

# Changes in Internet Data Centers

## Overview

Data centers are evolving into hybrid IT ecosystems where cloud, mainframe, and modern platforms work together. Construction continues at a new Meta data center in Beaver Dam, Wisconsin, on March 31. (Joe Timmerman/Wisconsin Watch via Getty Images) The United States has more than 3,000 operational data centers, and that number is expected to grow substantially in the years ahead. More than 1,500 new data centers are undergirding the growing use of AI by storing and processing data, text, images, code, and other information sources. Varying considerations need to be addressed as demand increases, including energy and water consumption, critical mineral requirements, permitting, investment in the sector. Opinions expressed are those of the author. Chris Sharp is CTO and Executive Vice President of Service Innovation at Digital Realty. Data centers. After a year defined by rapid scaling, accelerating GPU innovation and rising global demand, the sector now stands at an inflection point. Core technologies are advancing faster than the facilities built to support them. Need technology industry data and insights?

Connect with us today to explore how 451 Research solutions can help guide strategic decision-making. For decades, data centers have been defined by modest server rooms and predictable load profiles, today's facilities operate as large-scale electrical plants, with high-voltage distribution, modular construction, advanced cooling systems, complex grounding networks, and multilayered resiliency strategies.



## Article Content

Aug 31, 2025

Modern Data Centers: Electrical Trends, Risks, and ...

One of the most significant changes is the relocation of the medium-voltage grounding and bonding rules from Article 250 into the new stand-alone Article ...

Feb 09, 2026

The Trends Shaping the Data Center in 2026 and Beyond

The data center industry ends 2025 on the cusp of one of the most significant transformations in its history. After a year defined by rapid scaling, accelerating GPU innovation and rising global demand, ...

May 26, 2026

2025 Data Center Trends and Predictions

Discover the data center trends and industry predictions for 2025 when fiber innovation, scalability, and density will be key to AI data center network growth.

Feb 23, 2026

Data Centers in Transition: Trends & Challenges

From AI to sustainable IT strategies: Data centers are adapting to rapid changes. Discover trends and challenges shaping tomorrow's IT infrastructure.

Jan 29, 2026

2026 Trends in Data Center Services & Infrastructure

Discover the ten key trends that 451 Research analysts anticipate across data center services and infrastructure in 2026.

Nov 28, 2025

Most new data centers in the U.S. are coming to rural areas

Over 1,500 new data centers are in development nationwide. Most will be built in rural areas, particularly the South and Midwest, marking a shift from urban locations.

Dec 26, 2025

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 developments in artificial intelligence (AI), the growing need for greater...

Jul 26, 2025

The future of data centers

Undergirding this growing use of AI is the need for state-of-the-art data centers. This paper examines the future of these entities.

Aug 19, 2025

Data centers at crossroads of tech and resilience: PwC

Explore strategies for optimizing data center infrastructure to balance scalability, reliability and efficiency amid energy demands and geopolitical tensions.

Jan 03, 2026

Modern Data Centers: Electrical Trends, Risks, and NEC® 2026 ...

One of the most significant changes is the relocation of the medium-voltage grounding and bonding rules from Article 250 into the new stand-alone Article 270—a change with major implications for data ...

Jul 09, 2025

TOP 10 Data Center Trends in 2025: A Researcher Perspective

In this article, building on our decade-long research experience in data center research and development, we share our views of the TOP 10 trends shaping the future of data centers, ...

## Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://professionistidelverde.it>

Email: [info@professionistidelverde.it](mailto:info@professionistidelverde.it)

Phone: +49 176 4829 3715

Address: Friedrichstraße 123, 10117 Berlin, Germany

This document is for informational purposes only. Specifications subject to change without notice.

