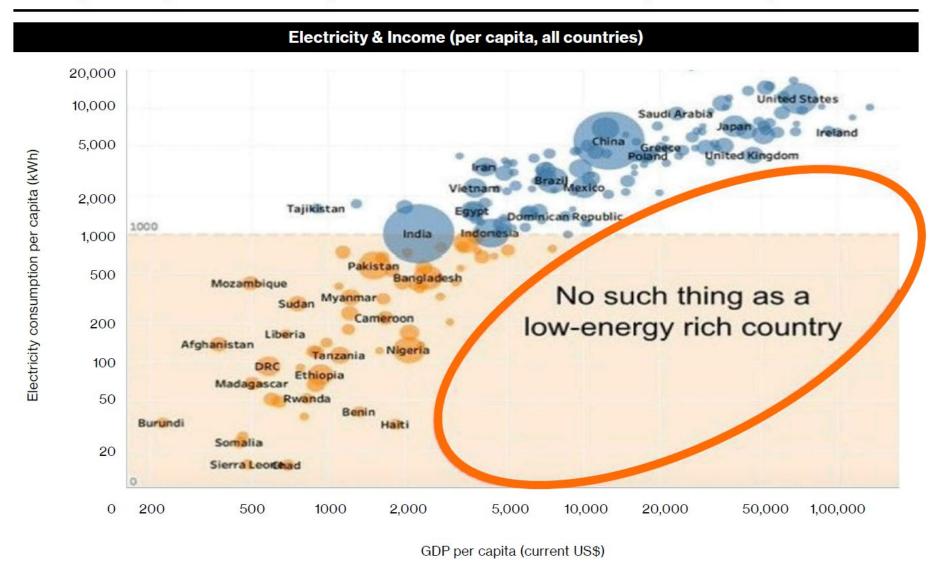


SECRETARY OF ENERGY & ENVIRONMENT

Office of the Secretary of Energy and Environment

September 3, 2025

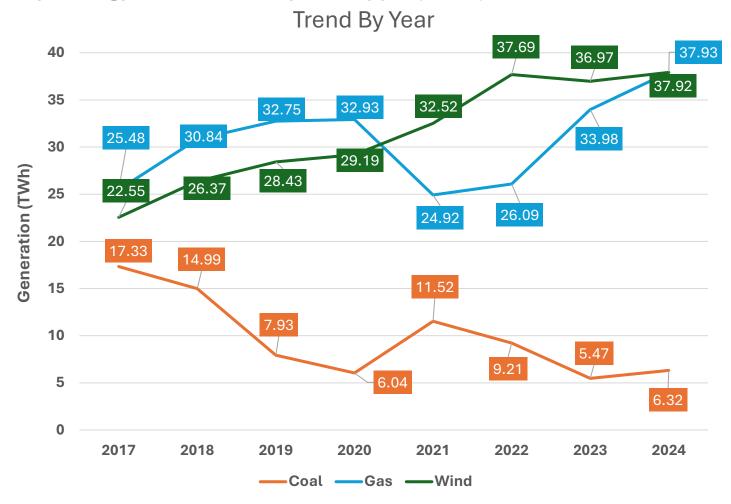
GDP per Capita Is Directly Correlated To Electricity Consumption





Oklahoma's EVOLVING ENERGY MIX

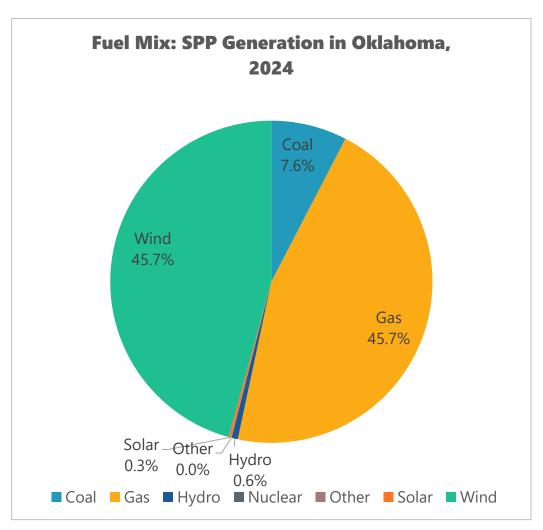
Yearly energy Production by fuel type (TWh)

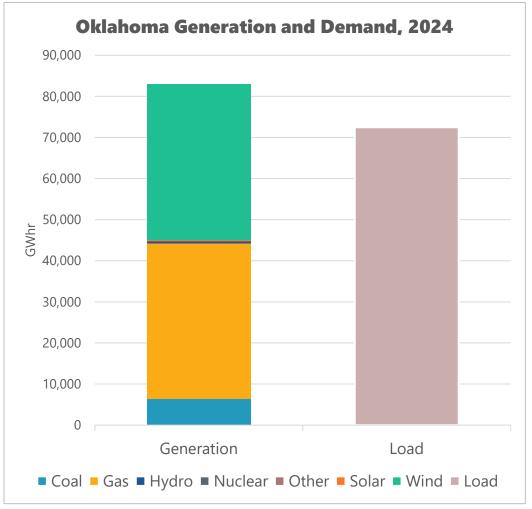


OK CHANGE IN ENERGY PRODUCTION SINCE 2017

Gas: 7 49% increase

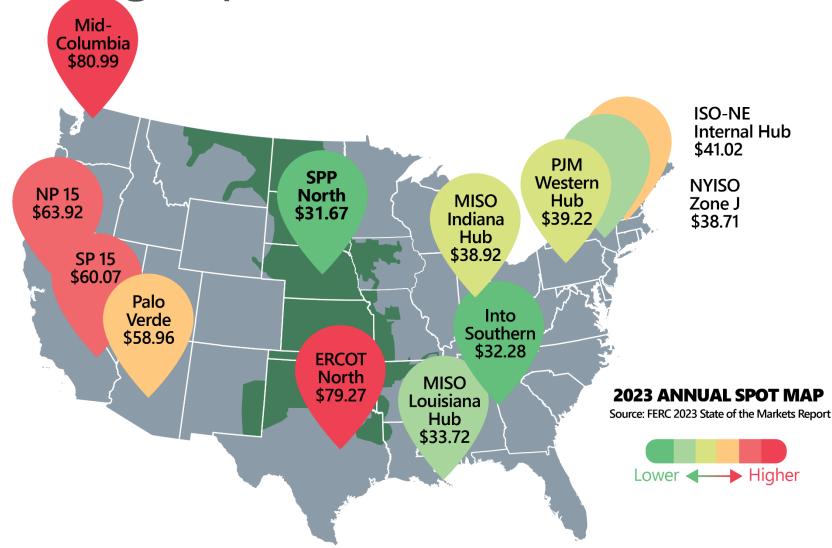
2024 Oklahoma Generation and Load



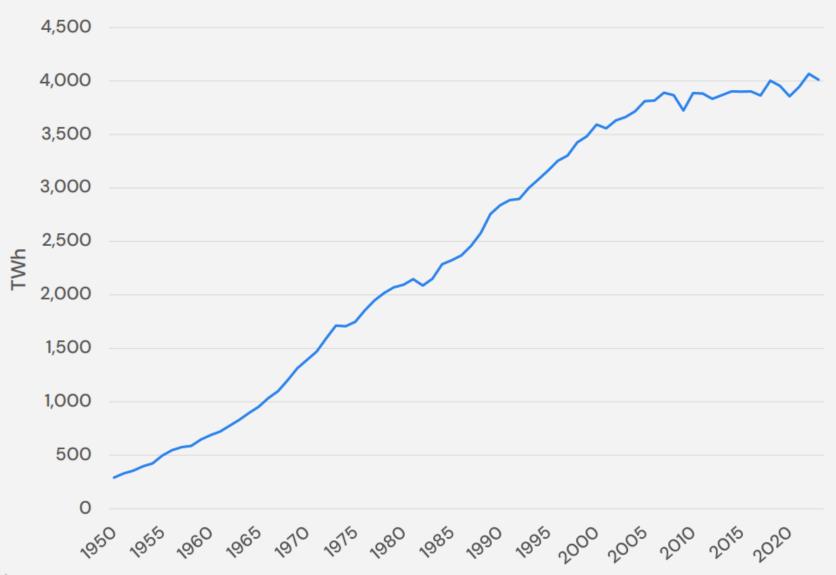


2023 Annual Average Spot Prices

In 2023, SPP's average wholesale market prices remained the <u>lowest</u> of any organized <u>market in the U.S.</u>



Historic US electricity use



U.S. Electricity Use Growth by Decade

1950 – 1960: 136%

1960 - 1970: 102%

1970 - 1980: 50%

1980 - 1990: 35%

1990 – 2000: 27%

2000 – 2010: 8%

2010 - 2022*: 3%

Source: EIA MER Table 7.6 *Used 2022 instead of 2020 to account for COVID-19.



Examples of "Large" data centers over time



2008 - 12 MW

- Driven by colocation and multi-tenant designs
- Less predictable ramp schedules
- Less likely to to have high load factor



2015 - 100MW

- Driven cloud computing and single-tenant designs
- More predictable ramp schedules
- More likely to to have high load factor

2024 - 1GW

- Driven by AI / GenAI / AGI
- Aggressive ramp schedules
- Unknown load factor

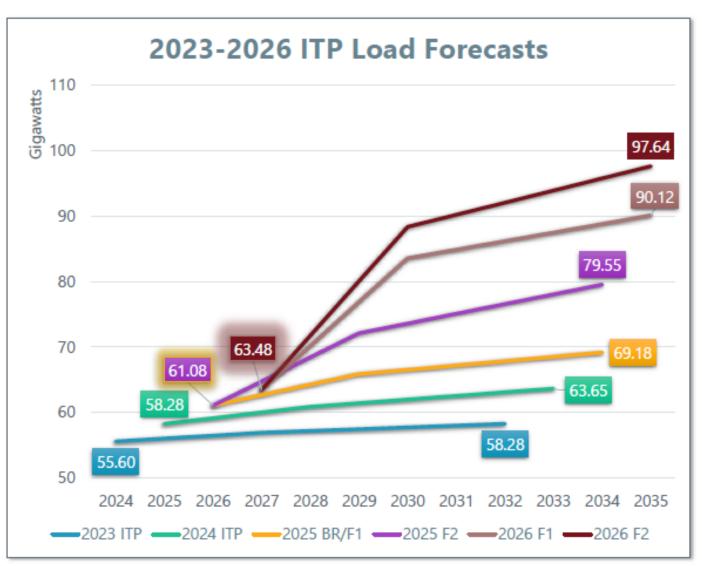


DEMAND GROWTH AHEAD

2025 and 2026 Planning models includes large load growth in both futures at varying levels

SPP (and the industry) continue to see large load projections grow

Proactive transmission investment will ensure SPP is ready to serve this load growth





161.1 **GW**

GENERATOR INTERCONNECTION REQUESTS UNDER STUDY

AS OF JULY 2025

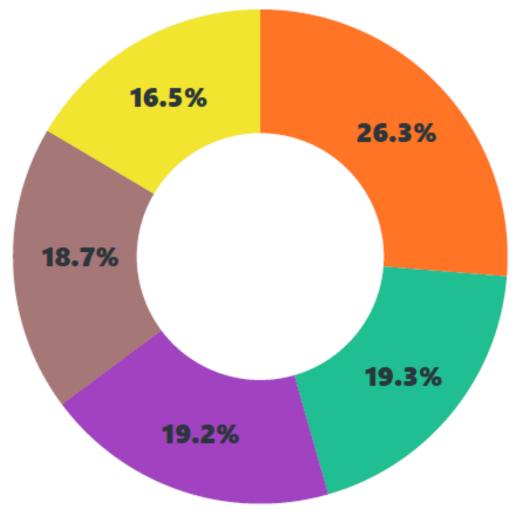
■ Solar (42,347 MW)

■ Wind (31,077 MW)

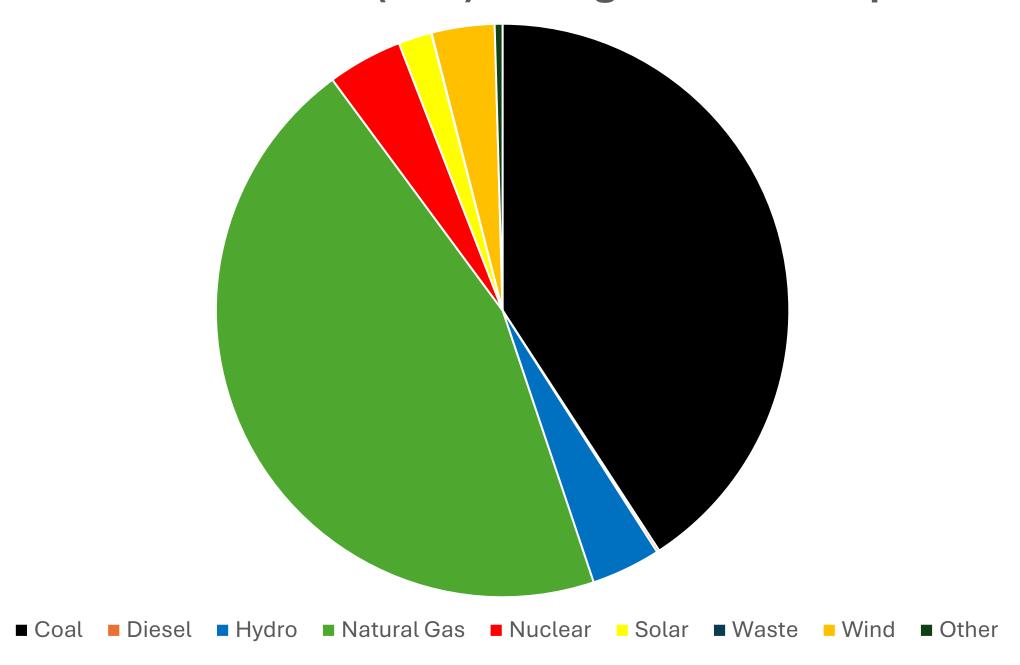
■ Battery/Storage (31,002 MW)

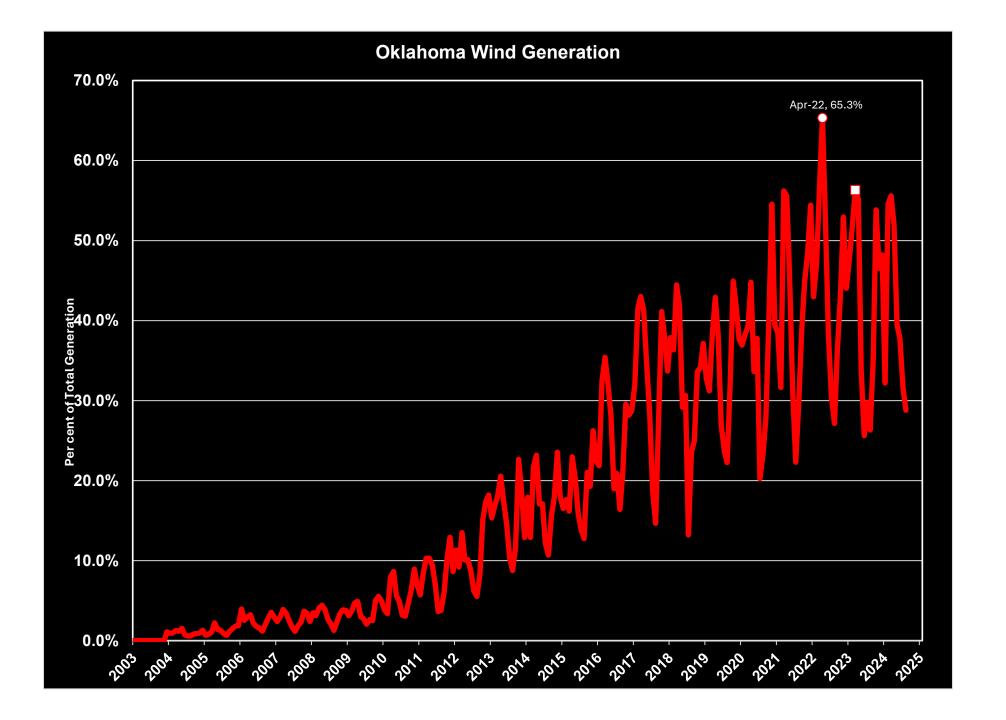
■ Thermal (30,129 MW)

Hybrid (26,564 MW)

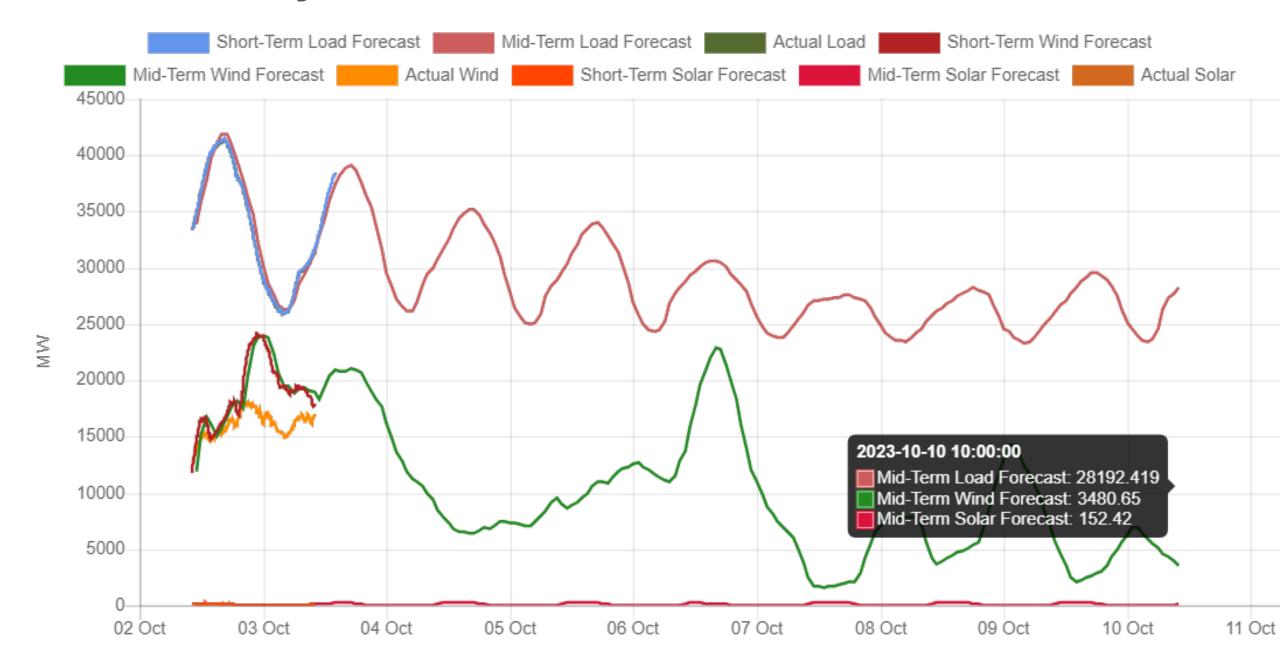


Generation Mix (SPP) on August 21 at 6:00pm





SPP 10-Day Outlook



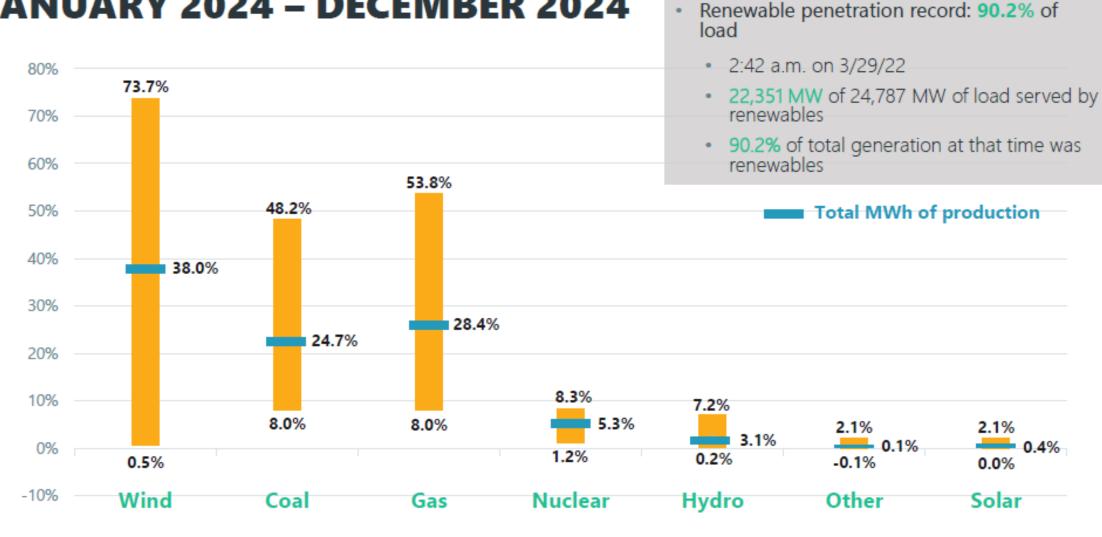


65,639 MW Accredited Capacity (as of Summer 2025)

DEMAND/LOAD

- 56,184 MW all-time coincident peak load (8/21/23)
- 48,142 MW Winter peak (2/20/25)

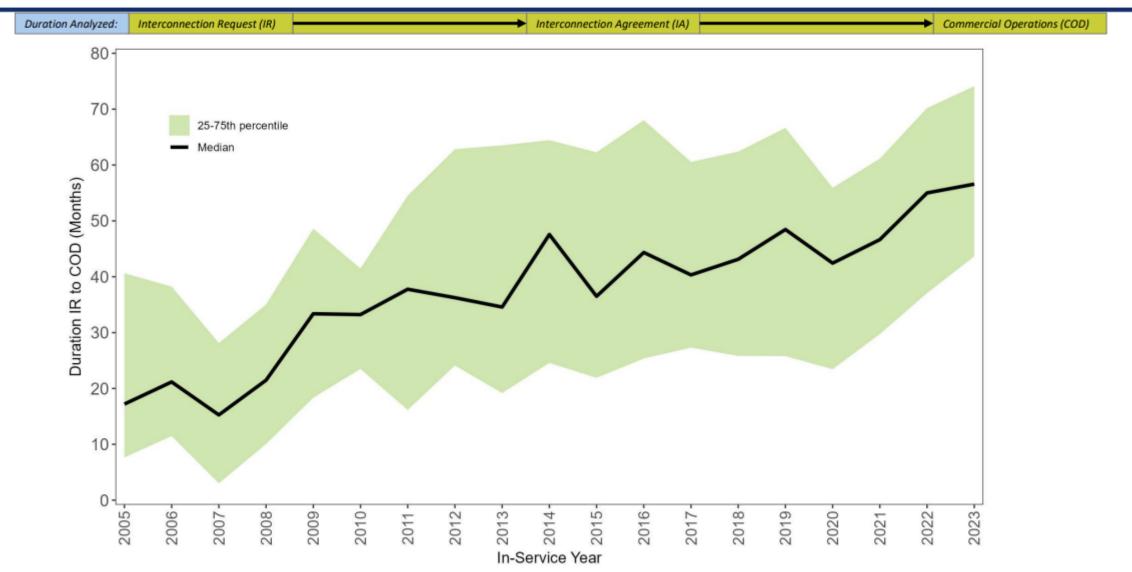
MIN AND MAX PERCENT OF GENERATION BY FUEL TYPE JANUARY 2024 – DECEMBER 2024 Renewable penetration record: 90.2% of



Min and Max % based on the highest and lowest percent from individual real-time balancing market (RTBM) intervals for the period. Total MW/h of production is based on the sum of RTBM dispatch MW across the period.



The median duration from interconnection request (IR) to commercial operations date (COD) continues to rise, approaching 5 years for projects completed in 2022-2023



Notes: (1) In-service date was only available for 6 ISOs (CAISO, ERCOT, ISO-NE, NYISO, PJM, SPP) and 8 non-ISO BAs (Duke, FPL, LADWP, PSCo, SOCO, SEC, SRP, TSGT) representing 61% of all operational projects. (2) Duration is calculated as the number of months from the queue entry date to the commercial operations date.



June 11, 2025

Federal Energy Regulatory Commission 888 First Street N.E. Washington, D.C. 20426

Re: Support for the SPP's Proposed Expedited Resource Adequacy Study

Dear Chairman Mark Christie, Commissioner David Rosner, Commissioner Lindsay S. See, and Commissioner Judy W. Chang:

On May 22, 2025, Southwest Power Pool, Inc. ("SPP") filed proposed changes to its Open Access Transmission Tariff ("Tariff") to implement an Expedited Resource Adequacy Study ("ERAS Filing"), enabling load responsible entities to meet their respective resource requirements through the timely interconnection of new generation resources. We, the undersigned governors of states served in whole or in part by the SPP, write to support the ERAS Filing as a critical step to provide the generation resources necessary to support the crucial resource adequacy needs in our states.

Over the past few years, our states have seen large and accelerating electrical load growth. In the next five to ten years, our public utilities have projected unprecedented load growth caused by new load demands. This increased load coupled with the retirement of base load generation has left our public utilities in an increasingly untenable situation. Without the ability for our public utilities to obtain new generation resources immediately, our public utilities are in jeopardy of not being able to reliably serve the existing load, much less any new load additions that drive economic growth in our states. It would be detrimental to our states' economies if our public utilities are forced to reject these new load additions because they do not have the necessary generation resources. The economic growth potential of the future load additions will be

Sincerely,

Governor Sarah Huckabee Sanders State of Arkansas

Governor Jeff Landry State of Louisiana

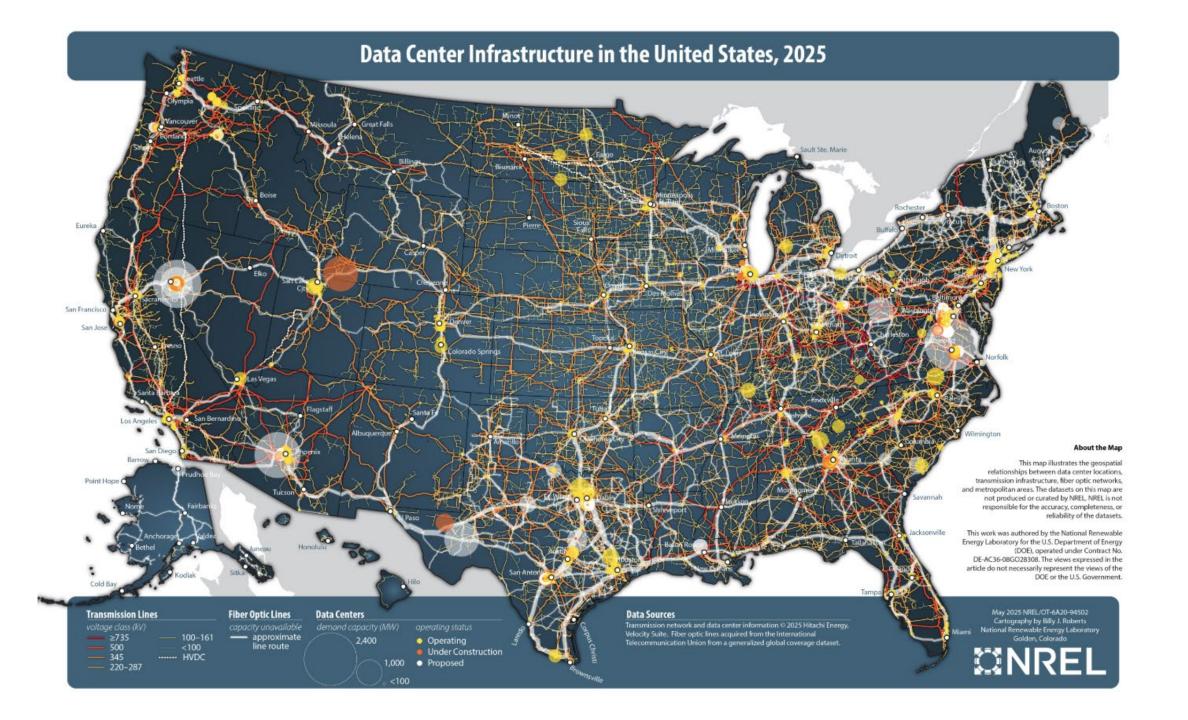
Governor Jim Pillen State of Nebraska

Governor Kevin Stitt State of Oklahoma Governor Kim Reynolds State of Iowa

Governor Mike Kehoe State of Missouri

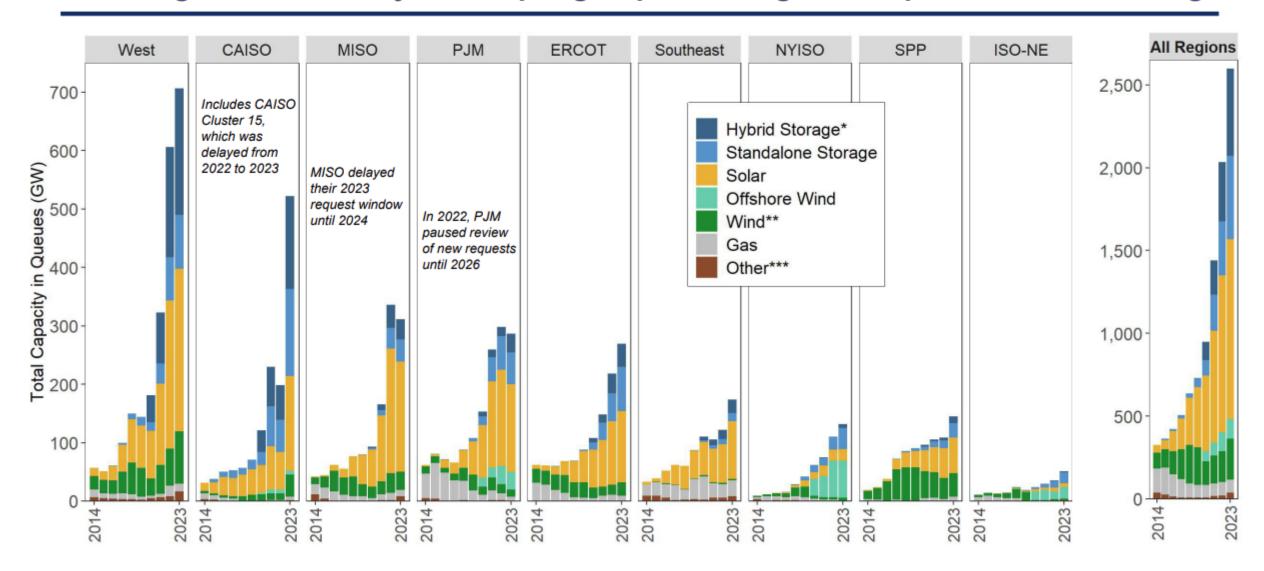
Governor Kelly Armstrong State of North Dakota

Governor Mark Gordon State of Wyoming



Appendix

Active queue capacity is highest in the West (706 GW), followed by CAISO (523 GW). Several regions have delayed accepting or processing new requests due to backlogs



Notes: (1) *Hybrid storage capacity is estimated for some projects using storage:generator ratios from projects that provide separate capacity data, and that value is only included starting in 2020. Storage duration is not provided in interconnection queue data. (2) **Wind capacity includes onshore and offshore for all years, but offshore is only broken out starting in 2020. (3) ***Other in this chart includes Coal, Nuclear, Hydro, Geothermal, and Other / Unknown. (4) Not all of this capacity will be built.

LOAD GROWTH: NATIONAL PEAK LOAD 5X INCREASE TO 128 GW

Future Growth Drivers:

- 1) Rise of Al & Data Center Growth
- 2) New Domestic Manufacturing
- 3) Increased Demand from Transportation & Buildings
- 4) Increased Oil and Gas Production
- 5) Hydrogen & Synthetic Fuel Production
- 6) Extreme Weather



For the last two decades, the utility industry has been in a period of low growth (<1% per year). Deploying sufficient generation, energy storage, demand-side resources, and transmission and distribution infrastructure will challenge existing utility planning and investment cycles as well as regulatory processes.

Sub-optimal utility planning & investment could have negative consequences for US global leadership in strategic industries (e.g. AI), domestic growth, jobs, and grid reliability



