

UAE Modular Data Center Construction Case Study



Overview

As a part of the Dubai 10X initiative to make Dubai 10 years ahead of world cities, Moro Hub announced the kickoff of building its largest sustainable Uptime TIER III Certified Data Centre in the world located at Mohammed bin Rashid Al Maktoum Solar Park - the largest single-site. As a part of the Dubai 10X initiative to make Dubai 10 years ahead of world cities, Moro Hub announced the kickoff of building its largest sustainable Uptime TIER III Certified Data Centre in the world located at Mohammed bin Rashid Al Maktoum Solar Park - the largest single-site. The most optimal data center solution meets today's organizational demands for sustainability, data sovereignty, and cybersecurity while delivering high performance optimized for Industry 4.0 (4IR) technologies like AI and driving ambitious projects like Smart Cities. The brief required a layout capable of supporting critical IT infrastructure, staff workspaces, and specialist equipment, while taking advantage of the. Dubai Airports will partner with Huawei to design and build the world's first Tier III certified Modular Data Centre Complex (MDCC) at Dubai International (DXB), it was announced today. The design and construct contract was signed during GITEX Technology Week, one of the biggest annual ICT trade. To meet evolving IT infrastructure demands and improve energy efficiency, a leading enterprise in Dubai initiated the upgrade of its existing server room by implementing a Cold Aisle modular data center system. The objective was to enhance cooling performance, optimize space utilization, and ensure. The UAE is transforming into a global data center hub, driven by AI, sovereign cloud, and hyperscale investments. Image: Alamy As the Middle East's.



Article Content

Nov 21, 2025

Evolution of Data Center Design: Modular Construction ...

Reframing Data Center Construction Modular design and construction have proven beneficial for data center

Feb 12, 2026

Case study: Modular data center units improve energy efficiency

The National Bank of Abu Dhabi (NBAD)'s project to create a modular data center (MDC) solution, also provides

Mar 04, 2026

Efficient Cooling Transformation: Dubai Cold Aisle Modular Data

To meet evolving IT infrastructure demands and improve energy efficiency, a leading enterprise in Dubai initiated the

Apr 08, 2026

The Complete Guide to Modular Data Center Solutions

Cooler data centers – Prior to the introduction of modular data center solutions, cooling was primarily the biggest data center

Aug 01, 2025

The Modular Data Center Ultimate Guide

A modular data center is a quick, flexible, and cost-effective way to boost your data storage.

Sep 15, 2025

Modular Data Centers: The Rise and the Advantages

Modular Data Centers: The Rise and the Advantages Document Author: Delta Power Solutions Product covered: Datacenter

Mar 04, 2026

Why Modular Data Centers Are Gaining Momentum

Modular data centers are purpose-built to offer flexibility and scalability to adapt to evolving

Dec 28, 2025

What are Modular Data Centers and How Can They Help?

TL:DR Modular data centers use prefabricated modules to overcome supply chain constraints, permit delays &

Sep 13, 2025

UAE Data Center Construction Market Size, Share, Trends & Industry ...

The UAE Data Center Construction Market worth USD 2.22 billion in 2026 is growing at a CAGR of 17.42% to reach

Aug 21, 2025

UAE Modular Data Center Market | 2019 – 2030 | Ken Research

The study integrates 60 structured interviews (qualitative deep dives) and 300 online surveys (quantitative validation)

May 14, 2026

UAE Data Centers: Powering the Middle East's AI Revolution

Cushman & Wakefield's 2025 global comparison ranked Abu Dhabi and Dubai as the top two emerging data center

Aug 04, 2025

Intel and e& UAE Collaborate on Sustainable Modular Data Centers

Given the substantial environmental footprint of data centers, improving sustainability has become a priority. e& UAE and Intel are

Oct 10, 2025

Moro Builds the MEA Largest Tier III Sustainable Data

To achieve Moro Hub's vision, the company has selected a greener alternative to traditional brick and

May 01, 2026

EcoStruxure™ Modular Data Centre

Transforming data centre design and construction, modular data centres conquer space challenges and support quick scaling in

Jan 31, 2026

Modular Data Centers: An Ideal Solution for Digital Growth in the ...

Prefabricated data halls offer a modular and scalable solution for IT datacenter creation or expansion, providing an efficient

Mar 21, 2026

Data Centre | UAE Modular Solution | Maxi Space

Two alternative building arrangements were created to demonstrate different configurations of server capacity, cooling systems, UPS

Oct 22, 2025

Modular Data Centers: Practical Use Cases for Your Enterprise

Another use case is integrating edge computing for improved operational efficiency. "Edge computing is poised to

May 10, 2026

Khazna breaks ground on two data centers in Abu Dhabi

The two data centers will use a modular design architecture, which is intended to improve efficiency during the build

Mar 28, 2026

Khazna Data Centre

Southend Prefabricated Houses delivered a specialized modular site office complex for the Khazna Data Center Project. This

Jun 29, 2026

MDC Presentation MB

Designing electrical systems for prefabricated modular data centers presents several unique challenges due to their modular, pre

Jul 01, 2026

Dubai Airports and Huawei to build world's first Tier 3 designed ...

Dubai Airports will partner with Huawei to design and build the world's first Tier III certified Modular Data Centre Complex

Oct 23, 2025

Moro Hub Case Study

Moro Hub, a Digital Dubai Electricity and Water Authority (DEWA) company, established its Green Data Center, powered by Intel®

Aug 07, 2025

Unlocking success in modular construction | McKinsey

Modular construction can address some of the construction industry's most pressing

Jul 29, 2025

10 Examples of Modular architecture around the world

In Delhi, farming families are often at risk of losing their lands due to legal action, so this project makes the

Jan 27, 2026

UAE Modular Data Center Market Size And Outlook 2033

According to Verified Market Reports, the UAE Modular Data Center Market is valued at \$0.7 Billion in 2025 and is projected to reach

Aug 15, 2025

Building UAE's Data Center Alley: From Vision to Reality

In Parts 1 and 2 of this series, we explored the UAE's potential to become a global data center hub and outlined the

Jun 18, 2026

United Arab Emirates (UAE) Modular Data Center Market (2021

United Arab Emirates (UAE) Modular Data Center Market Synopsis The United Arab Emirates (UAE) modular data center market

Oct 05, 2025

Exploring Modular Data Centers: Benefits, Design, And

Understand the benefits and design considerations of modular data centers, including

Mar 19, 2026

Latest List of Top 7 Data Center Projects in UAE 2026

List of upcoming data center projects in the UAE for 2026, featuring Microsoft, G42, du, Stargate UAE,

Aug 19, 2025

Top 100 Modular Data Center Construction Companies in United Arab ...

When exploring the Modular Data Center Construction industry in the United Arab Emirates, several key factors come into play. The

Jun 29, 2026

Modular Data Centers: When They Work, and When They Don't

Modular data centers offer fresh opportunities for the industry, but that doesn't mean they are right for every occasion.

Feb 03, 2026

UAE Modular Data Center Market Report: Size, Growth, Trends

UAE Modular Data Center Market size was valued at \$ 300.7 Mn in 2024 & is projected to reach \$ 1130.29 Mn by 2032, growing at a

Contact Us

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