

1 day ago The modular, low-energy system offers high selectivity and cost efficiency, illustrating progress toward deployable biochemical capture solutions. Europe's CO₂ transport and ?

Jun 1, 2025 Progress on thermal storage technologies with high heat density in renewables and low carbon applications: Latent and thermochemical energy storage

3 days ago The development combines associated large-scale hydrogen, thermal, and natural gas storage capacity in geo-storage features, known as the salt caverns. During periods of low ?

Apr 29, 2024 At the beginning of this year, the NEA released a list of 56 new-type energy storage pilot demonstration projects, including 17 lithium-ion battery projects and 11 ?

3 days ago Recently, multiple new energy storage projects across China have reached important milestones. In Shandong, Xinjiang, Hebei, Qinghai, and Inner Mongolia, several 100-MW-level ?

Sep 1, 2025 Climate change mitigation efforts require innovative solutions to reduce GHG emissions. CCUS is a crucial technology for achieving a low-carbon economy. However, ?

Apr 15, 2018 Given the substantial role of VRE resources in low-carbon energy scenarios as well as the importance of electricity storage and hydrogen technologies for enabling VRE ?

Apr 30, 2025 Explore how our expertise in molecule management positions us to scale a portfolio of lower emissions energy solutions through our Low Carbon Solutions business.

Mar 26, 2025 Energy Storage Systems (ESS) play a vital role in enabling a greener energy landscape by ensuring a stable and efficient power supply while reducing fossil fuel ?

Apr 4, 2024 There are different options for decarbonizing industrial applications, such as electrification, energy efficiency measures, low-carbon fuels, and carbon capture.

Mar 29, 2025 In recent years, improvements in energy storage technology, cost reduction, and the increasing imbalance between power grid supply and demand, along with new incentive ?

Mar 1, 2025 These findings highlight the importance of considering both low-carbon generation and energy storage technologies for achieving low-carbon emissions targets effectively within ?

Nov 15, 2025 Foreword Stepping up efforts to develop new energy storage technologies is critical in driving renewable energy adoption, achieving China's 30/60 carbon goals, and ?

Jun 1, 2025 The CCES projects, including carbon dioxide battery in Italy and carbon dioxide storage demonstration system in China, have also been completed. This paper carries out a ?

Oct 25, 2021 2 On the importance of the LCER FI award, Minister for Trade and Industry Mr Gan Kim Yong said: "As an alternative energy-disadvantaged country, we have to invest early in ?

Sep 25, 2023 On the other hand, short- or long-term energy storage (e.g., the use of low-cost flow batteries, Li-ion batteries, compressed air energy storage, pumped hydroelectric storage, ?

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