Energy storage capacity requirements on the power generation side

Energy storage capacity requirements on the power generation side

[Major Policy Breakthrough! China Officially Includes New-Type Energy]

On January 30, 2026, National Development and Reform Commission (NDRC) and National Energy Administration (NEA) jointly issued Notice on Improving Generation-side Capacity Pricing

[Giving buildings an "MRI" to make them more energy-efficient and]

Founded by a team from MIT, Lamarr.AI utilizes drones, thermal imaging, and AI to identify energy waste and structural issues in buildings and recommend retrofits.

[State Siting Authority of Energy Storage Facilities]

Before beginning construction, any electric or gas facility, including stand-alone storage, in New York must receive a Certificate of Public Convenience and Necessity from the state's Public Service

[New facility to accelerate materials solutions for fusion energy]

The new Schmidt Laboratory for Materials in Nuclear Technologies (LMNT) at the MIT Plasma Science and Fusion Center accelerates fusion materials testing using cyclotron proton beam

[Optimal sizing and placement of energy storage system in power]

In practice, high energy density ESS, e.g., pumped hydro energy storage (PHES) and compressed air energy storage (CAES), can store energy for long-term which are appropriate for

[MIT engineers create an energy-storing supercapacitor from ancient]

MIT engineers created a carbon-cement supercapacitor that can store large amounts of energy. Made of just cement, water, and carbon black, the device could form the basis for

[Energy storage on the electric grid , Deloitte Insights]

This report provides a comprehensive framework intended to help the sector navigate the evolving energy storage landscape. We start with a brief overview

The Future of Resource Adequacy

Distributed generation and storage resources such as rooftop solar, behind-the-meter batteries, and electric vehicles with advanced bidirectional charging systems can provide cost-effective energy and

[Understanding ammonia energy's tradeoffs around the world]

MIT Energy Initiative researchers calculated the economic and environmental impact of future ammonia energy production and trade pathways.

Energy storage for electricity generation

Energy storage technologies for electricity generation: types, applications, and data.

[America's Electricity Generation Capacity, 2025 Update]

Table 2.5 shows the total energy storage capacity (for projects 1 MW or more) by development stage. Energy storage is getting added alongside - and standalone from - these capacity projects.

Energy storage

Meeting rising flexibility needs while decarbonising electricity generation is a central challenge for the power sector, so all sources of flexibility need to be tapped,

[How artificial intelligence can help achieve a clean energy future]

A look at how AI can be used to help support the clean energy transition by helping to manage power grid operations, plan infrastructure investments, guide the development of novel

Explained: Generative AI's environmental impact

MIT News explores the environmental and sustainability implications of generative AI technologies and applications.

[A new approach could fractionate crude oil using much less energy]

MIT engineers developed a membrane that filters the components of crude oil by their molecular size, an advance that could dramatically reduce the amount of energy needed for crude oil

[MIT Energy Initiative conference spotlights research](#)

At the MIT Energy Initiative's Annual Research Conference, industry leaders agreed collaboration is key to advancing critical technologies amidst a changing energy landscape.

[Next-generation geothermal energy: Promise, progress, and challenges](#)

Geothermal energy, a clean, continuous energy source accessible in many locations, has been slow to catch on. Nearly 2,000 years ago, the Romans made extensive use of geothermal

[Mexico updates distributed generation rules to formally integrate](#)

The new provisions published by the country's energy regulator are aimed to adjust the technical and administrative criteria for distributed generation, particularly with regard to energy

Battery Storage Fact Sheet October 2025

Energy storage supports the electric grid by storing excess power - such as midday solar - and delivering it when generation is low, including during cloudy days or calm, windless periods.

Making clean energy investments more successful

New research emphasizes the importance of well-validated models and forecasting tools in evaluating choices for investments in clean energy technologies and policies by governments and

Contact Us

For catalog requests, pricing, or partnerships, please visit: https://www.xaviergmphoto.es