

Oman Energy Internet Equipment Technology



AI Overview

Oman is leveraging advanced ICT, IoT, and AI technologies to modernize its energy sector, integrating smart grids, renewable energy, and high-speed internet infrastructure under Vision 2040. Digital Transformation in Oman's Energy Sector

Oman's Vision 2040 emphasizes a knowledge-based economy and sustainable energy development, promoting the integration of Internet of Things (IoT), Artificial Intelligence (AI), and blockchain into energy systems to enhance efficiency, reliability, and transparency. The Ministry of Energy and Minerals targets renewable energy to reach 30% of the energy mix by 2030, 70% by 2040, and 100% by 2050, requiring advanced digital solutions for monitoring, predictive maintenance, and decentralized energy management.

Smart Metering and IoT Integration

A key initiative is the National Advanced Metering Infrastructure (AMI) Project, a partnership between Nama Electricity Distribution and Omantel. IoT-powered smart meters provide real-time energy consumption data, enabling customers to manage costs and utilities to optimize grid efficiency, integrate renewable sources, and reduce energy losses. Omantel supports this with secure networks, cloud solutions, and AI-powered analytics, ensuring scalability and reliability.

Telecommunications and ICT Infrastructure

Oman's ICT sector is expanding rapidly, with Omantel, Ooredoo, and Vodafone providing high-speed broadband and 5G networks. Companies like Tawoos Power & Telecommunications have deployed over 40% of Oman's telecom tower infrastructure, supporting both energy and internet connectivity with hybrid power systems, solar solutions, and 24/7 network operations. Otech provides cloud, IoT, AI, and cybersecurity solutions, enabling energy companies to deploy resilient, high-performance digital infrastructure.

Renewable Energy and Intelligent Technologies

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Oman Internet of Things (IoT) in Energy Market is expected to grow during 2025-2031

Tawoos Power & Telecommunications

Tawoos Power and Telecommunications (TPT) was incorporated in 1989 to support the development of power and telecom infrastructure in Oman.

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This study evaluates the determinants affecting the adoption of intelligent technologies in Oman's renewable energy sector, providing data-driven insights to support policy development and industry

Oman Energy Digital Twin Market | 2019 - 2030 | Ken Research

The Oman Cloud-Based Digital Twin Platforms for Energy Market, valued at USD 1.2 billion, is growing due to digital tech adoption in oil & gas and renewables, with key players like Siemens and GE.

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Empowering Oman's Energy Future: The Smart

By leveraging Internet of Things (IoT) technology, the smart meters transmit real-time data, enabling both customers and providers to better

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Oman Internet of Things (IOT) in Utility Market is expected to grow during 2023-2029

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