

Internet New Energy Sub-sectors



Article Overview

New energy sub-sectors encompass renewables, power and utilities, energy storage, electric mobility, and digitally enabled energy services, each with distinct business models and technological drivers.

Core Sub-Sectors

- **Renewables** This includes solar, wind, hydro, and emerging technologies like offshore wind and advanced bioenergy. Renewables are central to decarbonization and are increasingly integrated with digital monitoring and predictive analytics to optimize generation and grid interaction .
- **Power and Utilities** Traditional electricity generation, transmission, and distribution are evolving with smart grids, demand response, and digital metering. Utilities are adopting IoT and AI to improve efficiency, reliability, and customer engagement .
- **Energy Storage and Batteries** Storage technologies, including lithium-ion, solid-state, and flow batteries, are critical for balancing intermittent renewable generation. Digital platforms manage storage dispatch, grid integration, and energy arbitrage .
- **Electric Vehicles (EVs) and Charging Infrastructure** EV adoption drives demand for electricity and smart charging networks. Sub-sectors include vehicle manufacturing, battery supply chains, and connected charging services, often integrated with grid management systems .
- **Oilfield Services and Traditional Energy** While fossil fuels remain part of the energy mix, digital tools optimize exploration, production, and midstream operations. This includes predictive maintenance, remote monitoring, and AI-driven efficiency improvements .
- **Digital Energy Services** Emerging sub-sectors focus on software, AI, and IoT solutions for energy management, predictive analytics, and virtual power plants. Th...

Article Content

Aug 02, 2025

Energy Sub-Sectors → Area → Sustainability

These divisions categorize the complex processes of energy production, conversion, transmission, distribution, and consumption,

Sep 11, 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

Sep 17, 2025

Electricity 2026 – Analysis

Against this backdrop, Electricity 2026 – the IEA's annual report on global electricity systems and markets

May 01, 2026

Energy Sub-Sectors → Area → Sustainability

Sense → Energy Sub-Sectors are distinct divisions or specialized segments within the broader energy industry, characterized by

Sep 20, 2025

Kresge Research Guides: Energy Industry: Industry Overviews

This guide highlights Kresge databases and relevant web sites for those interested in research topics in the energy

Jan 05, 2026

NATURAL RESOURCES SECTORS & SUB-SECTORS 2023-2024 ENERGY SECTOR

NATURAL RESOURCES SECTORS & SUB-SECTORS 2023-2024 ENERGY SECTOR CLEAN ENERGY TECHNOLOGIES : solar,

Oct 20, 2025

China's New Energy Industry Sub-sectors Outlook

Overall, the new energy industry is set for favorable progress with the backing of supportive policies. Specifically, the

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Renewable energy industry

The renewable-energy industry is the part of the energy industry focusing on new and appropriate

Sep 22, 2025

Energy Internet: Redefinition and categories

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

Mar 16, 2026

Evolution of smart grids towards the Internet of energy:

The integration of smart grids (SG) and the Internet of Things (IoT) using new technologies

Apr 01, 2026

Global Industry Classification Standard

In 2018, the telecommunication services sector was renamed communication services. The sector was expanded to include media

Jan 28, 2026

Towards next generation Internet of Energy system: Framework and

The integration, security and energy management challenges may deviate the performance of the IoE technology that

Apr 17, 2026

Understanding Energy Sub-Sectors: [PART 1] – Jay Lowe's Blog

I'll outline the roadmap in this article and then delve into each of the sub-sectors in separate articles, as each represents multiple

Feb 25, 2026

Internet matters: The Net's sweeping impact on growth,

The Internet accounts for a significant and growing portion of global GDP. Internet-related

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Clean Energy Innovation – Analysis

Decarbonising these sectors will largely demand the development of new technologies not yet in use. And many of the

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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

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Towards next generation Internet of Energy system: Framework and

The Internet of Energy (IoE) has indeed revolutionized energy efficiency, making it one of its primary applications.

Oct 05, 2025

Energy Sub-Sector Map: Upstream, Midstream, Downstream, OFS,

Understanding the full sub-sector map is the foundation for navigating the cross-sector deal flow that defines modern

Apr 20, 2026

(PDF) The Emerging Energy Internet: Architecture ...

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

Aug 27, 2025

A comprehensive overview of framework for developing sustainable

Challenges and future trends for sustainable Energy Internet are discussed from cyber, physical and social space aspects.

Jun 20, 2026

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

With the intensifying energy crisis and environmental pollution, the Energy Internet and corresponding patterns of

Sep 03, 2025

Smart homes, smarter grids: the "Internet of Energy" and the way to net ...

What's more, the International Energy Agency reports DERs are a main driver of the global transition to net zero

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Emerging information and communication technologies for smart energy ...

Since the energy sector is the dominant contributor to global greenhouse gas emissions, the decarbonization of energy

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5 problems the internet of energy can solve

With the advent of the internet of things, these two revolutions are rapidly converging and ultimately will result in an

Jun 22, 2026

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

Energy Internet integrates small-scale renewable energy systems, electric loads, storage devices, and electric

Jun 16, 2026

Internet Thinking for Layered Energy Infrastructure

Huge shifts in the structure and functionality are brewing in the sector of power and energy with the wide deployment

Feb 17, 2026

NATURAL RESOURCES SECTORS & SUB-SECTORS 2023-2024

CLIMATE CHANGE ADAPTATION (CCA) placements refer to activities that address observed or projected changes in climate, with

Dec 09, 2025

Digitalization and Energy – Analysis

Digitalisation and Energy - Analysis and key findings. A report by the International Energy Agency.

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