

Preview

With battery storage additions exceeding 75 GW annually, over 9000 energy startups driving innovation, hydrogen capacity pipelines crossing 200 GW, and data center demand projected to surpass 1000 TWh by 2030, grid modernization, AI integration, resilience, and cybersecurity. With battery storage additions exceeding 75 GW annually, over 9000 energy startups driving innovation, hydrogen capacity pipelines crossing 200 GW, and data center demand projected to surpass 1000 TWh by 2030, grid modernization, AI integration, resilience, and cybersecurity. As the European Union advances towards its 2030 climate targets and the revised Energy Efficiency Directive, energy companies are investing heavily in digital tools that optimise operations, reduce emissions, and strengthen energy security. It provides a comprehensive assessment of recent progress and emerging challenges in energy technology innovation, drawing on over. Ember's seventh annual Global Electricity Review provides the first comprehensive overview of changes in global and country-level electricity generation in 2025, based on reported data. It presents current trends and implications for electricity sources and power sector emissions in the near. Leaders gathering at the World Economic Forum Annual Meeting 2026 will explore how the ethical use of emerging technologies can solve real-world challenges. Artificial intelligence (AI) is redefining global energy infrastructure. The world's largest AI data centres (also known as AI factories). From AI-powered infrastructure to breakthrough battery technology, the global energy landscape is undergoing its most dramatic transformation in decades.

The second edition of The State of Energy Innovation turns the spotlight on the technologies, policies and funders at the forefront of energy

Stay ahead of the curve with the latest technology trends! Explore cutting-edge innovations shaping our world, from AI to blockchain. [Read more!](#)

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

Discover how IoT energy management, digital twins, and energy software development drive innovation. [Explore real-world clean energy tech](#)

Which scientific breakthroughs are poised to expand their reach or become commercially viable at scale in 2026? Our CAS Science Team has identified eight emerging trends encompassing

Gain strategic business insights on cross-functional topics, and learn how to apply them to your function and role to drive stronger performance and innovation.

Latest Trends in the Energy Internet

The latest breaking UK, US, world, business and sport news from The Times and The Sunday Times. Go beyond today's headlines with in-depth

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

ITPro Today, Network Computing, IoT World Today combine with TechTarget Our editorial mission continues, offering IT leaders a unified brand with comprehensive coverage of enterprise

The IEEE Computer Society released its 2026 Technology Predictions Report, with AI, the Electric Grid, and medicine topping the list.

From AI-powered protocols and real-world asset tokenization to next-gen Layer 2s and Web3 security, 2026 could reshape crypto. Explore the

Key features of the energy internet such as energy sources, communication technologies, data computation, energy management systems and financial analysis are highlighted to enhance

Key technology trends shaping 2026 include AI automation, clean energy breakthroughs, spatial computing, and emerging systems transforming

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,

Explore the top 10 energy industry trends, covering green hydrogen, AI, nuclear growth, microgrids & top startups driving the transition.

Is your website helping or hurting your growth? Discover the top web design trends for 2026 and how businesses can use them to stay competitive.

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