

Estimated Costs of IDC Data Center Construction



Overview

Costs range from roughly \$10 million for smaller builds to over \$1 billion for hyperscale facilities. The final number depends on power density, redundancy requirements, and market conditions. Size is important, but design choices and execution discipline shape the true. The data centre market is entering a new era, driven by the explosive growth of artificial intelligence (AI) and surging global demand. This helps businesses stay competitive, agile and. Data center construction costs vary widely based on scale, location, and execution strategy. Before we unpack the line items and benchmarks, it's worth grounding the conversation in one question every operator asks first: what does it actually cost to build one?

How Much Does It Cost to Build a. Wondering about Data Center Cost?

Looking to build a data center?

This article breaks down the main expenses, from building your own facility to outsourcing. markets, including building, material, land and labor costs, material and equipment lead times, labor availability, and more.



Article Content

Data center

A high-availability data center is estimated to have a 1 MW demand and consume \$20,000,000 in electricity over its lifetime, with cooling representing 35% to 45%

Data centre construction cost index 2025-2026 | Turner & Townsend

Now in its ninth year, the Data centre construction cost index 2025-2026 remains the industry's only cost index focused exclusively on construction. It offers unmatched global insights to help businesses

Data center construction costs by location 2025| Statista

In 2025, Tokyo was ranked as the most expensive market worldwide for data center construction.

How Much Does it Cost to Build a Data Center?

How much does it cost to build a data center, including construction of the building, and equipping the facility with power and cooling infrastructure to

Data Center Construction Costs Explained

Data center construction costs average \$10-\$12 million per MW, and AI-optimized facilities can reach as high as \$20+ million per MW. Mechanical, electrical, and

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Deconstructing the Data Center: A Look at the Cost

By analysing a benchmark 100-megawatt facility and exploring the different data center models, we explore the immense upfront investments and

Data Center Construction Costs 2026: \$/MW, \$/sqft & Drivers

2026 data center build costs by capacity, region, and tier. Why \$/MW is climbing, how labor and power are reshaping budgets, and what GCs are quoting now.

Memory Chip Shortage 2026: HBM Takes 23% of

Data Centers Now Consume 70% of All Memory Chips Produced Perhaps the most striking statistic of the 2026 memory chip shortage is the share

Data Center Construction Costs: Complete Budgeting

Building a data center costs millions, if not billions. Discover the key cost components, hidden logistics expenses, and how technology investment

Data Center Infrastructure Cost Analysis 2025:

Data center infrastructure costs are escalating under the weight of AI adoption, sustainability regulations, and regional constraints. The smartest

2026 Semiconductor Industry Outlook | Deloitte Insights

And what could that mean for the semiconductor industry, especially if non-data center markets such as the PC, smartphone, and automotive sectors remain

Building data centers bigger, faster | McKinsey

At giga scale, additional layers of redundancy result in additional costs and complexity for data center construction, commissioning, and operation.

Data center

Large data centers operate at an industrial scale, requiring significant energy. Estimated global data center electricity consumption in 2024 was around 415

Data Center Buildout Cost: Complete Pricing Guide

Data center buildout costs depend heavily on factors like facility size, geographic location, tier classification, and the workload type. Every project is different, but the industry has

Breaking Down Data Center Cost: Building vs. Outsourcing

Wondering about Data Center Cost? Looking to build a data center? This article breaks down the main expenses, from building your own facility to outsourcing.

Data Center Development Cost Guide

Our Data Center Development Cost Guide provides insights across U.S. markets, including building, material, land and labor costs, material and equipment lead

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. Use this data center project plan

An Overview of Data Center Costs (All You Need to Know)

Data center construction costs can range from \$10 million to over \$100 million, depending on size, location, and infrastructure requirements. Intuva Solutions

Breaking Down Data Center Cost: Building vs. Outsourcing

Building a data center requires a hefty upfront investment, often exceeding initial estimates, driven by land, essential systems, and unpredictable construction

Topic: Data center construction in the United States

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