

# Trends in Internet-based Smart Energy Development



## Overview

Artificial intelligence, digital twins, and IoT are reshaping operations, while cybersecurity and data-driven decision-making are becoming essential enablers of resilience and innovation. As utilities and energy providers adapt to evolving customer expectations, regulatory pressures, and global sustainability goals, the adoption of digital. The rise of IoT-based Smart Grid Systems is central to this growth, revolutionizing how energy is managed and distributed. In this rapidly evolving landscape, Matellio offers specialized IoT development services. As demand for advanced energy solutions escalates, our expertise in crafting efficient. Leaders gathering at the World Economic Forum Annual Meeting 2026 will explore how the ethical use of emerging technologies can solve real-world challenges. The world's largest AI data centres (also known as AI factories).



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IoT-Based Smart Grid System Development:

IoT-based smart grid systems are pivotal in transforming the energy sector, offering enhanced efficiency and reliability. The integration of IoT leads

IoT in energy: a comprehensive review of technologies, applications ...

The work further delves into IoT in the energy sector aspect and explores the latest advancements and challenges in the field of IoT, including IoT in energy generation, smart cities,

Smart Technologies for a Sustainable Future: IoT and AI in Renewable Energy

Remote regions all over the world continue to face issues with energy poverty and inadequate access to reliable power sources. This research article investigates the potential adoption of smart grid and

Evolution of smart grids towards the Internet of energy:

To achieve low-carbon sustainable energy development, new technologies such as Internet of Energy (IoE), intelligent systems and Internet of

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As electrification, automation and digital intelligence converge, the energy landscape is transforming from linear, centralized systems to omni

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Discover the cutting-edge technologies driving digital transformation in the energy sector, transforming operations, integrating renewables, and enhancing resilience. From AI and IoT to

Top 10 Trends and Innovations in Digital

Discover the top 10 trends and innovations in digital transformation for the energy industry. Learn how technologies like AI, IoT, and blockchain are reshaping

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Smart grids, which integrate modern Internet of Things (IoT) technology and renewable energy sources to boost efficiency, sustainability, and dependability, are

Internet of Things for smart energy systems: A review

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The main applications of IoT in smart energy systems consisting of smart industries, smart homes and buildings, and smart cities are explored and

Digitalization and Energy - Analysis

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

Top Strategic Technology Trends for 2026 | Gartner

Explore Gartner's Top Strategic Technology Trends for 2026 — 10 trends that will shape innovation, resilience and trust across industries. Learn how CIOs can

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