

Data Center New Energy





Overview

Energy-efficient AI, battery storage systems, and renewed interest in nuclear have reshaped how data centers generate, consume, and manage energy. 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. Financing solutions in the public and private markets are increasingly critical to support this 'significant growth' and scale. Although more work needs to be done to fully understand data centres' energy consumption. By Jinghong Lyu, Senior Associate, Intelligent Mobility and Sisi Tang, China Research Manager, BloombergNEF Data center operators are actively decarbonizing their power-hungry facilities, driven by their net-zero commitments and emerging government regulations.



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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

Data Centers Face Seven-Year Wait for Dominion

Dominion Energy Inc. is expected to release earnings figures on February 22. Photographer: Minh Connors/Bloomberg (Bloomberg) -- Dominion



Maine Governor Rejects First-in-Nation Bill Pausing Data Centers

Maine Gov. Janet Mills (D) vetoed a bill that would've imposed a short-term moratorium on data centers, stopping the state from becoming the first in the US to enact a broad ban on the fast

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%.



Product Catalog



IEA: Data center energy consumption set to double by

Global electricity consumption from data centers is projected to more than double, according to an International Energy Agency (IEA) report, with

NextEra bets on gas as data center pipeline remains

NextEra bets on gas as data center pipeline remains steady at about 15 GW The company touted gas supply and pipeline acquisitions.



The renewable route for data centre expansion , The

When new, massive data centre loads and substantial renewable energy sources are connected to often legacy grid infrastructure, it can lead to



Data center sustainability , Deloitte insights

AI-driven data center power consumption will continue to surge, but data centers are not--in fact--that big a part of global energy demand. Deloitte predicts data



More durable and robust

The outer layer is made of environmentally friendly PVC, which is soft and elastic. It can be stretched without damage , so you can use it with confidence.



Data Centers and AI Energy Consumption: The Surge in

Data centers represent critical infrastructure for the modern economy, enabling everything from streaming services and e-commerce to financial

Kevin O'Leary Blames Paid Activists for Utah Data Center Protests

Kevin O'Leary is dismissing critics of his Utah data center, suggesting some of the opposition is being amplified by artificial intelligence.



In focus: Data centres - an energy-hungry challenge

Data centres are a vital infrastructure supporting our ever-growing use of cloud storage, social media, AI, streaming services and more. They're also



Power Hungry Data Centers Are Driving Green Energy

In response, operators are piloting the co-location of data centers and large renewable energy power plants to reduce grid reliance and access cheaper



Bloom Energy signs \$5bn partnership with Brookfield to

US fuel cell developer Bloom Energy has signed a \$5 billion AI infrastructure partnership with global investment firm Brookfield. The partnership

DOE Announces Site Selection for AI Data Center and

The chosen locations are well-situated for large-scale data centers, new power generation, and other necessary infrastructure. DOE looks forward to



Solaris Energy signs 500MW AI data center power deal

Houston-based energy solutions firm Solaris Energy Infrastructure has signed a long-term equipment rental deal to supply more than 500MW of



Data Centers And Renewable Energy Integration

Learn about the options for deploying renewable energy in data centers. Find out what other measures data center managers can take to improve

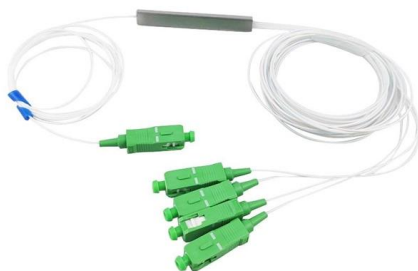
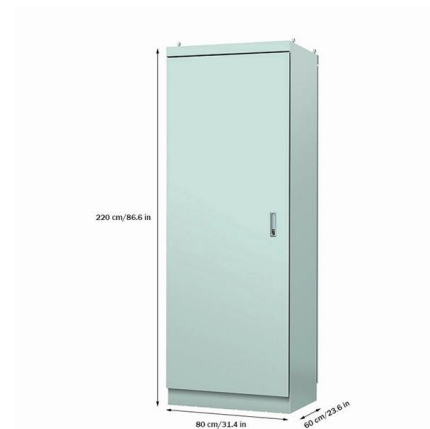


Nuclear Power Plants Far More Popular Than AI Data Centers For

Before AI, data centers spanned about 100,000 square feet and were mostly used to run internet-based businesses and for cloud computing, but the massive energy needs of the new

Lake Tahoe's main energy source is being diverted to power AI data centers

NV Energy will end about 75 percent of Liberty Utilities' Lake Tahoe electricity supply by May 2027, affecting 49,000 customers as it redirects power to AI data centers in Nevada.



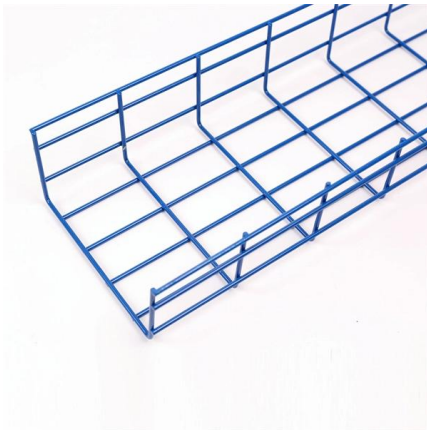
2025 ESG Report: Data centre environmental impact

The 2025 ESG Report finds that while data centre energy usage continues to rise - now accounting for more than 1.1% of global energy consumption - average



Google confirms 1GW data center campus near Detroit, Michigan,

The total footprint will exceed 800,000 sq ft (74,320 sqm). Walbridge will serve as the general contractor on the project. In addition to the gigawatt-scale data center campus, Google has

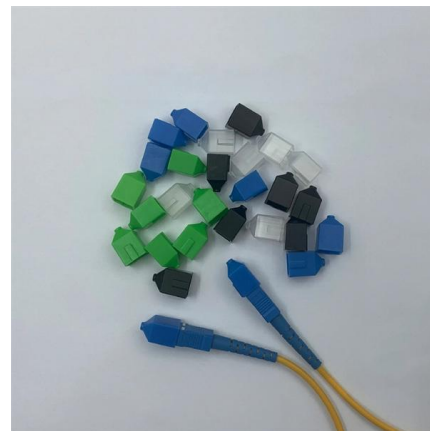


Covering electricity price increases from our data centers

Procure new power and protect consumers from price increases. We will work to bring net-new power generation online to match our data centers'

Microsoft may abandon its clean energy powered data centre targets

Microsoft may abandon its clean energy powered data centre targets The hyperscaler has been adding a gigawatt of data centre capacity, enough to power 750,000 homes, every three months



Oracle Forced to Cancel Incredibly Polluting Natural Gas

Larry Ellison's Oracle has been forced to pivot to fuel cells to power its massive New Mexico data center, yet environmental concerns remain.



Virginia House Passes Data Center Tax Exemption, With Conditions New

Clean Energy Virginia House Passes Data Center Tax Exemption, With Conditions New and existing data centers could



Hyperscale AI data centers: 10 Breakthrough

Hyperscale data centers are now powering AI models with a revolutionary architecture--at a staggering energy cost.

Global data center electricity use to double by 2026

Data center electricity usage is set to double by 2026 according to a new report, which blames the rise of power-intensive workloads such as AI and



1075KWHH ESS



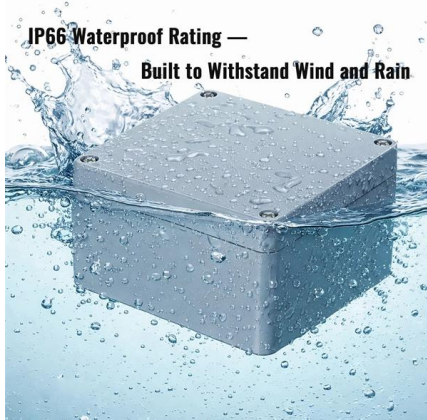
Data Center Energy Consumption: How Much Energy

Data Center Energy Consumption: How Much Energy Did/Do/Will They Eat? Plumes of steam rise above the cooling towers at Google's data center



How Renewable Energy Is Powering the Next

The integration of smart energy systems, microgrids, and AI-driven optimisation will enable data centers to not only consume energy efficiently but

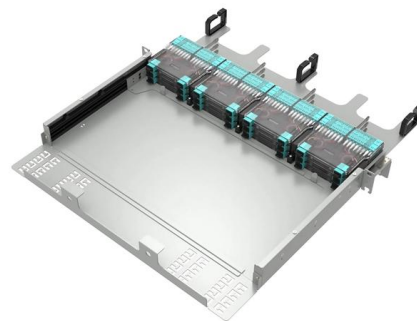


NextEra Energy targets 15GW of new generation for

In the call, the company also said it is targeting 15GW of new generation for data center hubs by 2035 through the "15 by 35" origination

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,



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