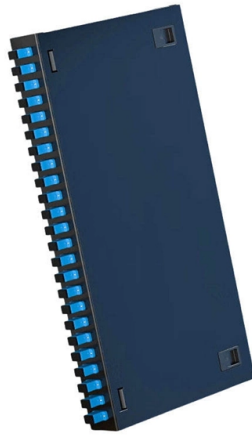


Enterprise-side Energy Internet



AI Overview

The Enterprise-side Energy Internet enables grid companies and enterprises to integrate smart energy management, digital transformation, and distributed energy resources for optimized efficiency and sustainability.

Concept and Architecture

The Energy Internet is a system that combines energy networks with information and communication technologies (ICT) to manage, route, and optimize energy flows similarly to how the Internet routes data. Enterprises use energy routers (ERs) to control energy distribution, analogous to communication routers, enabling scalable, reliable, and intelligent energy management across distributed energy resources (DERs) such as solar, wind, and biomass. This architecture supports integration with smart grids and cloud computing platforms, allowing real-time monitoring, predictive analytics, and automated energy optimization.

Benefits for Enterprises

Enterprise adoption of the Energy Internet provides several advantages:

- Enhanced energy efficiency through optimized utilization of distributed energy resources.
- Digital transformation by leveraging cloud computing, big data, and AI for energy management.
- Operational flexibility in industrial smart manufacturing and smart home services.
- Sustainability and social value, as enterprises can reduce carbon emissions and contribute to clean energy goals.
- Market competitiveness, by enabling new energy services and business models, including integrated energy services and energy trading.

Development Path for Grid Enterprises

Grid companies and large enterprises typically follow a phased approach:

- Integrated energy and cloud computing services: Prioritized for immediate efficiency gains and digital integration.
- Industrial smart manufacturing and smart home services: Expanding energy management to production and consumer applications.
- Agriculture, rural services, and new retail energy services: Longer-term development to leverage regional energy potential and social impact.

This path considers market potential, company...

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Emerging technologies such as blockchain and cryptocurrency facilitate energy trading and can be designed in the cloud layer of an Internet of Things platform to supplement data storage.

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Therefore, a new energy paradigm is known as the “Energy Internet” that combines economics, energy, and technology in an open, equal, and coordinated fashion.

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Planning and Scheduling for Industrial Demand-Side Management

This paper analyzes the opportunities and challenges of industrial demand response under the integration of Industrial Internet and Energy Internet.

From cost centre to nerve centre of the Energy enterprise

Energy enterprises have many advantages that they can harness, but only if they fundamentally change. That requires not only new capabilities, but new ways of organising the capabilities and the operating

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