



Center Overview, Programs, & Clean Tech Policy

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German American Chambers of Commerce - Innovation Circle

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Our Mission

The N.C. Clean Energy Technology Center, at N.C. State University, advances a sustainable energy economy by educating, demonstrating and providing support for clean energy technologies, practices, and policies.

For over 35 years, the Center has worked closely with partners in government, industry, academia and the non-profit community.

Our Work

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



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 impacts on clean energy technologies. Projects include:

- [DSIRE Insight](#)
 - The 50 States reports & policy datasets
 - Customized research & analysis
- Database of State Incentives for Renewables & Efficiency ([DSIRE](#))
- Database of Emerging Large Load Tariffs (DELTA)
- Carolinas Development Assistance and Siting Hub (Carolinas DASH)



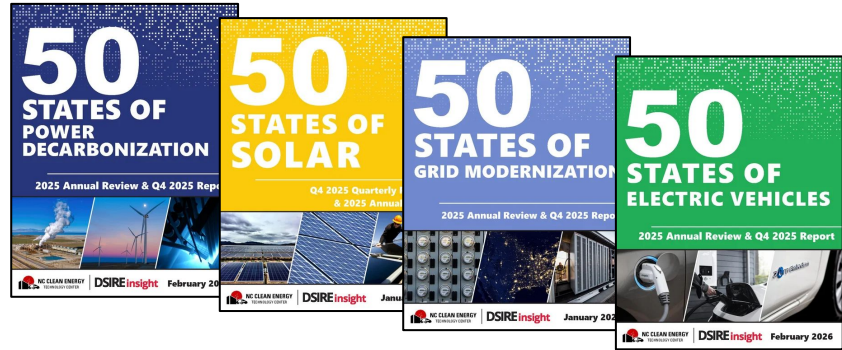
Understand the rapidly changing energy policy landscape and unlock new opportunities.

SUBSCRIBE NOW



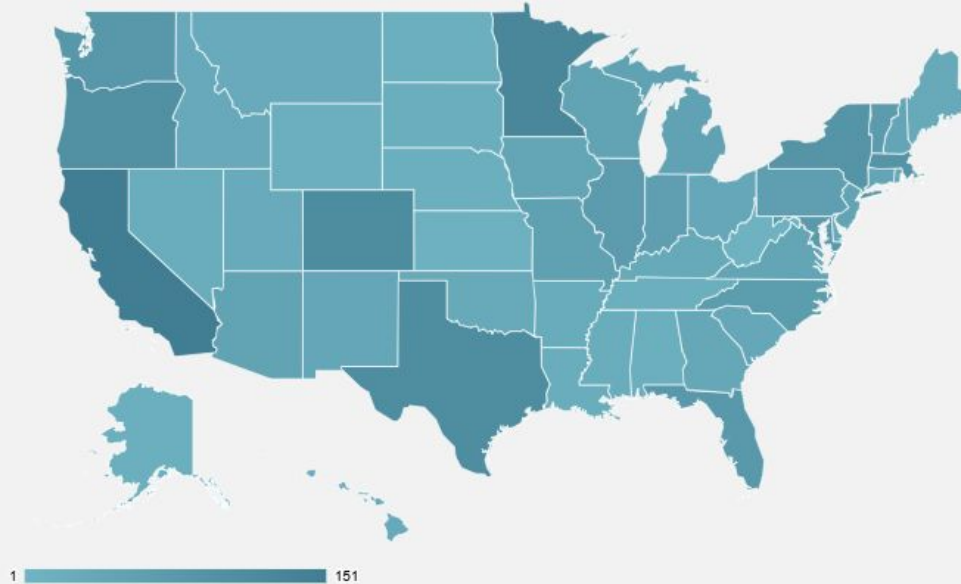
DSIRE Insight

- Tracking Subscription Content
 - Biweekly Legislative and Regulatory Tracking
 - Quarterly Policy Reports
 - Policy Data Sheets
 - Monthly Curated Policy Update Emails
- Custom Tracking, Consulting, and Policy Research



Contact dsire-admin@ncsu.edu for inquiries

Find Policies & Incentives by State



T US Territories >

DC District of Columbia >

 Federal >

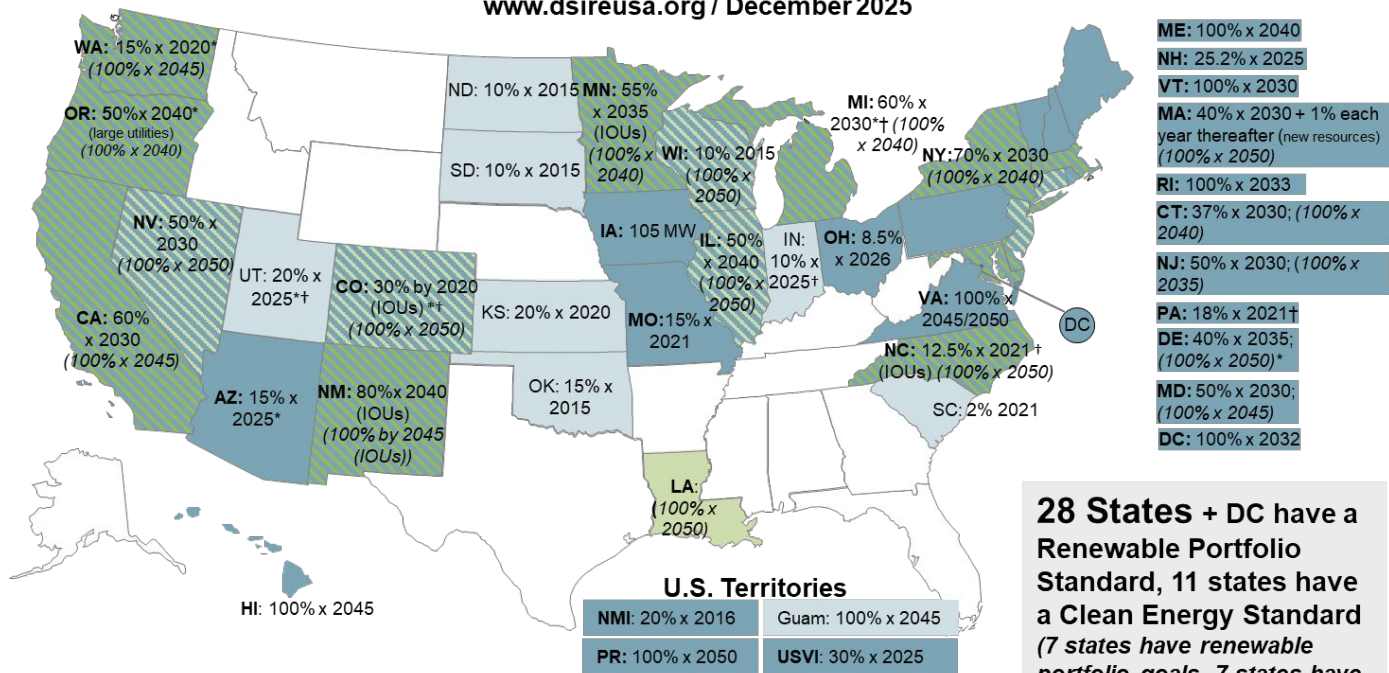


Database of State Incentives for Renewables and Efficiency (DSIRE)

- Established in 1995
- On average, over 1 million users annually
 - ~76% of users are homeowners looking for incentives
 - ~6% of users are manufacturers, retailers, or installers
- **Database Content**
 - Covers renewable energy technologies, as well as energy efficiency, energy storage, and electric vehicle technologies
 - +2,500 policy/incentive summaries
 - Federal and state administered policies and incentives
 - Incentives provided by utilities with >30,000 customers
 - Policies and incentives implemented by the top 50 cities and counties by population, plus examples of innovative local policies and incentives
 - Policies include:
 - Clean energy/renewable energy standards, state energy storage targets, net metering, energy efficiency standards, and more...
 - Incentive types include:
 - Tax incentives, loan programs, grant programs, rebates, and more...

Renewable & Clean Energy Standards

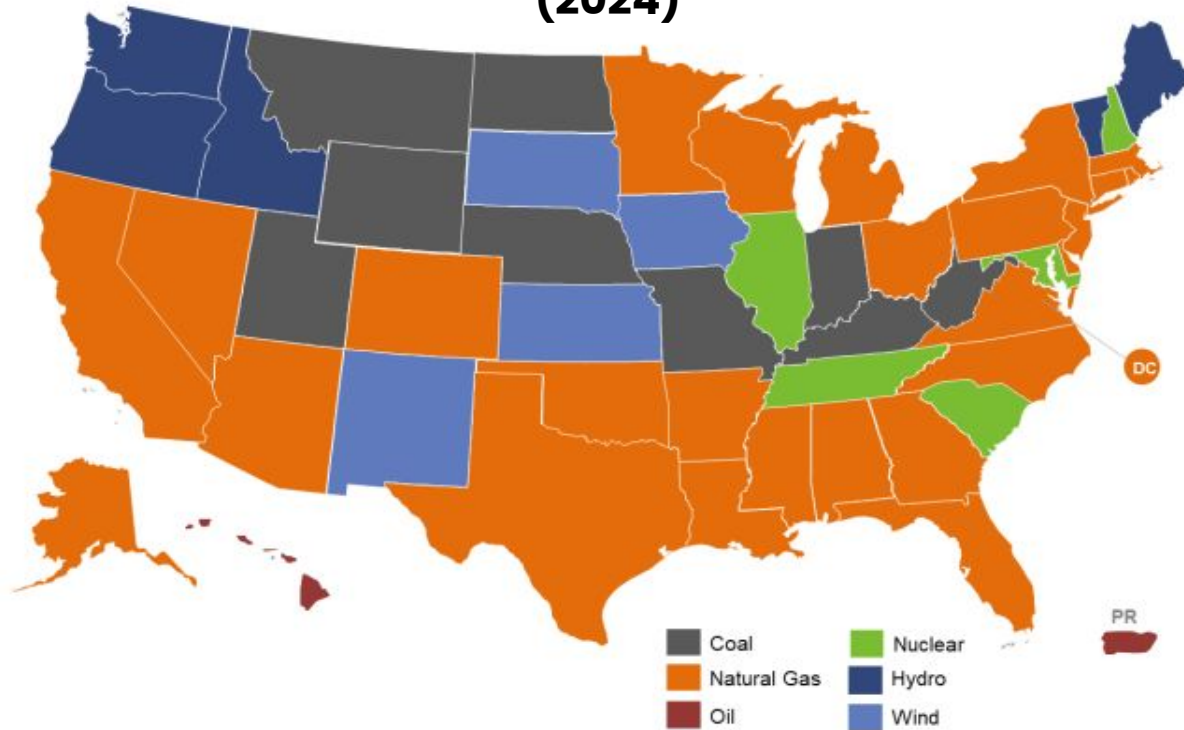
www.dsireusa.org / December 2025



■ Renewable portfolio standard ■ Clean energy standard
■ Renewable portfolio goal ■ Clean energy goal

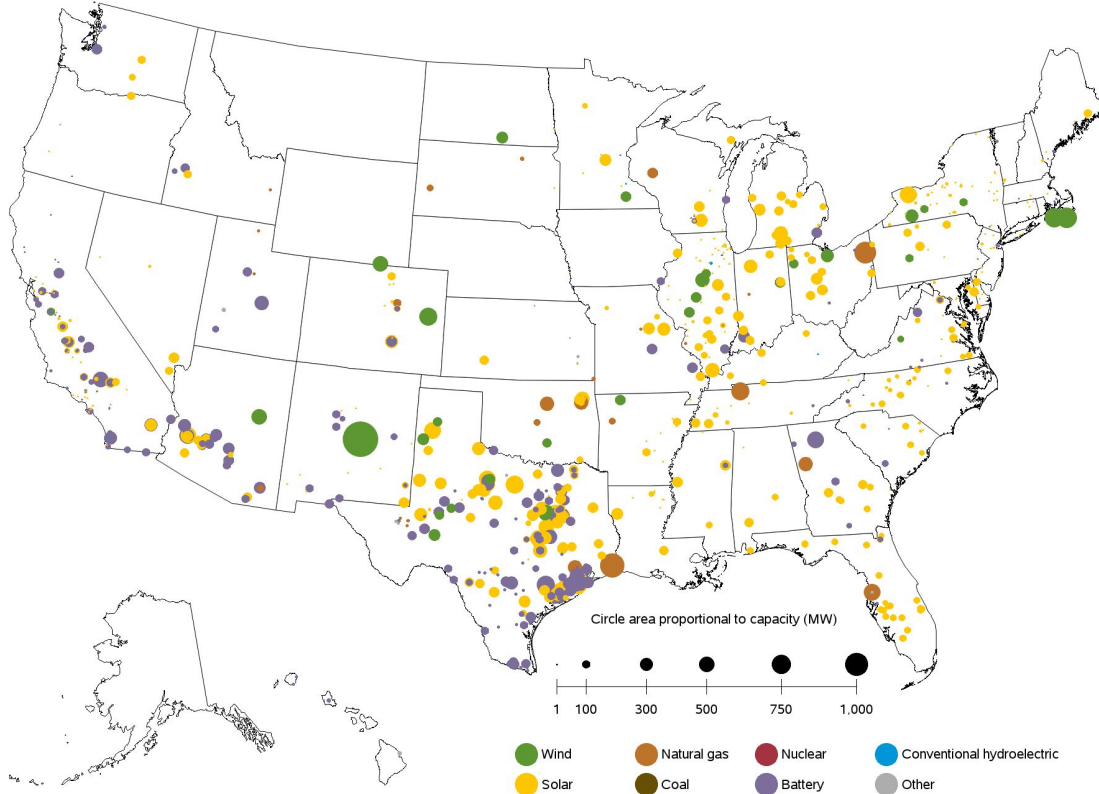
* Extra credit for solar or customer-sited renewables
 † Includes non-renewable alternative resources

Largest Contributing Resource to State Electric Generation Mix (2024)



Data Source: U.S. Energy Information Administration – Electric Power Monthly, Net Generation by State by Type of Producer by Energy Source (Jan. – Dec. 2024).

Planned Utility-Scale Generation Units (Jan. - Dec. 2026)



Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Energy Efficiency Resource Standards (and Goals)

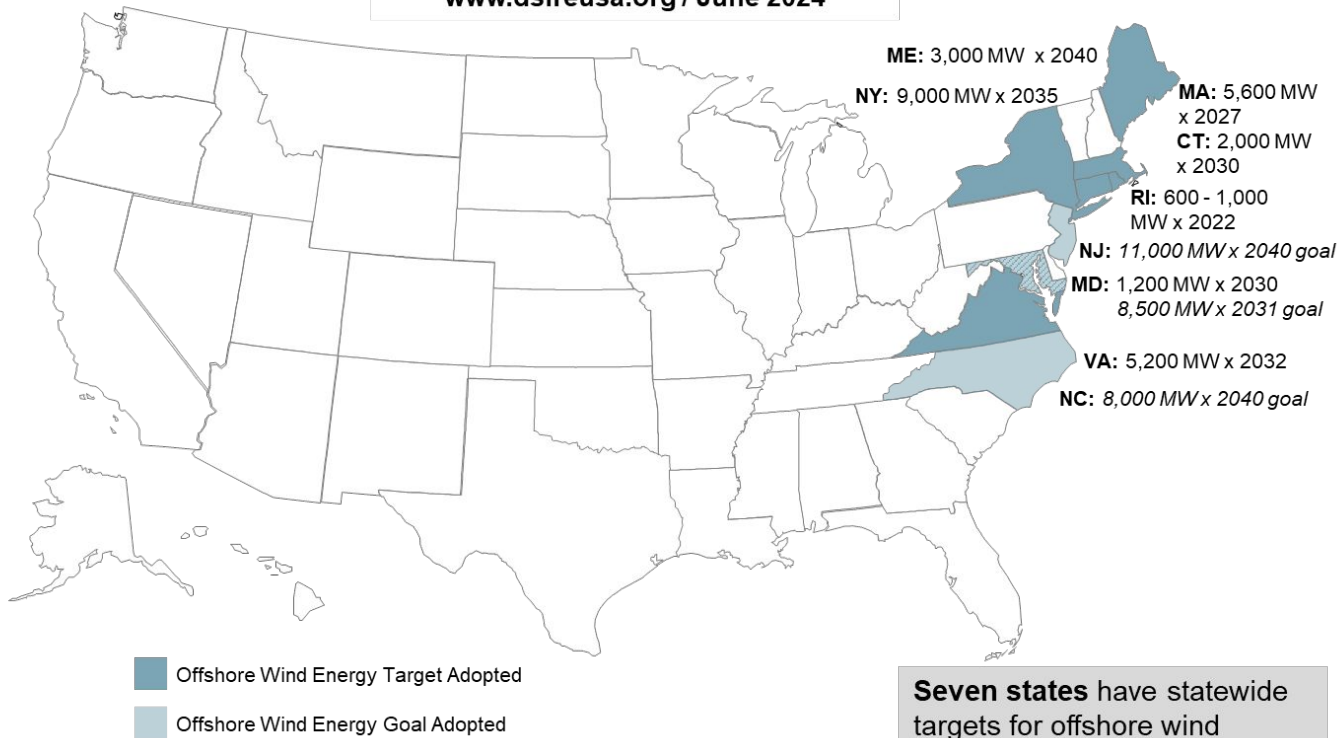
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- States with an Energy Efficiency Resource Standard
- States with an Energy Efficiency Resource Goal
- No State Standard or Goal

Offshore Wind Energy Targets

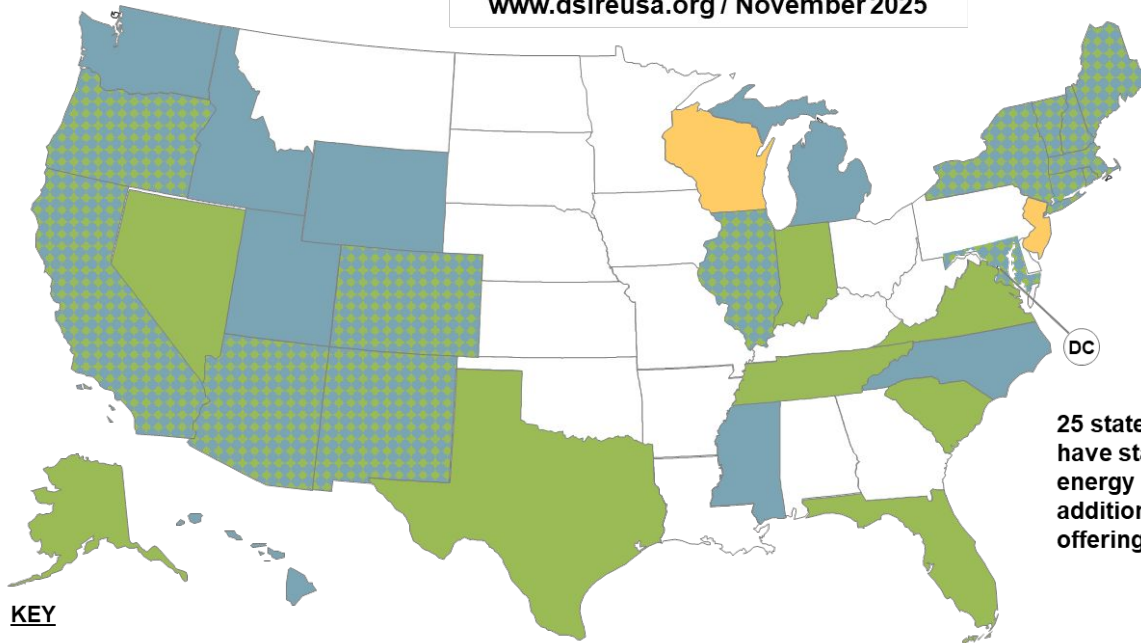
www.dsireusa.org / June 2024



Seven states have statewide targets for offshore wind energy deployment, **two states** have *goals*.

Energy Storage Financial Incentives

www.dsireusa.org / November 2025



25 states plus PR and VI have statewide incentives for energy storage. An additional 7 have utilities offering direct incentives.

KEY

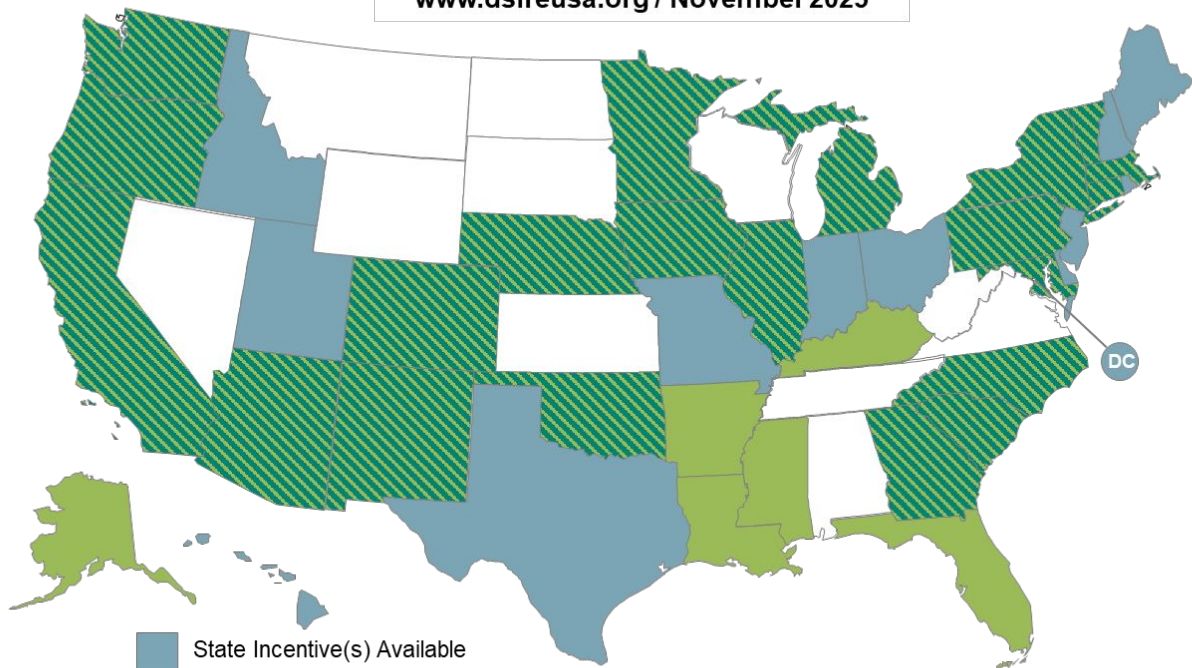
- State Property or Sales Tax Incentive
- State Grant, Rebate, or Performance-Based Incentive Program
- Utility Rebate Program(s)
- Multiple Statewide Programs and/or Utility Rebate Programs

U.S. Territories:

- AS
- PR
- VI
- GU

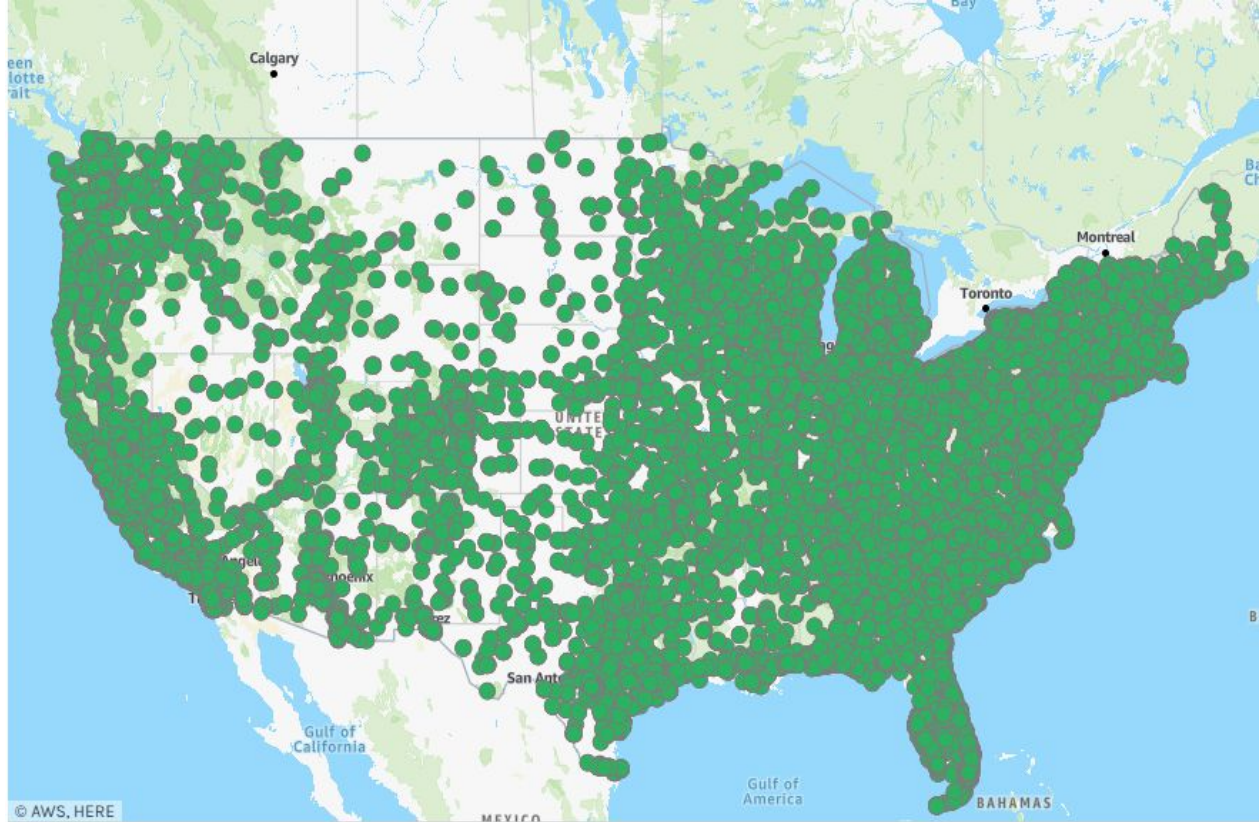
Passenger Electric Vehicle Incentives

www.dsireusa.org / November 2025



- State Incentive(s) Available
- Utility Incentive(s) Available
- State & Utility Incentives Available

Incentives for Passenger Electric Vehicles are available in **39 states + DC**.



78,158
station locations

240,038
EV charging ports ⓘ

Filters chosen:



United States



Electric

Types: DC Fast, Level 2



Access: Public

Database of Emerging Large-Load Tariffs (DELTA)



DELTA

Frequently Asked Questions (FAQs)

Additional Resources

Electricity tariffs – utilities’ rates and contracts with their customers – are a key tool for managing the costs and uncertainties that come with serving large, new customers.

Explore this comprehensive map of 60+ tariffs designed to help plan for load growth, fairly distribute costs and benefits, and support local policy objectives in the United States. Download the full database using the form below the map.

Utility

(All)

Tariff Status

- Approved
- Proposed / Pending

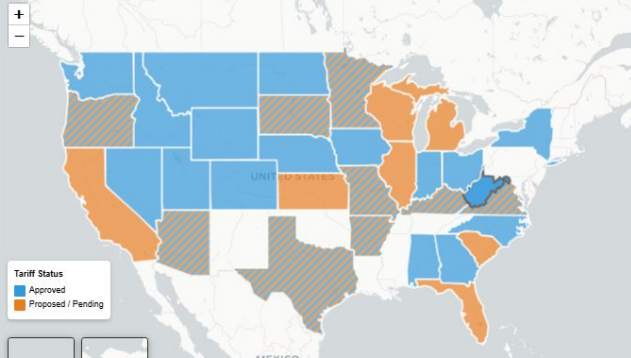
Tariff Focus

- General Commercial & Industrial Customers
- Large-Load Customers
- Data Center Customers
- Cryptocurrency Customers

Minimum Customer Load

- Not Specified
- <1 MW
- 1-5 MW
- >5-99 MW
- 100 MW
- >100 MW

Database of Emerging Large-Load Tariffs (DELTA)



Tariff Status

- Approved
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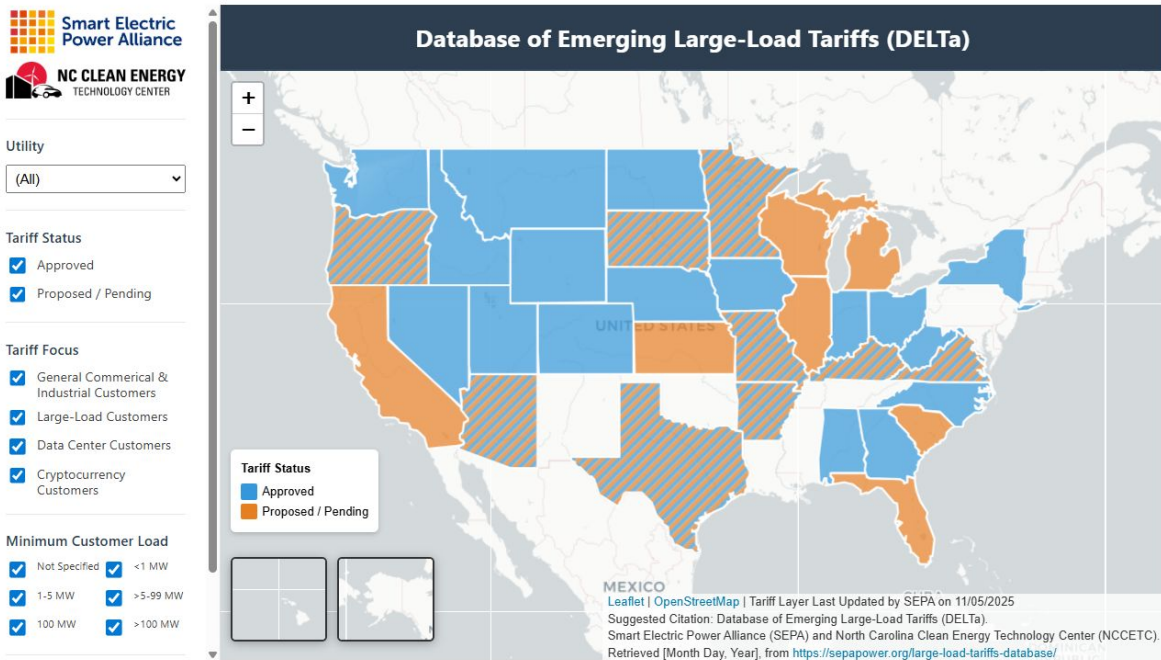
MEXICO

Leaflet | OpenStreetMap | Tariff Layer Last Updated by SEPA on 11/05/2025

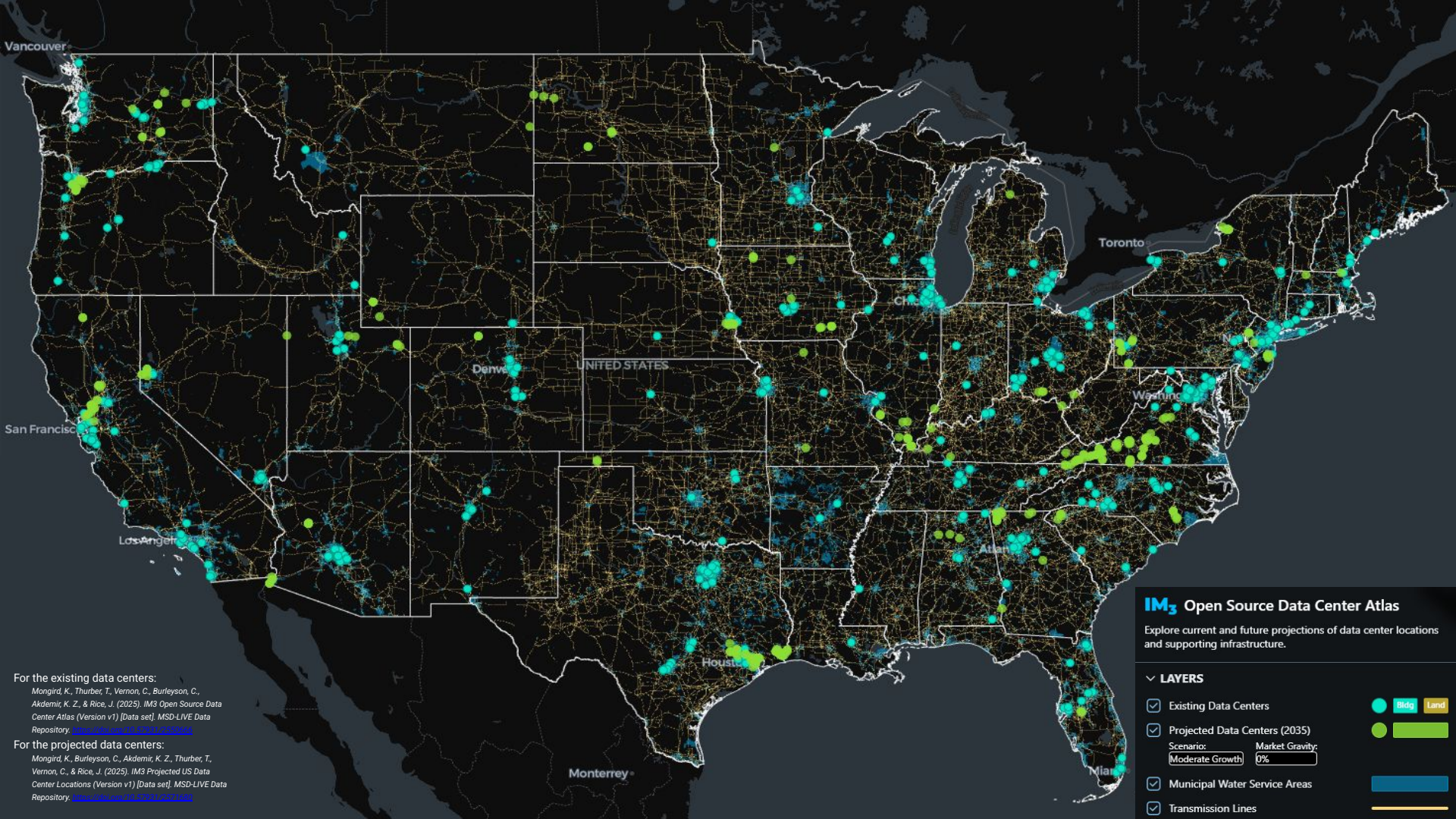
Suggested Citation: Database of Emerging Large-Load Tariffs (DELTA). Smart Electric Power Alliance (SEPA) and North Carolina Clean Energy Technology Center (NCCETC). Retrieved (Month Day, Year), from <https://seppower.org/large-load-tariffs-database/>



- A publicly available interactive map and downloadable database of large-load tariffs and utility service rules, **updated quarterly**
- Case summaries and analysis of **approved** and **proposed** tariffs
- A way to **compare** how different utilities are refining rates for a large-load growth era



Visit: [www.sepapower.org/large-load-tariffs-database/](https://sepapower.org/large-load-tariffs-database/)



IM₃ Open Source Data Center Atlas

Explore current and future projections of data center locations and supporting infrastructure.

LAYERS

- Existing Data Centers ● ●
- Projected Data Centers (2035) ■ ■
Scenario: Market Gravity:
- Municipal Water Service Areas ■
- Transmission Lines ■

For the existing data centers:

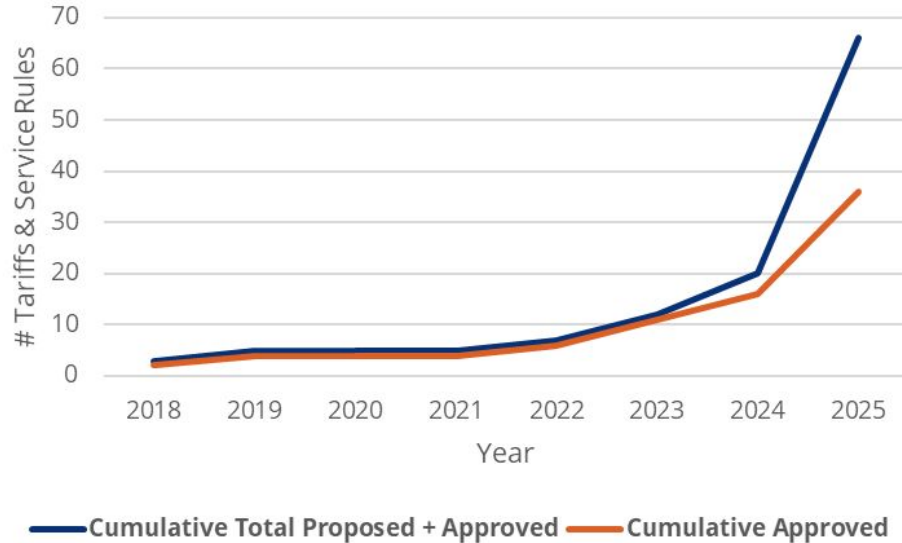
Mongird, K., Thurber, T., Vernon, C., Burleyson, C., Akdemir, K. Z., & Rice, J. (2025). IM₃ Open Source Data Center Atlas (Version v1) [Data set]. MSD-LIVE Data Repository. <https://doi.org/10.5281/5250949>

For the projected data centers:

Mongird, K., Burleyson, C., Akdemir, K. Z., Thurber, T., Vernon, C., & Rice, J. (2025). IM₃ Projected US Data Center Locations (Version v1) [Data set]. MSD-LIVE Data Repository. <https://doi.org/10.5281/5250949>

Current Trajectory of Large-Load Tariffs

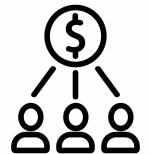
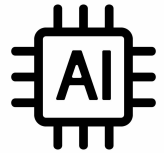
Rates, contracts, and service rules may help utilities manage costs and reduce uncertainties.



Source: Database of Emerging Large-Load Tariffs (DELTA). Smart Electric Power Alliance (SEPA) and North Carolina Clean Energy Technology Center (NCCETC). <https://sepapower.org/large-load-tariffs-database>. Data as of November, 2025.

Key Tariff Trends

- Large-load neutral tariffs
- Minimizing cost shifting to other ratepayers
 - Establish fair cost recovery for essential grid upgrades, new generation, and studies
- Ensuring and strengthening grid reliability
 - Strict termination and interruptible service provisions
 - Load flexibility through demand response and dynamic pricing
- Advancing carbon-free solutions
- Flexible and innovative contractual frameworks
- Balancing economic development w/utility responsibilities





Supporting States and Communities on Renewable Energy Siting and Permitting

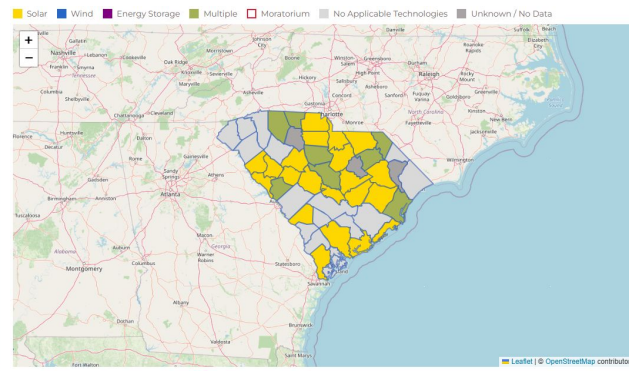
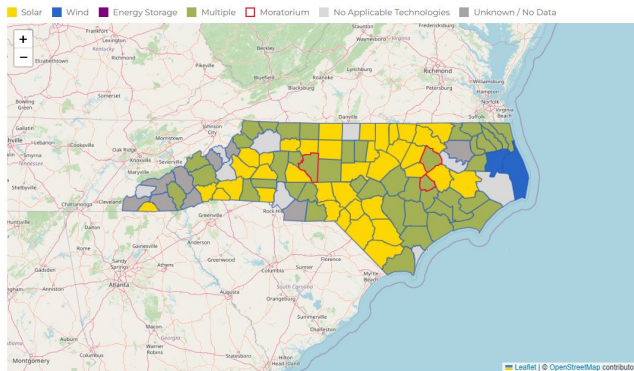
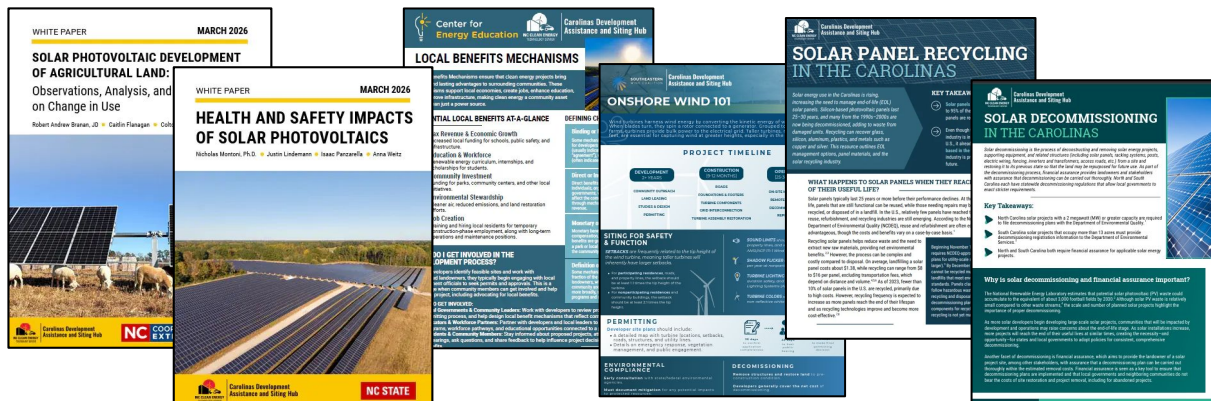
STAY CONNECTED

Visit: www.carolinas-dash.org



Carolinas DASH

- Educational resources and events on renewable energy planning, siting, and permitting
- NC/SC local renewable energy ordinance database
- Technical assistance for local govts





Contact us for more information

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