

The commercialization process of energy storage patents affects the development of the energy storage industry. Clarifying the relationships between the characteristics of the applicants and patent transfer can facilitate technology transfer. In this study, China's energy storage patent data from 2009 to 2021 were divided by the rolling period.

Patent Application No: 201741010719. Invention Title: A vehicle with housing for removably retaining at least a portable energy storage device. Description: The invention is a novel vehicle that consists of a housing assembly to retain one ...

: (???), "", "", ??? ...

We've also secured a patent for LEPO, solidifying our innovative approach and unique technology in the energy storage sector. LEPO MK2 TRL8. ... we are exhilarated by its potential to transform how both individuals and industries approach energy storage. The future is modular. The future is enduring. The future is sustainable.

Download Category: Energy storage technologies patent landscape Silicon Anode for Li-ion Batteries Patent Landscape Analysis 2024 Who are the key players and newcomers in the ...

Employment in the coal industry in the United Kingdom; Energy consumption by source; Energy embedded in traded goods as a share of domestic energy; Energy imports and exports; Energy intensity World Bank; Energy intensity; ...

To date, various energy storage technologies have been developed, including pumped storage hydropower, compressed air, flywheels, batteries, fuel cells, electrochemical capacitors (ECs), traditional capacitors, and so on (Figure 1 C). 5 Among them, pumped storage hydropower and compressed air currently dominate global energy storage, but they have ...

The new energy (fuel cell) industry patent navigation series research report focuses on the development of the new energy fuel cell industry and the research on patent navigation based on the regional characteristics of Shenzhen. technology, providing navigation suggestions for the development path of Shenzhen's new energy fuel cell industry

The acceleration of energy storage technology transfer and transformation holds critical importance for China in addressing global climate change and advancing sustainable energy transition [1]. This urgency stems from the pivotal role that energy storage technology plays in supporting the growth of local new energy industries

[2] and in providing essential ...

Through the global and Chinese patent application volumes, the research comparatively analyzes the application situations of the main source countries and main ...

ACCESS seeks to commercialize battery and energy storage technologies by facilitating industrial coordination with Argonne's energy storage programs, and JCESR is a national program led by Argonne that focuses on ...

It also emphasizes conducting patent navigation analysis and accelerating the cultivation of a batch of original and foundational high-value patents, with an aim to enhance ...

These patents protect novel technologies in areas like solar power, wind energy, hydrogen fuel cells, energy storage systems, smart grids, biofuels, and electric vehicles (EVs). Securing a patent in clean energy provides market exclusivity, prevents competitors from copying innovations, and allows patent holders to license their technologies ...

Renewables are projected to account for 95 percent of the increase in global power capacity by 2026 and could provide all global energy demand by 2050. Wind and solar energy, however, have an intermittency ...

In the realm of mechanical energy storage, it is clear that pumped hydroelectric (PSH), flywheel (FES), and compressed air energy storage (CAES) lead the way in patent publications. Of ...

Better energy storage technologies enable the integration of larger quantities of renewable energy into the energy system, helping to replace fossil fuels in a variety of applications. A wide range of energy storage technologies ...

The main functions of energy storage include the following three aspects. (1) stable system output: to solve the distributed power supply voltage pulse, voltage drop and instantaneous power supply interruption and other dynamic power quality problems, the stability of the system, smooth user load curve; (2) Emergency power supply: Energy storage can play a ...

In November 2014, the State Council of China issued the Strategic Action Plan for energy development (2014-2020), confirming energy storage as one of the 9 key innovation fields and 20 key innovation directions. And then, NDRC issued National Plan for tackling climate change (2014-2020), with large-scale RES storage technology included as a preferred low ...

Today, the world is moving towards sustainable and renewable energy resources. In order to ensure sustainable and steady power supply, thermal energy storage (TES) is playing a vital role. Most parts of the literature ...

Energy Storage Industry. EOS Climate Impact Profile EnergyStorageIndustry Page 2 Company Description Alignment with SDGs Responsible Consumption and Production Eos Energy Storage is a New Jersey-based company ... Francis holds 3 patents, has publications in Journal of the Electrochemical Society and

This report analyses the worldwide patent landscape for energy and its storage. Energy and its storage encompasses many different technologies, but the current report has ...

This phenomenon indicates a shortfall in transferring invention patents in the energy storage industry, which deviates from the goals outlined in China's 14th Five-Year Plan ...

The Energy Storage Market size is estimated at USD 58.41 billion in 2025, and is expected to reach USD 114.01 billion by 2030, at a CAGR of 14.31% during the forecast period (2025-2030). The outbreak of COVID-19 had a negative effect ...

An energy storage system converts variable renewable electricity (VRE) to continuous heat at over 1000°C. Intermittent electrical energy heats a solid medium. Heat from the solid medium is delivered continuously on demand. An array of bricks incorporating internal radiation cavities is directly heated by thermal radiation. The cavities facilitate rapid, uniform heating via reradiation.

On an annual basis, the number of energy storage-related patent applications in the power industry witnessed a rise of 6% compared with Q2 2023. Strategic deal trends in energy ...

the International Energy Agency (IEA) to offer key insights into patent trends in high-value inventions in the field of electricity storage. Because patents are filed many months, or even years, before products appear on the market, patent information is an early indicator of

To assess the importance of patents in different industries, "patent propensity" is an established indicator. An overview of the corresponding literature is given in Table 3 ... (Center for Electrochemical Energy Storage Ulm-Karlsruhe) and was funded by the German Research Foundation (DFG) under Project ID 390874152 ...

The importance of batteries has been growing as a solution in a very dynamic puzzle. As a set of technologies at the intersection of the clean-digital transition, their role is expected to grow further in the coming decades [6]. A report about electricity storage developments published by the International Energy Agency (IEA) in association with the ...

Energy storage is nowadays recognised as a key element in modern energy supply chain. This is mainly because it can enhance grid stability, increase penetration of renewable energy resources, improve the efficiency of energy systems, conserve fossil energy resources and reduce environmental impact of energy generation.

The energy storage-ICT patent applications were concentrated mainly in eight provinces in China, with Guangdong province having the most patent applications at 5,420, followed by Jiangsu and Beijing provinces. ... firms and governments are proposed to follow digital trends and grasp new opportunities in the energy storage industry and other ...

Explore the forefront of energy storage technologies with a comprehensive report on the trends anticipated to shape the landscape by 2025. This trend report provides an in-depth analysis of the ten most critical energy ...

Patent transfer is a primary form and important component of technology transfer [12] and enables the commercialization and dissemination of technology [13]. Over 90% of global scientific and technological advancements have been patented [14], making patents a crucial medium for technological innovation. With the progress of energy storage technology, the ...

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