

Entering the Energy Internet Industry



Article Overview

The Energy Internet industry combines digitalization, decentralization, and renewable integration, offering opportunities in virtual power plants, distributed energy resources, AI-driven grid management, and peer-to-peer energy trading.

Understanding the Energy Internet

The Energy Internet is a multidisciplinary framework that integrates electricity, information and communication technologies (ICT), artificial intelligence (AI), and energy storage to create a flexible, decentralized, and efficient energy system . It enables homes, businesses, and communities to act as both consumers and producers of energy, often referred to as prosumers . Key components include virtual power plants (VPPs), distributed energy resources (DERs), energy routers, and integrated energy hubs . The system leverages IoT, blockchain, digital twins, and AI to optimize energy flows, enhance resilience, and enable peer-to-peer energy trading .

Market Opportunities

The Energy Internet is rapidly expanding. For example, the global VPP market was around \$5 billion in 2024 and is projected to triple by 2030 . Companies like AutoGrid, Swell Energy, and OhmConnect aggregate distributed devices such as home batteries and solar panels to bid capacity into wholesale electricity markets, effectively turning individual assets into dispatchable grid resources . This creates opportunities for startups, technology providers, and energy service companies to participate in grid optimization, demand response, and energy management solutions....

Article Content

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Energy Internet is an innovative concept based on synergy of multi-energy systems including electricity, gas, cooling and transportation.

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Digital Transformation: Shaping the Future of the Energy Industry

This article discusses what's driving the energy industry to digitize and embrace renewable sources. We'll also

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