New energy projects attract big data centers

AI Overview

The rapid growth of AI and data centers is accelerating investment in new energy projects, including nuclear, geothermal, battery storage, and other innovative technologies, to meet surging power demand.Rising Energy Demand from Data CentersData centers are becoming major electricity consumers, with U.S. centers already accounting for over 4% of national electricity use, projected to rise to 12% by 2028, largely driven by AI workloads . Globally, electricity demand from data centers is expected to double by 2030, with AI-focused centers potentially tripling their power use . This surge is equivalent to adding a top-10 power-consuming nation to the grid, highlighting the urgent need for reliable, low-carbon energy solutions .Investment in Innovative Energy TechnologiesThe data center boom is catalyzing investment in a diverse range of energy projects. Hyperscalers and governments are procuring energy from nuclear, geothermal, fuel cells, and battery storage systems to ensure stable, low-carbon power . Small modular reactors (SMRs) are gaining traction, with companies like Google, AWS, and Microsoft securing agreements to support new nuclear capacity . Advanced geothermal and long-duration energy storage are also being deployed to handle fluctuating AI workloads .Grid and Infrastructure ChallengesRapid data center expansion is straining existing power infrastructure. Grid congestion, long connection queues, and aging transmission systems are delaying new projects, particularly in high-density regions like northern Virginia and Dublin . Supply chain constraints for transformers, gas turbines, and critical minerals further complicate timely deployment . Onsite natural gas generation and battery storage are increasingly used to bridge gaps while grid upgrades are completed .Strategic Energy ProcurementData center operators are adopting an “all of the abo...

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For power procurement in the data center sector, 2024 was a landmark year. Energy demand from data centers has continued to rise, leading operators and the utilities that supply them

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How Data Centers Redefined Energy and Power in 2025

In 2025, AI demand drove data centers toward on-site power, BESS, and nuclear options, while grid delays increased. Here are the top trends that mattered.

Accelerating Power Demand from Data Centers Is

The rapid expansion of AI and new data centers is driving up global power demand. The shift is a potential boon for nuclear, geothermal, fuel cells,

States roll out the red carpet for data centers, but there''s some ...

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Data Center Power Demand | MIT Energy Initiative

With over 10,000 data centers worldwide—more than 5,000 of them located in the United States—and new facilities being built every day, the energy demand from data centers is growing rapidly. Much of

Data centre electricity use surged in 2025, even with tightening ...

Electricity demand from data centres soared by 17% in 2025, and that of AI-focused data centres climbed even faster – well outpacing growth in global electricity demand of 3%.

The future of US hyperscale data centers | McKinsey

We look at why hyperscale data centers are rapidly expanding across the United States and why the represent a major new investment opportunity.

Data centers now attract more investment than finding new oil supplies

Electricity consumption from AI data centers is expected to grow fivefold by the end of the decade, doubling the total used by all data centers today. Conventional data centers will...

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AI is set to drive surging electricity demand from data centres while ...

Another energy security concern relates to the expanding demand for critical minerals used in the equipment in the data centres that power AI. The report provides first-of-its-kind

Data centers: Catalyzing innovation in energy

Data centers are reshaping the energy sector, straining power systems but also sparking innovation across generation, grid design, and business models.

Betting big on data centers, U.S. now leads world for new gas power ...

The United States now has the most gas-fired power capacity in development — projects in the announced, pre-construction, and construction phases — surpassing China and accounting for

This is the state of play in the global data centre gold rush

Data centres are proliferating rapidly, with demand driven by AI. But energy usage, regulatory complexity and geopolitical tensions all raise questions.

Crude Oil

Crude Oil rose to 73.69 USD/Bbl on July 8, 2026, up 4.61% from the previous day. Over the past month, Crude Oil''s price has fallen 16.45%, but it is still 7.77% higher than a year ago, according to trading

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