

High-density modular data center in the Maldives

Article Overview

The Maldives now hosts high-density modular and Tier-certified data centers, including containerized facilities in Hulhumale and Tier III/Tier IV-ready centers by Dhiraagu, offering scalable, resilient, and geo-redundant IT infrastructure.

Modular and Containerized Data Centers

The Housing Development Corporation (HDC) has launched a containerized data center in Hulhumale, operated under its SmartCom brand. This facility uses an ISO-standard shipping container design, featuring a redundant battery backup system capable of 24 hours and an 80 kW backup generator, providing reliable power continuity for IT operations. The modular design allows for rapid deployment across islands, making it ideal for the Maldives' geographically dispersed atolls. The project also supports geo-redundancy services for SMEs, enhancing business continuity at competitive rates .

Tier-Certified Facilities

Dhiraagu operates the first Tier IV certified data center in Hulhumale, ensuring 99.995% uptime with fully redundant infrastructure, fault-tolerant systems, and advanced cooling and fire suppression mechanisms. Additionally, Dhiraagu has a Tier III Ready data center on N. Velidhoo Island, designed for concurrent maintainability, allowing planned maintenance without service interruptions. These facilities provide low-latency cloud services, high efficiency, and robust business continuity, critical for resorts, SMEs, government agencies, and other enterprises .

Advantages of Modular High-Density Deployment

- o Scalability: Modular units can be expanded or relocated as demand grows.
- o Rapid Deployment: Prefabricated containers reduce construction time compared to traditional facilities.
- o Resilience: Redundant power, cooling, and network systems ensure continuous operation even during maintenance or outages.
- o Geographic Flexibility: Ideal for the Maldives' island topology, minimizing latency and improving service delivery across atolls .

Local Expertise and Construction Management

Companies like DC Deployed provide specialized data center construction management in the Maldives, handling site surveys, feasibility studies, MEP coordination, and pre-construction planning. Their expertise ensures that modular and high-density data centers meet international standards while adapting to local climate



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and logistical challenges .

Summary

The Maldives now offers a combination of modular containerized data centers and Tier-certified facilities, providing high-density, resilient, and scalable IT infrastructure. These solutions are particularly suited for the country's dispersed geography, supporting cloud services, business continuity, and low-latency operations for enterprises, government agencies, and tourism-related businesses .

6Wresearch actively monitors the Maldives Modular Data Center Market and publishes its comprehensive annual report, highlighting

The partnership will focus on promoting and deploying the Vertiv(TM) Smart Solutions global edge and modular data

Data center construction in 2026 demands tighter schedules, higher power density, and unified controls. Learn how

However, in contrast, modern modular data centers are conceived, produced, and tested off-site concurrently with site preparation,

According to the latest research by Omdia, demand for prefabricated modular and micro data center solutions has

Modular data centers: 5 form factors, what's inside, economics, and when prefabricated wins over traditional builds for

Vertiv MegaMod CoolChip solution integrates best-in-class technologies, including high-density liquid cooling, to

Ooredoo Maldives today launched the first ever tier-3 ready Data Centre in the Maldives,

The partnership will focus on promoting and deploying the Vertiv(TM) Smart Solutions global edge and modular data centers (MDC)

BladeRoom Data Centres is part of BRG Technologies, which has over 30 years" experience providing innovative, high technical



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

The Prefabricated Modular EcoStruxure Pod Data Center is now shipping pre-designed and

In a major leap toward strengthening digital infrastructure in the Maldives, Dhiraagu has unveiled its new Colocation

Historical Data and Forecast of Maldives Data Center Market Revenues & Volume By IT & Telecom for the Period 2021-2031

Ooredoo Maldives today launched the first-ever tier-3 ready Data Centre in the Maldives, providing unparalleled

A new containerized data center has been launched in Hulhumale in the Maldives. The Housing Development

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