

Ercot generation by source



Overview

In 2024 so far (January 1 to March 21), these are the top five fuel sources for the ERCOT power grid: natural gas (40. ERCOT's top 10 times for maximum solar-generated electricity in history occurred . This page provides current information on Generation Resources, including forecast and actual generation for Wind and PhotoVoltaic (Solar) Generation Resources; Resource Outages; Reliability Unit Commitment (RUC) constraints; Reliability Must Run (RMR) Resource deployments; Fuel Type; and aggregate . Since 2023, wind and solar generation, especially utility-scale solar, have been the fastest-growing sources of electricity in ERCOT and are increasingly meeting rising demand. Utility-scale solar generated 45 TWh of electricity in the first nine months of 2025, 50% more than the same period in . According to Q4 2024 data, ERCOT's annual renewable output increased by 14% during the year 2024, averaging 440. ERCOT leads in added total renewable generation capacity and achieved a record solar output of 24. 6% of ERCOT's generation in Q3 2025 Thermal generation supplied $\geq 50\%$ of ERCOT's power in 92% of - more than wind and solar combined. 3 terawatts of utility-scale capacity by fuel, region, and ownership.

Ercot generation by source



2023 STATE OF THE MARKET REPORT FOR THE ERCOT

ERCOT set the Minimum Contingency Level (MCL) to 3,000 MW and the high system-wide offer cap and value of lost load (VOLL) were reduced from \$9,000 per MWh to \$5,000 per MWh.



Fact Sheet

ERCOT manages the flow of electric power to more than 27 million Texas customers, representing about 90 percent of the state's electric load. As the Independent System Operator for

ERCOT Snapshot

The Texas Interconnection receives energy from various sources such as wind, solar, hydro, natural gas, coal, nuclear and more. While each



Electric Reliability Council of Texas

See all ERCOT contact info Resources: Updated Fact Sheet ERCOT ensures reliable electric service for 90% of the state of Texas and continues to set new records as demand grows. View the fact sheet



America's Electricity Generation Capacity, 2025 Update

Table 1.1 shows the sources from which



Grid and Market Conditions

These dashboards offer a snapshot of current conditions in the ERCOT system. The timestamp on each indicates when the information was last updated. Click the Full View link on a dashboard for an

electricity can be generated in the U.S. Natural gas facilities make up a plurality of America's current generation capacity, followed by coal, wind, and solar



Texas Electricity Generation Sources: The Future Of

As you can see from the chart above provided by ERCOT, natural gas makes up almost 45% of all power generation in Texas followed by wind

Renewable Revolution 2024: ERCOT's Top Fuel Sources

In 2024 so far (January 1 to March 21), these are the top five fuel sources for the ERCOT power grid: natural gas (40.3%), wind (29.0%), coal and lignite (12.3%),



Market Information

Market Information Market Information Grid and Market Conditions A compilation of dashboards that display current ERCOT grid and market conditions. Go to Grid and Market Conditions ERCOT

ERCOT Live Dashboard and Price Map , Grid Status

ERCOT wind is trending downward for the midday today, but is expected to rebound in the off-peak. It appears congestion along HB_North has



Supply and Demand

Supply and Demand is a graphical representation of the ERCOT system's current power supply (capacity) and demand using Real-Time data, as well as projected power supply (capacity) and

Resource Integration

This section offers steps to guide Interconnecting Entities (IEs) and Resource Entities (REs) through the interconnection process for new or modified generation interconnections within the



2025 ERCOT ELECTRICITY

As part of an ongoing series, LCG Consulting produces the ERCOT Outlook, which outlines our findings from modeling the ERCOT electricity market based on the most likely transmission, generation, and

Generation

This page provides current information on Generation Resources, including forecast and actual generation for Wind and PhotoVoltaic (Solar) Generation Resources; Resource Outages;



ERCOT increasingly meets rising demand with solar, wind, and



Grid Information

Locate important data on load, congestion, generation and transmission, including related reports.



[ERCOT Goes Live with Real-Time Co-optimization Plus Batteries](#)

The RTC+B market design change is a key element in the strategic development of the current ERCOT market. It aims to provide more flexibility in real time for ERCOT to efficiently procure



Since 2023, wind and solar generation, especially utility-scale solar, have been the fastest-growing sources of electricity in ERCOT and are increasingly meeting rising demand.



Fuel Mix

Fuel Mix is a graphical representation of energy generation broken down by resource type in Real-Time as well as for the Previous Day and Current Day.



Presentation

Each point shows the share of total ERCOT generation supplied by thermal and dispatchable sources. The farther right, the greater the share of time these sources met at least half of ERCOT's demand

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