

Construction of a New Energy Data Center in Libya

Article Overview

A new prefabricated energy data center is being deployed in Tripoli, Libya, through a public-private partnership between Trans-Sahara and Tatweer, aimed at providing private cloud services to government and local businesses.

Project Overview

The upcoming data center in Tripoli will be a Huawei FusionModule1000A containerized facility, designed for rapid deployment and scalability. It will primarily serve government agencies and local companies, offering private cloud services and supporting the financial sector with PCI DSS-compliant infrastructure to ensure secure payment processing and data management (Trans-Sahara and Tatweer) . The facility is expected to be operational early next year.

Stakeholders and Partnerships

- o Trans-Sahara: A regional telecommunications company and member of the HB Group, responsible for IT resource facilitation and operational management.
- o Tatweer: A public sector entity under the Libyan Local Investment & Development Fund (LLIDF), focusing on research and public service solutions.
- o The project represents a public-private partnership, combining Tatweer's public sector insights with Trans-Sahara's technical expertise .

Technology and Design

The data center will utilize prefabricated modular construction, allowing faster deployment and high-quality standards. This approach ensures scalability, redundancy, and energy efficiency, which is critical given Libya's challenges with electricity stability and infrastructure . The facility will also integrate with global cloud and IT ecosystems, providing flexible colocation services, connectivity, and remote management options .

Strategic Significance

- o Supports Libya's digital transformation and modernization of IT infrastructure.
- o Enhances government and financial sector capabilities with secure, compliant cloud services.
- o Aligns with broader energy and infrastructure initiatives, including Libya's ongoing power grid modernization and renewable energy projects, which aim to stabilize electricity supply and support industrial growth .



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Challenges

Operating a data center in Libya involves navigating political unrest, electricity instability, and infrastructure limitations. The Tripoli facility is designed to mitigate power fluctuations and ensure continuous operations despite these challenges. Prefabricated modular design and strategic site selection help address these risks while maintaining compliance with international standards.

Conclusion

The Tripoli energy data center represents a strategic investment in Libya's digital and energy infrastructure, leveraging public-private collaboration, modular construction, and advanced cloud technologies. It is poised to enhance government services, financial operations, and broader IT capabilities while addressing the unique operational challenges of the region.

In 2013, the Libyan government launched the Renewable Energy Strategic 2013-2025 Plan, which aims to achieve 7% renewable

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A massive buildout of data center capacity is underway. BloombergNEF has tracked 22.8 gigawatts of IT capacity (or



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In a major step toward improving renewable energy, the United Nations Development Programme (UNDP) brought

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