

IDC Data Center Construction Lifespan



Overview

On average, the construction phase of a data center takes 18 to 30 months, while the full project lifecycle, from planning to commissioning, can span 3 to 6 years depending on the scale of the facility, regulatory approvals, and power infrastructure availability. IDC's Datacenter Facilities Index offers quantitative insights into current and forecast worldwide datacenter installation patterns through 2029. Chiller pumps and building automation systems have a useful life of 25. At the same time, many organizations are relying on older facilities that are approaching or exceeding their 10 to 15-year design lifespan. As demand for cloud computing and. This IDC study reveals significant growth in the datacenter industry, driven by digital transformation and the rise of generative AI, with a shift in measuring datacenter capacity from square footage to power.



Article Content

2026 Market Outlook for Global Data Centers | JLL

Nearly 100 GW of new data centers will be added between 2026 and 2030, doubling global capacity. The global data center sector will likely expand at

How to Build a Data Center to Last

In this blog, we'll explore the factors that influence the lifespan of data centers and delve into how fiberglass reinforced plastic (FRP) can play a crucial

Datacenter Facilities Index

IDC's Datacenter Facilities Index offers quantitative insights into current and forecast worldwide datacenter installation patterns through 2029. The index is updated

Digital Realty stock falls; \$3.5 billion stake in Blackstone data centers

Digital Realty fell in premarket trading Tuesday after it announced its buying a \$3.5 billion stake in three data centers from asset manager Blackstone.

How much capacity is in aging data centers?

As new capacity is concentrated in super-sized data centers and legacy facilities continue to operate in large numbers, market trends become

AGING DATA CENTERS

Private, aging enterprise data centers cannot compete with the custom control of a modern build-to-suit opportunity, prompting the widespread transition from owning to leasing data centers and supporting

Datacenter Facilities Index

IDC's Datacenter Facilities Index offers comprehensive insights into prevailing datacenter installation patterns, encompassing new construction, retrofits, and annual spend for construction and operation.

Real Estate Advisors & Professionals | JLL

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

Data Center Maintenance and Care: Extending Lifespan

Effective maintenance and care practices can significantly contribute to extending the life of your data center while ensuring peak performance. Read on!

IDC Watch | From Blueprint to Implementation: End-to

IDC Watch | From Blueprint to Implementation: End-to-End Data Center Construction Analysis Introduction: Data centers serve as the digital

Datacenter Critical Infrastructure Trends and Strategies

IDC examines consumer markets by devices, applications, networks, and services to provide complete solutions for succeeding in these expanding markets.

The data center life story

The tenants in the data center, meanwhile, can be like children, needing nurture and attention, sometimes being demanding, and sometimes

Huawei AI Data Center Reference Design

of multi-scenario intelligent computing centers. This manual is both a phase summary of Huawei's exploration of intelligent computing center construction and a roadmap to the next-generation data

Verne Begins Construction on 70MW Data Center Campus in

Verne has officially broken ground on a new data center campus in the Kapuli area of Mäntsälä, Finland, marking a significant expansion of its Nordic footprint. The company announced this week that

IDC Analysis of Data Center Asset Life Cycle

Putting into place a proactive data center asset life-cycle management protocol can reduce data center costs, increase the ability to respond to new business needs

Extending the lifespan of an existing data center and keeping ...

The digital economy is creating ever-increasing demand for data centers. However, the investment they represent is leading companies to seek to extend their lifespan, particularly in

Fundamentals of Managing the Data Center Life Cycle for Owners

This paper seeks to provide data center owners and managers with this understanding. Figure 1 shows the data center life cycle being composed of five fundamental phases: plan, design, build, operate,

Data center

Utah Data Center (2013) A data center is a physical room, building, or facility for the purpose of the storage, management, and dissemination of data and information,

Shut down

Summary Data centers are not decommissioned automatically after 10 years. Instead, they're designed to operate for decades. Components are refreshed continuously—IT hardware every 3–5 years

How much capacity is in aging data centers?

At the same time, many organizations are relying on older facilities that are approaching or exceeding their 10 to 15-year design lifespan. About half of the data center facilities are more than

Ada Begins Construction of 300MW Data Center in São Paulo After

After a three-year planning and permitting phase, digital infrastructure firm Ada has officially broken ground on a massive 300-megawatt data center campus in São Paulo, Brazil. The project marks a

How much capacity is in aging data centers? | Uptime Intelligence

As new capacity is concentrated in super-sized data centers and legacy facilities continue to operate in large numbers, market trends become more difficult to read. This report looks at how

Data Center Construction Statistics and Facts (2026)

Data Center Construction Statistics – Data center construction is a complex process that involves substantial investments and strict regulatory compliance. The construction timeline typically

Top 250 Data Center Companies in the World as of 2024

The top 250 data center companies comprise a mix of cloud service providers (CSPs), retail colocation firms, and wholesale data center

Plan For Entire Life Cycle When Developing A New

The answer will inform a wide range of decisions that need to be made about the data center design. For example, the answer to that question will

The Life Cycle of a Data Center

Systems that may be subject to these types of evaluations range from general building construction to each of the mechanical electrical, fire protection

Worldwide and U.S. Datacenter Installation Census and Construction ...

This IDC study reveals significant growth in the datacenter industry, driven by digital transformation and the rise of generative AI, with a shift in measuring datacenter capacity from

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