

Problems encountered in the early stages of IDC data center construction



Overview

Our latest construction report of 171 industry professionals reveals where projects succeed, where they struggle, and what changes can unlock smoother delivery. Persistent issues like rework, documentation gaps, and uneven digital adoption are pushing costs up and delaying. Data center construction presents several challenges that require strategic planning and innovative solutions. From site selection to power supply, cooling systems, and regulatory compliance, each stage has its hurdles. The path from groundbreaking to commissioning wouldn't be complete without obstacles. Construction firms working on new data. From navigating labor shortages and managing complex MEP systems to meeting evolving client expectations, this blog explores the key challenges in data center construction and how BE&K Building Group strategically addresses them to ensure successful project delivery.



Article Content

Top Challenges in Data Center Construction

Below, we explore the most common challenges plaguing data center construction and how top contractors are mitigating them with smarter

A Guide to Data Center Construction

Data center construction is in high demand with AI and data advances. Find out everything you need to know in our comprehensive guide.

Inside the Data Center Lifecycle: From Concept to

As digital demand accelerates across the globe fueled by AI adoption, cloud migration, and ever-increasing data consumption, the need for

Top Data Center Construction Challenges and Solutions

From site selection to power supply, cooling systems, and regulatory compliance, each stage has its hurdles. This article explores the top data center

Digital Transformation: The Future of Connected Construction

Construction companies are still in the earliest stages of digital transformation IDC defines digital transformation (DX) as the application of 3rd Platform technologies such as cloud, mobile, big data

Data Centers: Three Real Estate and Construction Challenges

This article is limited to just three construction and real estate challenges that we see the most, and they concern: (1) land use approvals; (2) project delays and supply chain issues; and (3)

6 Key Challenges in Data Center Construction

There are a number of issues that impact data center construction including location, site procurement & design. Here's how to address them.

6 Key Challenges in Data Center Construction

Here, we take a look at 6 key challenges of data center infrastructure builds and show how to address them. The first step in

Data Center Construction Challenges: Complexities and Solutions

Explore the key aspects of Data Center Construction, from site selection to implementing advanced cooling systems for

Five Key Causes of Delay in Data Centre Projects | FTI

Delay expert Brijes Patel outlines the common issues of delay in data centre projects and how they can be managed by optimising the construction

Navigating key construction risks on data center

The development and operation of data centres present unique challenges. In this article, we explore some of the primary legal risks associated

IDC Watch | From Blueprint to Implementation: End-to-End Data Center ...

Introduction: Data centers serve as the digital foundation of the digital economy and intelligent development. A well-planned data center can provide enterprises with efficient, secure,

Data Center Construction: A Step-by-Step Breakdown | FMP

Building a new data center for your company? This blog will give you an idea of what to expect from the data center

Tackling the 5 Biggest Challenges of the Data Center

The data center industry is facing a multitude of challenges as it strives to meet the growing demands of our increasingly interconnected world.

Data Center Projects Lifecycle – Datacenter Institute

Data center construction projects are complex and require careful planning and execution in order to be successful. The construction process

Avoiding Data Center Construction Problems

Many problems related to data center functionality are avoidable. This article describes ways to avoid data center construction problems.

Data Center Development: Full Pre-Construction Guide

Below are the eight structured stages of data center development, matched to each lifecycle phase, with specific tips for construction project managers navigating high-risk, high-speed

Data Center Development: Full Pre-Construction Guide

Data center development prepares the entire project for construction kickoff. It covers the full pre-construction scope: securing the site, grid, fiber, permits, budget, and procurement path This

IDC's Architecture and Design: Advantages and Future

Delve into IDC's cutting-edge architecture for future-ready data centers. Explore cybersecurity, multi-cloud, edge computing trends shaping

Common Challenges in Data Center Construction

Conclusion In conclusion, data center construction is a complex and challenging process that requires careful planning, execution, and management. By

Data Centers: 18 Challenges (And Solutions) On The

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

5 Key Stages of Data Center Development

4. Commissioning Commissioning is one of the most critical stages in data center development because it validates, tests, and ensures that all systems function as designed before

Data Center Construction: Costs, Timeline, and Delivery Steps

Data center construction builds secure facilities for servers, power, and cooling systems. Get costs, timelines, key steps, and tips to manage your project.

9 Challenges Faced By Data Centers In 2023 And Beyond

Running data centers during periods of economic uncertainty results in challenges to growth and expansion.

Building a Data Center: An In-Depth Guide to Construction

Building a data center is the construction process of a facility to house computer systems, storage, and IT equipment for data handling.

Top Data Center Construction Challenges Solved | DC& T

What are the biggest challenges in data center construction? Major challenges include regulatory approvals, high power density, cooling design

Fundamentals of Managing the Data Center Life Cycle for Owners

This next phase of the data center life cycle involves the detailed design work required to translate the plan phase outputs (Figure 2) into detailed, site-specific schematics and buildable construction

Architecting the Internet Data Center – Parts I-IV | StorageMojo

Architecting the Internet Data Center – Parts I-IV Introduction: Internet Scale vs Enterprise Scale The rise of the Internet Data Center (IDC), such as Amazon, Google and Yahoo, in the last 10 years is

How Long Does It Take to Develop a Data Center?

Learn how long it takes to develop a data center with a step-by-step timeline, covering site selection, permitting, construction, and infrastructure setup.

How to Design and Build a Data Center

Take on data center design by factoring in these considerations, including space, power, cooling, performance, security, management and future

Data Centers: Three Real Estate and Construction Challenges

Proper planning and organization are a must to avoid or mitigate supply chain issues from which many projects — data centers included — suffer. Design deficiencies and construction defects

Data Center Construction Timeline: Phases, Duration

Building a modern data center is a complex, multi-year process that involves planning, engineering, infrastructure development, and specialized

The Five Steps of Building a Data Centre

The timeline for building a data centre can vary wildly depending on regulatory, logistical, and budgetary concerns. A simple 2 MW colocation facility

Top 8 Data Center Construction Challenges and How

Building a data center is no small feat. With the increasing demand for cloud services, storage, and data processing, organizations are investing

Accelerating Data Center Construction: Challenges and

These technological solutions collectively address the key challenges in data center construction, paving the way for more efficient, compliant, and future-ready

Top Challenges in Data Center Construction

Data centers are springing up everywhere, but they are risky. Here's how to navigate the issues that derail builds and avoid the most costly mistakes.

Overcoming the Top Challenges in Data Center

The challenges of data center construction are not going away, but with the right approach, they can be effectively managed. Success begins with

Overcoming the Top Challenges in Data Center

From navigating labor shortages and managing complex MEP systems to meeting evolving client expectations, this blog explores the key

DCD>Survey: Data center construction

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