

The First Principles Playbook, by Tech for Net Zero, helps cut through the complexity of the energy system by asking the fundamental question: Which energy sources can deliver low ...

Recently, the German Federal Court of Justice (BGH) issued a landmark ruling confirming that local grid operators have the right to charge grid connection fees (BKZ) for energy storage projects. This decision not only directly impacts the ...

On July 4, 2025, President Trump signed into law the One Big Beautiful Bill Act (H.R. 1 119th Congress) (OBBBA), which significantly changes the clean energy tax credit landscape established by the Biden administration pursuant to the ...

On July 18, 2025, the Council of the European Union approved a two-year extension of gas storage regulations, requiring member states to achieve a 90% storage level by December 1 ...

India-UK Vision 2035: Nations to Deepen Collaboration on Energy Storage, Grid Transformation Under the India-UK Vision 2035, the two countries aim to drive ambitious energy security and ...

This approach minimizes energy loss and maximizes usable electrical output--ideal for devices in locations where conventional energy sources are unfeasible. Why Infrared Wavelengths ...

Neopentane, a branched alkane with the chemical formula  $C_5H_{12}$ , has emerged as a promising candidate for advanced battery storage solutions. The evolution of battery technology has ...

Agência Nacional de Energia Elétrica (ANEEL), Brazil's electricity regulator, will publish initial energy storage regulations in the second half of 2025, with two additional consultation ...

According to a latest report from market intelligence firm Clean Energy Associates (CEA), the U.S. energy storage system (ESS) battery manufacturing capacity is facing severe challenges. As ...

Increased Focus on Solar Energy: The city plans to accelerate rooftop solar panel installations by providing incentives for residential and commercial properties. Integration of Energy Storage ...

Existing battery projects in California and Texas see upside, while hybrid storage bets in the Midcontinent Independent System Operator (MISO) territory and the Southeast face shrinking margins under the revised tax credit rules.

Its low boiling point, high vapor pressure, and excellent thermal stability make it an attractive option for



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various energy transfer processes. The primary objective of utilizing 2 ...

This paper establishes a joint clearing model for energy storage participation in electricity and frequency regulation markets, optimizing power resource allocation through market-oriented ...

The Clean Electricity Investment Tax Credit under Section 48E of the Internal Revenue Code (IRC) represents a pivotal incentive for advancing zero-emission electricity generation and ...

Phase-change microcapsules offer significant advantages for thermal energy storage and regulation. However, conventional mechanical agitation fabrication methods encounter ...

This comprehensive guide will help residential solar & energy storage installers/distributors avoid common solar battery installation mistakes, ensuring long-term, reliable energy storage ...

As the UK accelerates toward a low-carbon future, the need for flexible, reliable, and intelligent energy infrastructure has never been greater. At Dale Power Solutions, our Battery Energy ...

on the proposal for a regulation of the European Parliament and of the Council amending Regulation (EU) 2017/1938 as regards the role of gas storage for securing gas supplies ahead of the winter season. (COM ...

Germany's Federal Network Agency is consulting on a proposed overhaul of its grid-fees to introduce a General Grid-Fee System (AgNES). Battery energy storage systems (BESS) are currently exempt from the charges and Voltwise's ...



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