

What will happen to Internet data centers



Article Overview

Internet data centers are evolving rapidly to meet AI-driven demand, with higher energy needs, advanced cooling systems, and a shift toward high-density, specialized infrastructures.

Growth and Demand

Data centers are experiencing unprecedented growth due to the rise of artificial intelligence (AI) and digital services. Global AI spending is projected to more than double by 2028, driving demand for high-performance computing and specialized data center infrastructure . By 2030, global data center capacity is expected to reach 163 gigawatts, with U.S. electricity consumption potentially doubling to 409 terawatt-hours, largely fueled by AI workloads . This growth is prompting large-scale construction projects worldwide, including hyperscale and edge facilities .

Technological Evolution

The design and operation of data centers are shifting to accommodate higher power densities and AI-specific workloads. Rack densities are projected to increase from 36kW to 50kW per rack by 2027, with AI training centers potentially reaching 80-100kW per rack . This necessitates advanced cooling solutions, moving from traditional air cooling to liquid cooling systems, and requires structural adaptations to support heavier equipment . Additionally, AI inference workloads are becoming a focus, emphasizing real-time processing and integration with mobile and IoT ecosystems

Article Content

What is a Data Center

A data center is a secure, redundant facility for storing and sharing applications and data. Learn how they

Five Trends That Will Define The Data Center Industry In 2025

Although AI is the most significant force defining the data center industry in 2025, here are five other trends that will

The Future of Data Centers Industry | CB Insights

Often hidden in plain sight, data centers are the backbone of our internet. They store, communicate, and transport the

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Discover how data centers and hyperscalers are driving AI infrastructure growth, increasing compute power, and

Measuring the Data Center Boom: Facts and Statistics (2026)

As of July 2026, there are 11,959 data centers located across 179 countries. Demand for data centers is predicted to

7 Ways Data Centers Affect US Communities | World Resources Institute

Energy prices and water use aren't the only ways data centers affect U.S. communities. We break down the impacts

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There's still a misconception that AI data only lives in the data center. While large facilities play an important role,

The Evolution Of Data Center Infrastructure And Its Impact Ahead

Data centers, in particular, are experiencing a significant transformation. This shift is being propelled by rapid

Why the enterprise data center will thrive in the age of AI and hybrid ...

The landscape of enterprise IT has undergone a dramatic transformation in recent years, with the cloud emerging as

Top Data Center Trends 2025: Global Overview

From sustainability to 5G – find out which data center trends rule the world of technology in 2025 and what the

Data Center Trends to Watch in 2025: Expert Predictions

Key data center trends for 2025 include the growing demand for AI infrastructure, advanced sustainability measures,

Cloud and Data Centers 2026: Power, AI, and the New Infrastructure

Cloud growth now depends more on power availability than global reach or network proximity. AI workloads are

The future of data centres: how is the industry changing in the ...

This series is for anyone interested in the future of digital infrastructure, from data centre operators to designers, engineers,

Big Tech's data center boom poses new risk to US grid operators

Data Center Alley, a 30-square-mile stretch outside Washington D.C. and home to more than 200 data centers,

Why are communities pushing back against data centers?

Data centers, which house computer systems that help train AI models, are blanketing the country, a boom fueled by

AI Data Centers Impact on Electric Bills, Water, and More

AI Data Centers: Big Tech's Impact on Electric Bills, Water, and More Massive data centers are gobbling up

Why data centers could hit obsolescence sooner than you think

The number of data centers in Ireland – which thanks to its proximity to Europe and cooler climate has become a

What Will Happen to Data Centers If the AI Bubble Bursts?

With prominent figures fueling the discussion about an abrupt end of the AI boom, what impact will this have on communities that

The Truth About AI Data Centers And Why It Matters

Not every discussion about data centers is grounded in fact, and many people have limited visibility into how these

The Future of Technology Infrastructure: 8 Trends to Watch by 2026

Explore how AI, edge computing, multicloud, and sustainability are transforming technology infrastructure. Discover 8

Data Centers: 18 Challenges (And Solutions) On The Horizon

As we increasingly depend on instant access to data for work, commerce, entertainment and more, maintaining

US data centers' energy use amid the artificial intelligence boom | Pew ...

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

Data Center Market 2025: AI, Edge, and Hyperscale Expansion

Discover the 2025 data center outlook with insights on AI workloads, liquid cooling, edge computing, renewable energy

The future of data centres: how is the industry changing

"Data centre futures" examines different aspects of data centres' design, development and operation. This

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