

Hotspots on energy storage and power supply equipment

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Why do data centers need Customer-Sited energy resources?

Customer-sited energy resources and capabilities offer a faster path to power, especially as data center campuses grow.

Will new data centers outpace energy supply growth?

In its annual Long-Term Reliability Assessment, the North American Electric Reliability Corporation (NERC) warned that demand from new data centers and other large loads is expected to outpace energy supply growth.

How much electricity does a data center use?

According to Penn State's Institute of Energy and the Environment, in 2023, artificial intelligence (AI) data centers consumed 4.4% of electricity in the United States, which could triple by 2028. By 2030-2035, data centers "could account for 20% of global electricity use, putting an immense strain on power grids."

Will Exxon Mobil Supply natural gas to data centers?

Exxon Mobil wants to supply natural gas to power generators serving data centers, but only if that electricity can be decarbonized through carbon capture and storage or other technologies. Exxon and Chevron earlier this year announced plans to enter power-supply markets.

Alberta and Ontario are emerging as hotspots for data center development, while Quebec has seen limited activity due to government restrictions on new power procurement.

From Europe's energy transition strategy, to the United States' policy incentives, to the urgent need for stable power supply in Asia, Africa and Latin America, the overseas industrial and ...

Exxon and Chevron earlier this year announced plans to enter power-supply markets. Electric utilities in regions that already have a number of data centers -- like Virginia -- are hitting ...

Grid investments are forecast to increase by 23% between 2025 and 2030, following a rise of 27% between 2020 and 2025, according to analysts at Wood Mackenzie. A growing range of ...

The outlook for electric grid reliability in North America is worsening, as demand may outpace supply in the

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years ahead, according to a key watchdog. In its annual Long-Term Reliability ...

Hotspots--localized areas of excessive heat--can cause equipment to overheat, leading to degraded performance, hardware failures, and even electrical outages or short circuits if left ...

Traditional metro hot spots are being ignored due to the lack of power. Some developers are finding sites beside large wind and solar farms, but the bulk of newly announced mega-data ...

In this report, our lawyers outline key developments and emerging trends that will shape the energy storage market in 2025 and beyond.

With concerns rising over the slow pace of grid-connected capacity expansion, customer-sited energy resources and capabilities offer a faster path to power. Expansion of these resources may continue ...

Renewable energy integration and decarbonization of world energy systems are made possible by the use of energy storage technologies. As a result, it provides significant benefits with ...

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