

Cost Budget for Large-Scale IDC Data Center Construction



Overview

Data center construction costs average \$10-\$12 million per MW, and AI-optimized facilities can reach as high as \$20+ million per MW. 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. How Much Does It Cost to Build a Data Center?

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. McKinsey analysis finds that globally, capital expenditures on data center infrastructure (excluding IT hardware) are expected to exceed \$1. 7 trillion by 2030, largely because of the expansion of AI, the proliferation of edge computing, and advancements in high-performance computing (HPC). Here is what each one will cost to deploy.



Article Content

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

Data Center Buildout Cost: What To Expect & How To Budget

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

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

This year's report draws on a global survey of 250 experts. It covers 52 markets, providing a broader view of construction costs across both established and emerging hubs. It includes an index ranking

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

Data Center Development Cost Guide

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

Data Center Cost Breakdown: Full CapEx & OpEx

This article outlines a full breakdown for a mid-sized (5,000 sq ft, ~800 kW load) Tier II/Tier III data center. From land acquisition to lighting OpEx, every

Best Data Center Build Out Cost: Top 5 Key Factors

Discover the key factors influencing data center build out costs. Learn about costs per square foot, regional variances, and tier certifications.

Constructing Data Centers Cost & Strategy & Guide

An architect's layman-friendly guide to constructing data centers covering costs, materials, design, and power solutions to help you plan smartly

Data Center Construction costs and timeline for 10MW Power Blocks

What Is The Minimum Budget Required To Launch Data Center Construction Lean? You must fund large early inventory and factory capex before revenue, or you will hit a negative cash

How Much Does It Cost to Build a Data Center? Key

When examining how much does it cost to build a data center check our guide for expenses design equipment and location factors.

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

The State of AI: Global Survey 2025 | McKinsey

The full set of management practices align with our broader Rewired research, which is based on more than 200 at-scale AI transformations. They

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

Building data centers bigger, faster | McKinsey

McKinsey analysis finds that globally, capital expenditures on data center infrastructure (excluding IT hardware) are expected to exceed \$1.7 trillion by 2030, largely because of the

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.

Data Center Construction Cost Guide

Data center costs move first with land and power. Site prices, utility access, and electrical systems consume a large share of the budget before a single server rack goes in. MEP and cooling systems

Data Centre Build Costs: Budgeting and Cost

Understand the real costs of building a data centre, from land and power to cooling infrastructure. A practical cost breakdown for facility planners and operators.

How Much Does it Cost to Build a Large Colocation Data Center in

The total cost of building a large colocation data center with N+1 redundancy in Hyderabad is estimated to be around USD 4.1 million (INR 35 crores) per MW of IT load. This

Gartner for Information Technology (IT) Leaders

Gartner's strategic advice, trusted insights and practical tools helps IT leaders identify opportunities for innovation and tackle their mission-critical priorities.

Data Center Infrastructure Cost Analysis 2025:

8. Conclusion: Aligning Budgets with Future Demands Data center infrastructure costs are escalating under the weight of AI adoption, sustainability

How Much Does It Cost to Start Construction on a Data Center?

Understand the cost of building a data center. Our guide covers all aspects, from land acquisition to equipment installation, for better budgeting.

Building data centers bigger, faster | McKinsey

For large-scale data centers, the labor shortage is further exacerbated: Thousands of workers are required to be on-site during peak construction,

Contact Us

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

Website: <https://fivesunsecoenergy.fr>

Email: sales@fivesunsecoenergy.fr

Phone: +33 6 41 83 57 29

Address: 5 Rue de la Bourse, 75002 Paris, France

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