

Pioneers in the Energy Internet



Article Overview

The Energy Internet industry is being advanced by pioneering companies and startups developing integrated, AI-driven, and multi-energy systems that enhance grid flexibility, efficiency, and sustainability.

Overview of the Energy Internet

The Energy Internet is a multidisciplinary concept that integrates electricity, transportation, heating, and other energy vectors into a smart, interconnected system. It leverages AI, IoT, cloud computing, and blockchain to optimize energy generation, distribution, and consumption across homes, industries, and cities. Key components include energy routers, energy hubs, virtual power plants, and multi-energy storage systems, enabling real-time energy management, carbon tracking, and peer-to-peer energy trading .

Leading Innovators and Startups

Several companies and startups are recognized as pioneers in this field:

- Emerald AI: Develops software that makes AI data centers power-flexible, transforming them into intelligent grid assets .
- HT Materials Science: Engineers advanced heat-transfer fluids to improve energy efficiency in HVAC systems for industrial and data center applications .
- Point2 Technology: Creates radio frequency semiconductor interconnects for faster, energy-efficient communication in AI-driven energy systems
- Base Power: Operates distributed residential battery networks that balance the gr...

Article Content

Nov 21, 2025

A comprehensive review of Energy Internet: basic concept ...

Abstract With the intensifying energy crisis and envi-ronmental pollution, the Energy Internet and corresponding patterns of energy

Dec 26, 2025

Recent advancement of energy internet for emerging energy

This article deals with a thorough investigation of the energy internet towards future emerging technologies for energy

Aug 31, 2025

Energy Internet: Concept and practice exploration

Under the situations of energy crisis around the world, Energy Internet has become the focus of international academic and industrial

Mar 23, 2026

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

The climate change crisis, exacerbated by the global dependency of fossil fuels, has brought significant challenges. In the medium to

Jun 20, 2026

Energy Internet: Redefinition and categories

Energy Internet (EI) is an energy ecosystem, with physical layer, information layer and value layer combining energy

Mar 26, 2026

List of Internet pioneers

Other Internet pioneers, who made notable contributions to the development of the Internet but do not

Dec 20, 2025

A State-of-Art Review on Energy Internet and Internet of Energy ...

Energy Internet (EI) is an innovative approach that uses information technology to optimize energy systems" performance both from

Mar 16, 2026

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

Oct 14, 2025

Energy Internet, the Future Electricity System: Overview, Concept ...

Energy Internet, a futuristic evolution of electricity system, is conceptualized as an energy sharing network. Its features, such as plug

Feb 11, 2026

Advancing the Energy Internet: Innovations and Solutions for a ...

The Energy Internet represents a transformative paradigm integrating advanced power systems, distributed

Sep 28, 2025

The Energy Internet

Integrating renewable energy with Internet connectivity can help to sustain economic development and reduce poverty without

Jul 30, 2025

IEEE PES EICC Energy Internet Coordinating Committee

We are aimed at bringing new Internet thinking, Internet technologies, and sharing economies to the next generation energy network.

Mar 15, 2026

Energy internet

Application of emerging IoT technologies in energy systems: metaverse, digital twin, smart sensing, blockchain, etc. Virtual power

Feb 20, 2026

Energy Internet: A Novel Green Roadmap for Meeting the Global Energy ...

Energy Internet has caught an attention of the global academic community, and it is being implemented actively. This paper

Aug 18, 2025

Overview of Energy Internet | Springer Nature Link

In 2004, The Economist first proposed the construction of an intelligent, automated, and self-healing Energy Internet

Nov 06, 2025

Development status and prospects of the Energy Internet

The Energy Internet is a new energy ecosystem based on electricity with high penetration of renewable energy, high

Apr 16, 2026

Overview of Energy Internet | Springer Nature Link

In the 1970s, the concept of Energy Internet began to emerge. In 1986, Peter Meisen founded the Global Energy

Mar 09, 2026

Development and Prospect of Key Technologies of Energy Internet ...

Firstly, the essential concept and main features of the energy Internet are expounded. Secondly, according to the

Aug 06, 2025

IEEE Access Special Section: Emerging Technologies for Energy Internet

Renewable energy sources such as photovoltaic (PV), wind, tidal, and ocean waves have increasingly penetrated the

Jun 27, 2026

Smart Grid to Energy Internet: A Systematic Review of Transitioning ...

The concept of Energy Internet has emerged from the limitless possibilities of energy sharing networks formed by

Aug 09, 2025

A comprehensive overview of framework for developing sustainable energy ...

Abstract Energy Internet (EI) envisions a future energy system with sustainable concerns of efficiency, economy and

Jul 16, 2026

Recent advancement of energy internet for emerging energy

All the highlighted insights of this review collectively inspire advancements in the energy internet platform for future

Sep 29, 2025

A Survey on Energy Internet: Architecture, Approach, and Emerging ...

Energy crisis and carbon emission have become two seriously concerned issues universally. As a feasible solution,

Jan 23, 2026

The Energy Internet

Researchers, academics, engineers, consultants and policymakers will gain a thorough understanding of the Energy Internet that

May 06, 2026

Energy Internet: Redefinition and categories

In this paper, we propose the redefinition of EI, based on a comprehensive literature review, some latest trends and

May 07, 2026

New Technology Pioneers Are Building the Infrastructure for the Next ...

Companies are developing cleaner energy sources, improving cancer detection, increasing industrial efficiency,

Oct 13, 2025

Key Technologies for the Energy Internet | Springer Nature Link

Energy Internet (often reflects Internet plus energy) is a novel energy network that interconnects the power system

Dec 22, 2025

Energy Internet Pioneer Award (EIPA)

Energy Internet Pioneer Award abbreviated as EIPA, is presented to a respected professor/scientist/engineer for his/her pioneering

Jul 09, 2026

Energy Internet

As an integration of energy technology and information communication technology, "Energy Internet" is the new driving

Jun 04, 2026

The Emerging Energy Internet: Architecture, Benefits, Challenges, and ...

The benefits of the energy Internet, along with the challenges of its implementation on a large-scale distributed

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