

Data Center Energy Supply Status



Overview

This mid-year update builds on the 2025 Data Center Power Report, revealing rapid shifts reshaping the power landscape. In April and November 2024, we surveyed data center leaders directly. A new report from the IEA assesses how the relationship between energy and artificial intelligence (AI) is evolving rapidly, drawing on the latest data and analysis and close tracking of technological and economic developments in the AI sector. Building on the IEA's landmark Energy and AI report. Electricity demand for data centers worldwide is projected to grow 16% in 2025 and to double by 2030, according to Gartner, Inc., a business and technology insights company. This is according to a report by the International Energy Agency (IEA), released on Thursday.



Article Content

Hot

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

Data centre electricity use surged in 2025, even with tightening bottlenecks driving a scramble for solutions - News from the International Energy Agency

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How AI Data Centers Are Sending Your Power Bill Soaring

AI Data Centers Are Sending Power Bills Soaring Wholesale electricity costs as much as 267% more than it did five

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The Consumption of Energy by Data Centres: Implications for the

Energy Consumption by Data Centres is rising fast, reshaping electricity demand, emissions, and growth opportunities for the Global South.

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America's AI Boom Is Running Into An Unplanned Water

America's AI boom is driving a surge in data center construction—along with rising water demand. Why water is becoming the hidden

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How Meta's Data Centers Support American Energy,

Our AI-optimized data centers are an investment in the future of the US economy, and we're committed to supporting the communities where we have

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2025 Data Center Power Report

In the US, the rapid deployment of new data center capacity is a strategic priority, but there is a major bottleneck: power availability. Demand for power is only growing, while the electricity grid is aging

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5 Emerging Energy Technology Trends Shaping 2025

The United States, for its part, is increasingly focused on reshoring clean energy supply chains, from solar panel manufacturing to critical

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Lake Tahoe's power supply is being shifted to AI data centers

Lake Tahoe's major energy source is being diverted to power AI data centers - The planned cutoff has sparked "a great deal of concern" among residents and businesses worried about possible ...

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Your Sustainability Transformation Partner | Fujitsu Global

Our purpose: Make the world more sustainable by building trust in society through innovation.

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Power for AI: Easier Said Than Built | BloombergNEF

The surge of Artificial Intelligence (AI) is turning data centers into giant energy users. They are outpacing electric vehicles, hydrogen and other emerging

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Data Center Development Cost Guide

Our Data Center Development Cost Guide provides insights across U.S. markets, including building, material, land and labor costs and more.

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Atlantic International University

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

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Gartner Says Electricity Demand for Data Centers to

Electricity demand for data centers worldwide is projected to grow 16% in 2025 and to double by 2030, according to Gartner, Inc., a business and

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Data Center Energy Efficiency

FEMP sponsors the Center of Expertise (CoE) for Energy Efficiency in Data Centers. CoE helps federal agencies and other organizations implement data center energy efficiency projects by supplying

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Data center grid-power demand to rise 22% in 2025,

Data centers proliferating across the US will require 22% more grid power by the end of 2025 than they did one year earlier and will need nearly three times as much in

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Energy supply for AI - Energy and AI - Analysis

Energy supply for AI Global electricity supply to meet data centre demand Global electricity generation to supply data centres is projected to grow from 460 TWh in

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2026 Data Center Power Report

Over one-third of data centers are expected to use 100% onsite power by 2030 and developers increasingly expect permanent onsite generation to emerge as a preferred long-term approach. Next

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Review of energy efficiency and technological advancements in data ...

In summary, this review paper seeks to offer an exhaustive overview of cutting-edge research related to electricity supply systems in data centers. This encompasses current trends,

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Baker Hughes Receives Gas Turbine Order from Twenty20 Energy to

Baker Hughes will supply 10 Frame 5 gas turbines and associated equipment for data center projects in the U.S. Award marks a pivotal step toward Baker Hughes and Twenty20 Energy's

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Why are communities pushing back against data centers?

Residents are increasingly pushing back against plans to build data centers in or near their communities. Are their concerns legitimate or exaggerated? The public broadly is quite negative

May 24, 2026 Hot

Microsoft and G42 data center in Kenya stalled due to lack of power ...

Microsoft and G42 first proposed the data center in May 2024, planning \$1 billion in investment. The data center would be based in Olkaria, south-west Kenya, and target an initial

Jan 08, 2026 Hot

Nearly 50,000 Lake Tahoe residents have to find a new power ...

Roughly 49,000 Lake Tahoe residents could lose 75% of their power after their energy provider said it's directing energy to neighboring data centers.

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2025 Data Center Power Report: Mid-Year Pulse

This mid-year update builds on the 2025 Data Center Power Report, revealing rapid shifts reshaping the power landscape. As AI transforms industries worldwide,

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How AI Demand Is Draining Local Water Supplies

What those places often lack, however, is an abundant supply of water. The result is that data centers threaten local water supplies, agriculture

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Data centers "primary reason" for high PJM capacity

Load from data centers drove up revenue in the PJM Interconnection's last capacity auction by \$7.3 billion, said Monitoring Analytics. It said it is

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Data Centers and Water Consumption | Article | EESI

Besides on-site water consumption, a significant portion of data center water usage originates from the power facilities where they obtain their energy.

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Chart: Data Center Energy Consumption Surges Amid

Global electricity demand from data centers is expected to more than double in the next five years, largely driven by the widespread uptake of AI. This

Jun 09, 2026

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