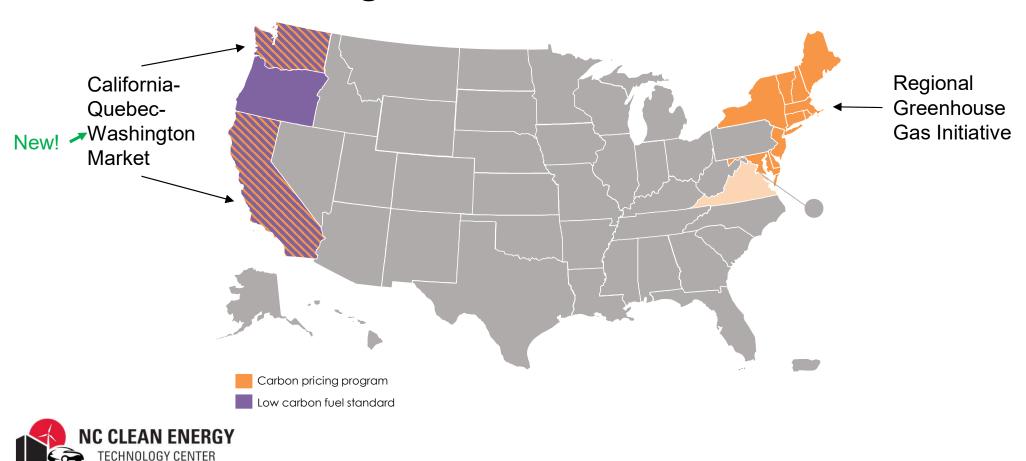
Greatest Contributing Clean/Renewable Resource to State



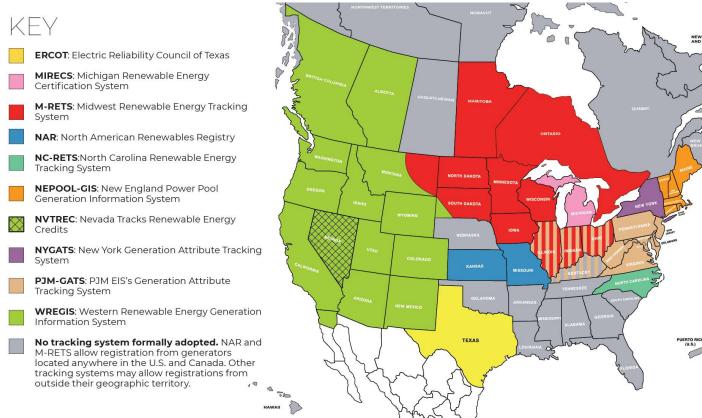


Data Source: U.S. EIA – Electric Power Monthly, Net Generation by State by Type of Producer by Energy Source (Jan. – Dec. 2023). Map represents percent of total MWh generated in each state from clean energy sources (nuclear, hydroelectric, solar, wind, biomass, geothermal).

Carbon Pricing and Low Carbon Fuel Standards



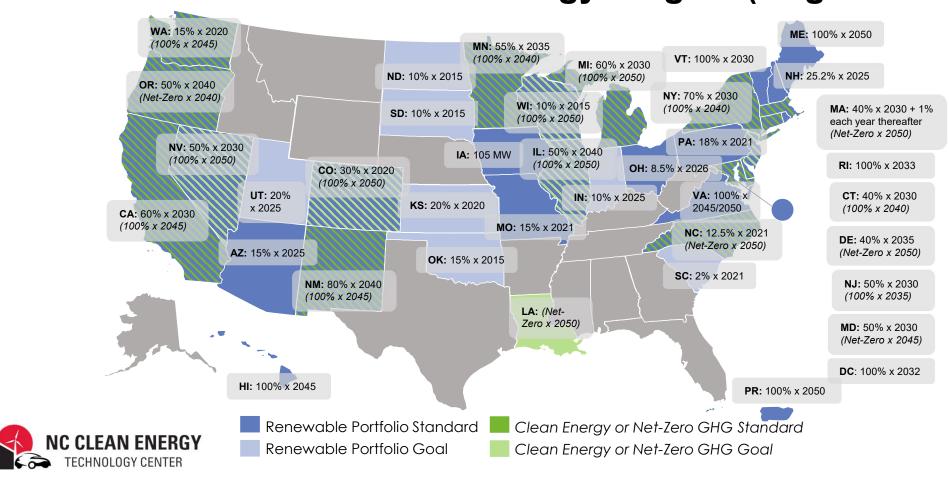
REC Tracking Systems in North America



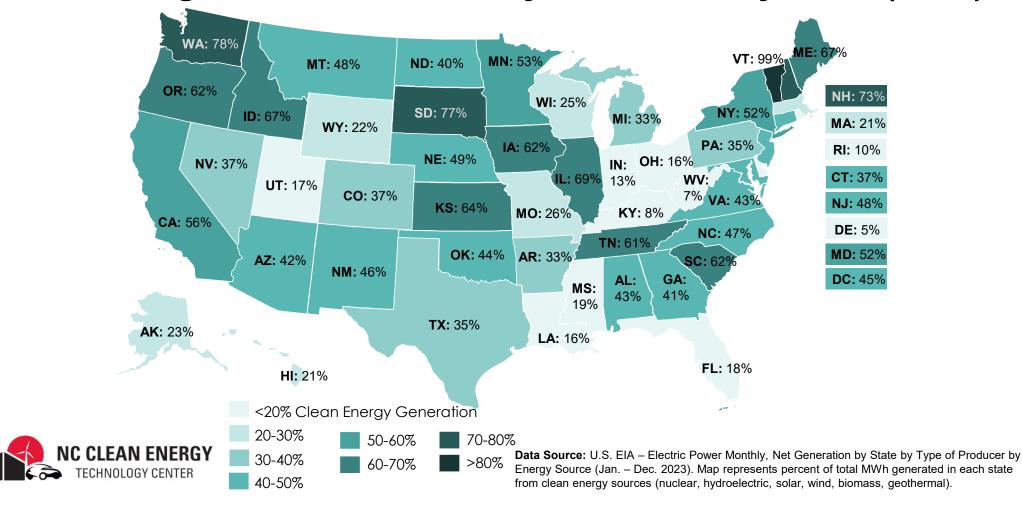


Map Source: Center for Resource Solutions, Renewable Energy Certificate Tracking Systems in North America. Last updated February 2024.

State Clean and Renewable Energy Targets (August 2024)



Percentage of Clean Electricity Generated by State (2023)



Example: Colorado

- Renewable Portfolio Standard: 30% x 2020 for IOUs
 - 10% 20% x 2020 for municipals + cooperatives

does NOT! include nuclear

- Emission Target: 100% of 2005 levels x 2050
- Largest Resource in 2023: Coal
- Largest Clean Resource in 2023: Wind
- Percentage Clean Electricity Generated in 2023: 36%
 - Percentage Renewable (excluding Nuclear): 36%





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