

# IDC Data Center IT Construction Plan



## AI Overview

A successful IDC data center construction implementation plan follows a structured lifecycle from planning and design to implementation and operational readiness, integrating technical, financial, and sustainability considerations. Key Phases of Implementation

- 1. Planning Phase** This phase establishes the foundation for the project, including IT load forecasting, site selection, and capital structuring. Accurate IT load validation ensures alignment with grid capacity and energization timelines. Site selection involves evaluating power availability, fiber connectivity, zoning, geological stability, and water access for cooling systems. Environmental impact assessments and community engagement are critical to secure permits and local support. Capital structuring ensures funding aligns with procurement milestones and investor requirements, reducing delivery risk and avoiding delays.
- 2. Design Phase** The design phase translates requirements into detailed construction documents. It covers critical systems such as redundant power distribution, precision cooling, fire suppression, and structural support for high-density IT equipment. Energy efficiency, green standards, and low-carbon objectives are integrated into the design to optimize long-term operational costs. Building Information Modeling (BIM) and virtual reality walkthroughs enhance coordination, clash detection, and stakeholder visualization before construction begins.
- 3. Implementation and Construction Phase** Construction involves coordinating specialized trades while maintaining strict quality control. Key activities include concrete pours for raised floors, electrical grounding and bonding, mechanical system balancing, and installation of IT racks and network infrastructure. Integrated Project Delivery (IPD) models are often used to align owners, designers, and contractors, promoting early collaboration, shared risk, and faster project delivery. Real-time monitoring through IoT sensors and drone surveys ensures progress tracking and risk mitigation.
- 4. Delivery and Close-Out Phase** This phase e...

## Article Content

### Data Center Construction Projects: Complete Guide

Master data center construction projects from planning to completion. Learn costs, timelines, best practices, and emerging trends.

### A Guide to Data Center Construction

With Autodesk Forma (formerly Autodesk Construction Cloud), data center construction can be more efficient, sustainable, and forward-thinking.

### China Data Centers

Data Centers in China with map. List of available providers and facilities in China, including Colocation, Bare Metal Servers, and IaaS Data Centers.

### Technical Specifications for Construction and Management of

When the technical specifications herein have been applied to new construction, renovations, and operation of Special Access Program Facilities (SAPFs), those facilities shall satisfy the standards

### IDC's data center predictions: A 3-year outlook

The global data center market will transform over the next few years as companies modernize their data center facilities, shift to more software-defined infrastructure, and adopt more

### Quick guide to data centre design phases and disciplines

Data centre design and construction phases Realising and delivering a data centre consists of multiple steps. Each step has its own set of best practices

### A data center planning and design guide for IT pros | TechTarget

IT pros have more data center planning and design options -- on-premises, cloud, edge and software-defined computing -- than ever before, but still need to allocate financial resources wisely. Learn how

### Basic Construction of IDC Data Center

Basic Construction of IDC Data Center Learn how to design and build a data center with this 8-step guide. Explore key components, best practices & requirements for a secure, scalable facility.

### Data Center Design and Construction: A Complete Guide

Learn how to design and build a data center with this 8-step guide. Explore key components, best practices & requirements for a secure, scalable facility.

### Viettel IDC Data Center Project Overview | PDF

The document outlines the design and planning of the Viettel IDC Data Center located in the Hoa Lac High-Tech Industrial Park, Hanoi, covering an area of 2.8 hectares.

## AI Infrastructure in 2025: Balancing Datacenter and Cloud Investments

As AI adoption grows, datacenter, cloud infrastructure, and operations teams will need support new standalone and embedded AI workloads, each with its own computing and data management

True IDC invests over 10 billion baht in the data center

Bangkok, January 31, 2024, True Internet Data Center Company Limited, also known as True IDC, a leading provider of data center and cloud services in

## IDC Watch | From Blueprint to Implementation: End-to-End Data

In this article, we delve into the entire process of data center design, construction, and operation, focusing on the underlying design logic of end-to-end data centers.

## IDC | Trusted Tech Intelligence

Navigate the changing tech landscape with IDC's trusted intelligence and insights from 11 billion data points.

## How to Build a Data Center: 2026 Project Plan

Learn how to build a data center step by step, including cost, timeline, land needs, AI requirements, project planning and construction risks.

## Internet Data Center (IDC) design, planning and construction

In recent years, the IDC construction has seen rather big changes on space, hardware, air-con, power and management, in which the central thinking has included the concept of module on design (MOD).

## 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.

## Latest Press Releases

New strategic analytics command center turns operational data from across contact center, field service, and self-service into a live, executive-ready view of business impact  
NEW YORK, July 8, 2026

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

Description Worldwide and U.S. Datacenter Installation Census and Construction Forecast, 2024-2028 This IDC study reveals significant growth in the datacenter industry, driven by

## Data Center Development: Full Pre-Construction Guide

Data center development covers land, power, permits, and construction. Get clear guidance, checklists, and tools to plan every phase. Use this data center project plan template to

#### Datacenter Facilities Index

The index is updated annually. It encompasses capital spending for non-IT datacenter facilities, including racks for new construction, retrofits, and existing installed base. It also tracks annual opex spend for

#### Viettel Begins Construction of Vietnam's Largest Data Center

Viettel has begun constructing Vietnam's largest data center in Ho Chi Minh City, aiming for 140MW capacity, 10,000 racks, Uptime Tier III certification, and completion by 2030.

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

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

#### Data Center Vision: How Data Center Infrastructure Will Evolve to ...

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## Contact Us

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