

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 ...

Hyperscale data centers account for approximately 40-45% of global data center energy consumption but deliver the majority of cloud computing services. Their operators have been leaders ...

The first section, overview of data centers, introduces the importance of energy efficiency in data centers and discusses the design considerations for improving power usage effectiveness ...

With significant changes observed in the data center sector in recent years, owing to the rapid emergence of AI hardware, total data center energy use after 2023 is presented as a range to reflect ...

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 ...

Currently, there are no legally binding energy standards that apply explicitly to operation of data centers in the private sector. For use within the federal government, the U.S. Department of ...

In 2025, data centers evolved from passive utility customers to active energy planners, investing in on-site generation, battery storage, and flexible demand to serve AI compute and hit ...

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 ...

With the rapid development of data centers in the United States, Pew Research Center conducted this study to learn more about energy use at these ...

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

Data centers have enjoyed discounted energy tariffs and tax incentives, as state and local governments compete to attract business. Although these early incentives have driven ...

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