

Energy Big Data Center Analysis Report



Overview

Conducted by Endeavor Business Intelligence on behalf of ZincFive, this report presents insights from 132 global industry professionals, examining current usage trends, key priorities, and evolving perceptions of energy storage. Bloom Energy, a leader in power solutions, explains in this 2025 Data Center Power Report how data center leaders are shifting paradigms and adopting innovative solutions to meet their strategic goals and economic imperatives. In April and November 2024, we surveyed data center leaders directly. This work was supported by the DOE Office of Energy Efficiency and Renewable Energy (EERE), Office of Industrial Efficiency and Decarbonization Office (IEDO) under Lawrence Berkeley National Laboratory Contract No. Six months later, the Mid-Year Pulse showed clear signs of stress— widening interconnection timelines. 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. These findings provide a clear view of the industry's trajectory and. The Technology Collaboration Programme on Energy Efficient End-Use Equipment (4E TCP), has been supporting governments to co-ordinate effective energy efficiency policies since 2008.



Article Content

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

2024 United States Data Center Energy Usage Report

The lack of direct energy data available in a sector with rapidly evolving technologies limits the analysis in this report, especially when trying to understand and estimate future energy demand scenarios.

2026 Data Center Power Report

One year ago, Bloom Energy's inaugural Data Center Power Report documented an emerging reality: AI-driven compute demand was beginning to outpace the grid's ability to deliver power at scale.

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

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2025-Data-Center-Energy-Storage-Industry-Insights-Report

The data center energy storage landscape is rapidly evolving, shaped by shifting priorities, emerging technologies, and growing AI demands. Industry professionals cite power

Data Centre Energy Use: Critical Review of Models and Results

Presented a new, narrower range of data centre energy estimates based on the high-quality studies at the global, regional, and country levels and analysis of company-level data.

World Energy Outlook 2025 – Analysis

The IEA's flagship World Energy Outlook (WEO) is the most authoritative source of global energy analysis and projections. Updated annually to reflect the latest

Data center emissions likely 662% higher than big tech

Emissions from in-house data centers of Google, Microsoft, Meta and Apple may be 7.62 times higher than official tally Big tech has made some big

Data centers and AI: How the energy sector can meet

The growth of data centers and AI rely on the availability of electric power.
Opportunities for investors in power infrastructure and adjacent sectors

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US data centers' energy use amid the artificial

Data centers accounted for 4% of total U.S. electricity use in 2024. Their energy demand is expected to more than double by 2030.

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We did the math on AI's energy footprint. Here's the

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Nvidia beat Wall Street estimates for its first-quarter revenue and earnings, and the leader of the AI revolution also announced a big dividend increase.

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Dublin, March 11, 2026 (GLOBE NEWSWIRE)-- The "Kenya Data Center Market - Investment Analysis & Growth Opportunities 2026-2031" report has been added to ResearchAndMarkets 's offering.

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Technological change, geoeconomic fragmentation, economic uncertainty, demographic shifts and the green transition – individually and in

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Oil Market Report

Oil Market Report - April 2026 - Analysis and key findings. A report by the International Energy Agency.

Executive summary - Electricity 2024 - Analysis

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BloombergNEF Finds Global Energy Transition

This increase can be attributed to acquisitions from companies in the clean power and buildings sectors gaining traction for global data center

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Global Data Center Report (2026)

The latest IDCA Data Center Report provides a comprehensive view of the global data center landscape, covering energy consumption, connectivity, security, and the rise of AI-driven

Forecasting Large Loads in the Age of AI and Data Centers

Emerging industries, such as artificial intelligence (AI) data centers, cryptocurrency operations, and advanced manufacturing, are reshaping the scale and location of electricity demand in ways that

Electricity Demand Growth and Data Centers: A Guide for the Perplexed

ANDING RECENT ESTIMATES OF DATA CENTER ELECTRICITY USE Introduction Reports of unprecedented and “explosive” growth in electricity demand from data centers—facilities that host

AI, Data Centers and Energy Demand

The growing energy demands of cloud services first, and now AI workloads (10% of today's data centers electricity demand), have exacerbated this trend. In the future, hyperscale data centers will gain

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