

Emerging Trends in Data Center Tariffs and Rate Design Across the U.S.

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NC Clean Energy Technology Center

EUCI Canadian Innovative Rate Design Conference

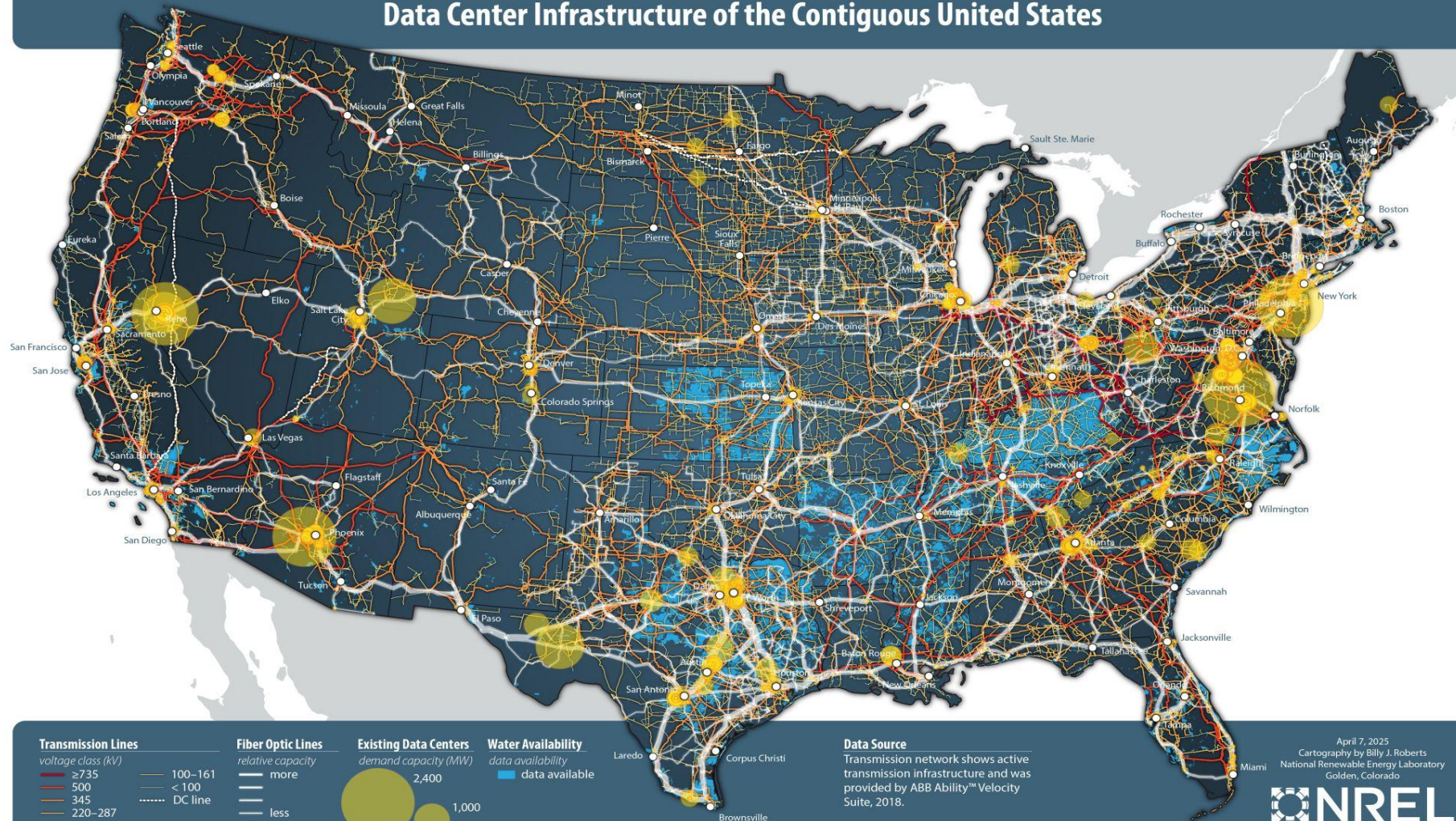
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Our Mission

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.

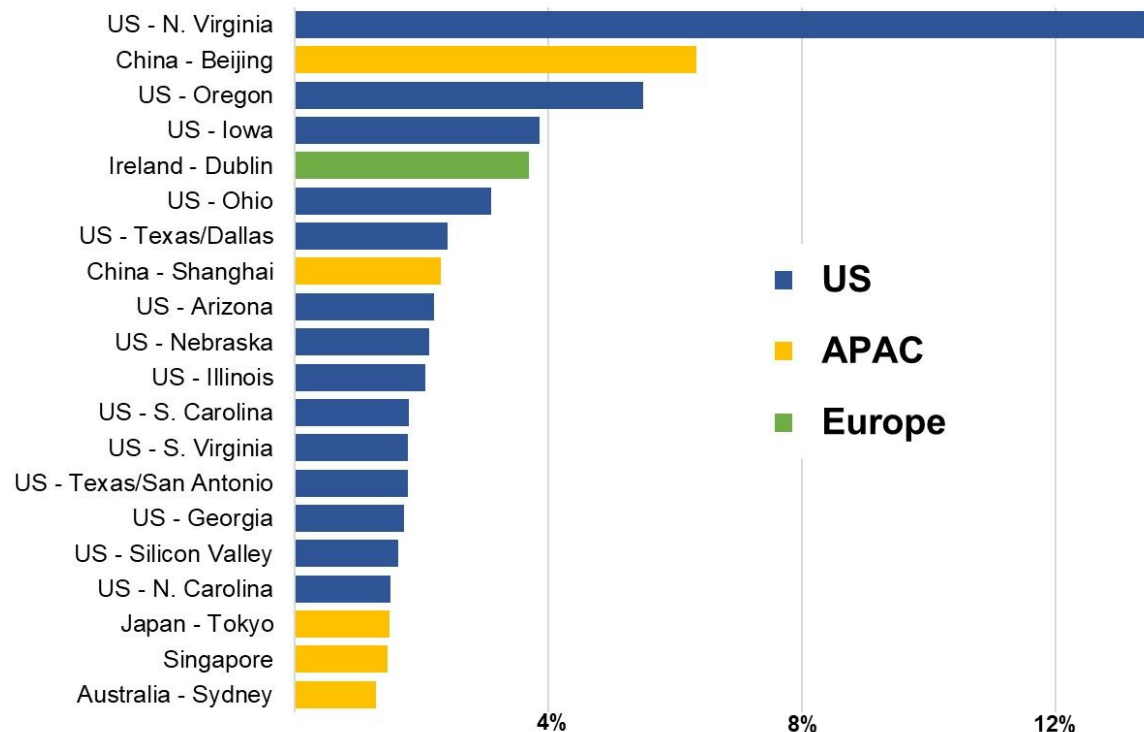
For over 35 years, the Center has worked closely with partners in government, industry, academia and the non-profit community.

Data Center Infrastructure of the Contiguous United States



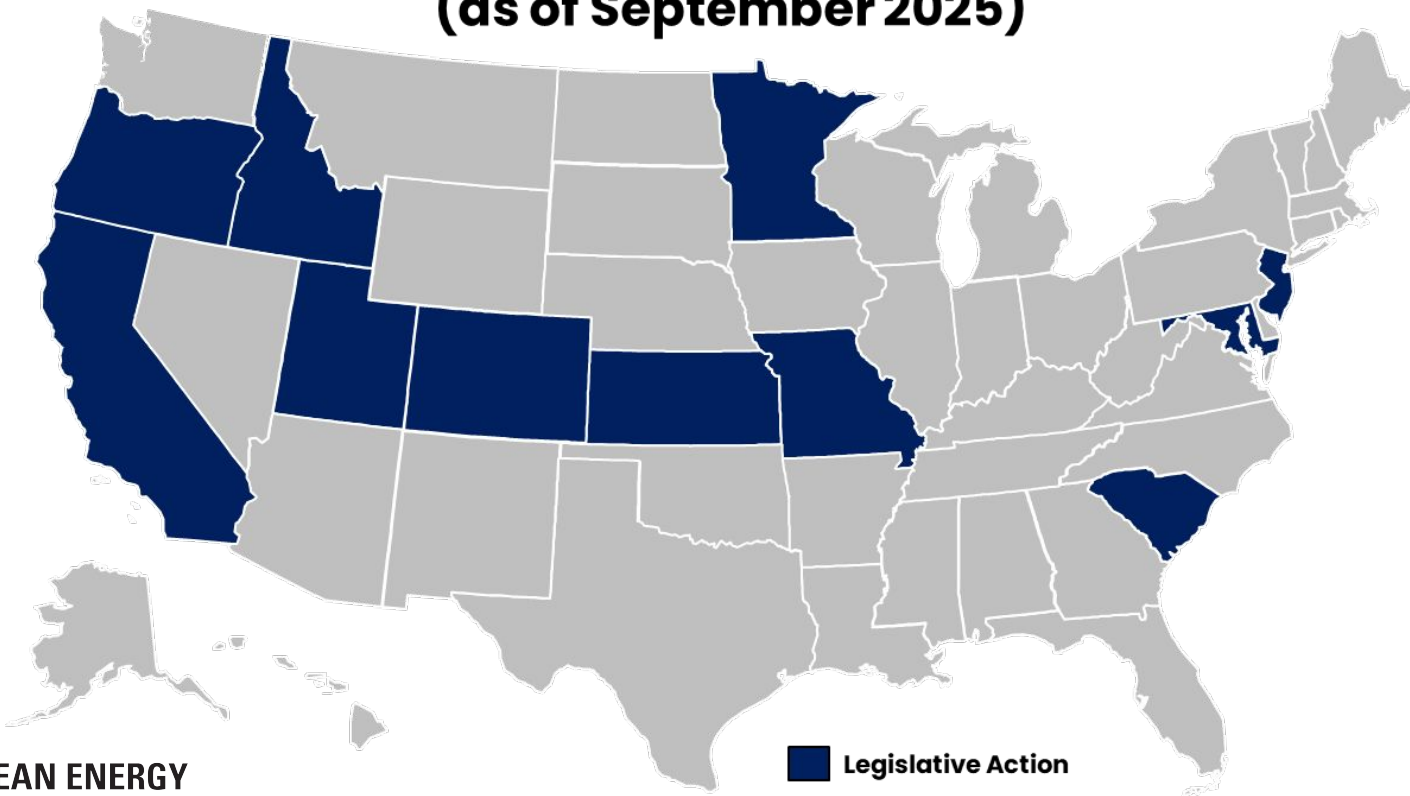
Hyperscale Data Center Capacity by Country/Region

(MW of Operational Critical IT Load - End of Q1 2025)



Source: Synergy Research Group

Utility Tariff Legislation in 2025 (as of September 2025)



Key Characteristics in Data Center Utility Tariffs

- Minimum demand/size (Large-load vs data center-specific)
- Contract duration and termination
- Financial assurance and collateral
- Cost allocation and shifting limitations
- Various energy transition/service provisions
 - Load flexible service
 - Clean energy requirements

Notable Approved Tariffs

NV Energy CTT

- Min. Demand: 5 MW
- Contract Duration/Termination: Lifespan of clean energy system
- Assurance/Collateral: Not Specified
- Cost Allocation/Shifting: Customer pays for energy resource
- Energy Transition/Service: Carbon-free energy source required

VA Dominion Energy CFG

- Not Specified
- Varies
- Not Specified
- Not Specified
- Carbon-free energy source required

WA Chelan PUD Schedule 36

- Not Specified
- Varies
- Demand penalty & capital charge
- Varies
- Service interruption allowed

AEP Ohio DCT

- 25 MW
- 8 yrs + 4 yr load ramp
- Credit check and collateral payment
- Customer pays for utility study
- Service interruption allowed

NV Energy Clean Transition Tariff (CTT)

- Large loads ≥ 5 MW eligible
- For existing fully-bundled customers seeking dedicated clean energy
- NV Energy owns/dispatches resources; RECs retired/transferred
- Contract via energy supply agreement for new renewables
- Regulators ensure no extra costs for other customers
- Facility costs borne by large-load customer
- Contract term = facility life; early termination fees apply

Virginia Dominion Energy Carbon-Free or Renewable Generation Supply Service (Experimental; CFG)

- Voluntary experimental tariff for non-residential customers (small-large)
- Customers can purchase clean energy + environmental attributes up to 100% of demand
- Facilities ≥ 1 MW from utility or third party
- Eligible resources: nuclear, solar, wind, hydro, geothermal, biomass, clean hydrogen, etc.
- Limited to 50 customers

WA Chelan County Public Utility District

Rate Schedule 36: Data Centers and Similar Loads

- Data centers & similar loads
 - Rates by demand; >3 MW needs custom contract
 - Includes load balancing, decommissioning, maintenance
- Upfront capital charge for new/increased loads
- Security deposit: 3× highest monthly bill
- Demand exceedance fee: \$150 + 1.5× monthly charge/day
- Load changes require new contract
- Advance notice for termination/reduction/amendments
 - District may prioritize interruptions
 - No compensation for interruptions unless specified

AEP Ohio

Data Center Tariff (DCT)

- Applies to data centers ≥ 25 MW (new or expanding above 25 MW)
- 12-year contract: 4-year load ramp + 8 years
- Financial strength required (A- credit, cash/collateral/guarantee)
- Early termination: 36 months minimum charges after Year 5 or exit fee after Year 5
- Termination requires 3 years' written notice
- Service may be suspended/disconnected if load > 1 MW or technical limits exceeded
- Customers must avoid load cycling that destabilizes system frequency

Notable Proposed Data Center Tariffs

- MI Consumers Energy – Amending Large General Service Primary Demand (Rate GPD) to include additional data center-specific provisions
- VA Dominion Energy – Proposed creating both a new "High Load" customer class and Rate Schedule GS-5: High Load/Load Factor Service
- SD Black Hills Power – Proposal to implement an Economic Flexible Load Service (EFLS) Tariff, to serve new interruptible loads of 10 MW or greater.
- AZ Arizona Public Service – Proposed changes to its Extra High Load Factor (XHLF) Tariff, including specific data center requirements
- FL Duke Energy – Proposed new large load customer tariff and customer policy

Key Tariff Trends

- Large-load neutral tariffs
- Minimizing cost shifting to non-data center 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 voluntary demand response and TOU rates
- Advancing carbon-free solutions
- Flexible and innovative contractual frameworks
- Balancing state/local economic development w/utility responsibilities

The Smart Electric Power Alliance (SEPA) and the NC Clean Energy Technology Center created the **Database of Emerging Large-Load Tariffs (DELTA)**

DELTA offers:

- An interactive map and database of large-load tariffs in the U.S.
- 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



Utility
(All) ▼

Tariff Status

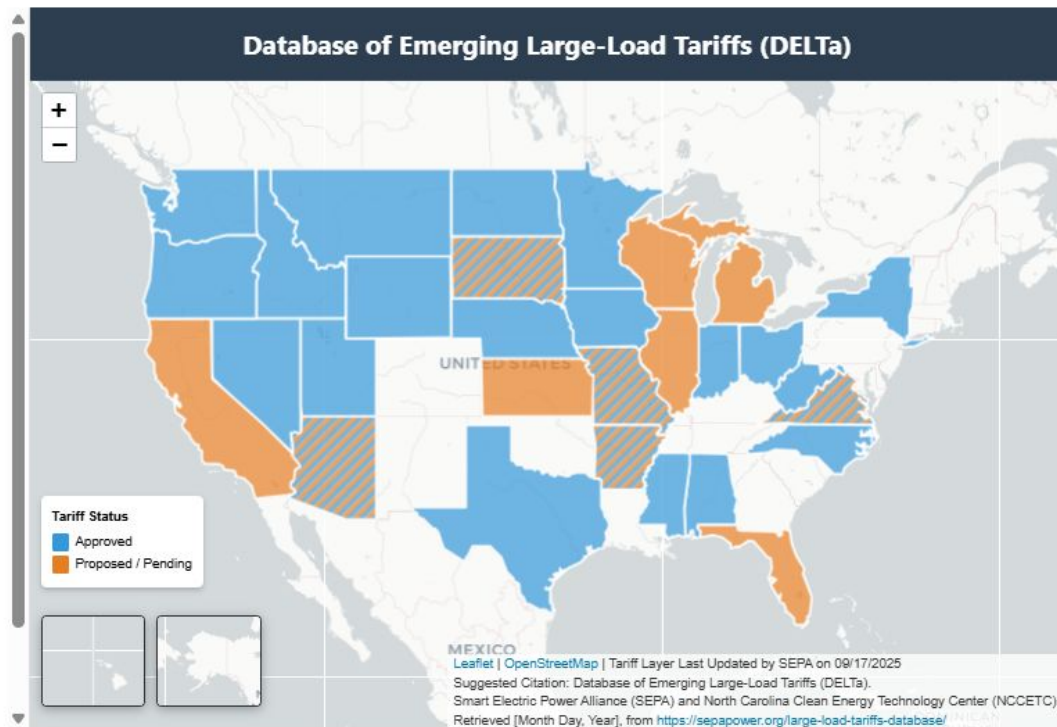
- ✓ Approved
- ✓ Proposed / Pending

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



Visit: www.sepapower.org/large-load-tariffs-database/



Contact us for more information

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