

Energy Internet Platform for the Construction Industry



Article Overview

Energy Internet Platforms integrate smart grids, IoT, and data-driven energy management to optimize construction energy use, enhance sustainability, and reduce operational costs.

Overview

An Energy Internet Platform in the construction industry refers to a digital ecosystem that connects energy generation, distribution, storage, and consumption systems through advanced communication networks and intelligent control technologies. These platforms enable real-time monitoring, predictive analytics, and automated energy optimization across construction sites and buildings, supporting both operational efficiency and environmental sustainability ().

Key Components

1. Smart Grids and Advanced Metering Infrastructure (AMI): Smart grids form the backbone of energy internet platforms, allowing bi-directional communication between utilities and construction facilities. They enable real-time load management, fault detection, and integration of renewable energy sources like solar and wind. AMI provides granular energy consumption data, facilitating dynamic load balancing and automated energy distribution (). 2. Building Management Systems (BMS): Modern BMS act as the central control hub, integrating HVAC, lighting, security, and other building systems. By leveraging IoT sensors and machine learning algorithms, BMS...

Article Content

International Atomic Energy Agency

On Monday, 8 June, Director General, Rafael Mariano Grossi, briefed the Board of Governors on the IAEA's efforts to support

Energy construction enters the digital age | BUILD UP

Digitalisation is revolutionising the energy construction sector. New tools are streamlining costs, accelerating project

Buildings

The figures below show the latest findings in this sector as of June 2026. The data for these figures is from World Energy Outlook

What Is Energy Internet? Concepts, Technologies, and Future Directions

To realize renewable-energy-based electrification goals, a new concept the Energy Internet (EI) has been proposed, inspired by the

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