

Research on energy storage industry patents at home and abroad



Overview

What are energy technology patents?

Patents provide early indications of technological developments that may transform the economy and drive the energy transition. The H2020 data portal has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 952363. Energy Technology Patents Data Explorer - Data tools.

Does Germany have a strong patenting activity for thermochemical conversion of biomass?

Germany has gained some momentum in patent activity for the AWE. The situation for thermochemical conversion of biomass is slightly different, where Germany has a rather low patenting activity in combination with a low share of patents related to its, overall strong total patenting activity.

Are patents reflected by the number of patents registered in a country?

It is considered in this work that national research and development (R&D) efforts, technology trends and market changes through the development of new energy technologies in frame of the energy transition are reflected by the number of patents registered in the respective country.

Does Germany have a lagging position in patenting batteries and hydrogen?

In more detail, patenting landscapes for batteries and hydrogen are comparable regarding the lagging position of Germany in relation to the other countries. Germany has gained some momentum in patent activity for the AWE.

What are national patents?

There are also patents that are only published in one country. These are labelled as national patents in the evaluation. Two kinds of analyzes are provided by the evaluation template: a quantitative analysis based on

bibliometric data and a qualitative analysis, which requires a certain degree of interpretation (technology trend analysis).

Is Germany a good country to patent bioenergy?

The results for named technologies show that patenting activity of Germany is considered lower in comparison to countries such as Japan, China, and the US. Whereas the position of Germany for batteries and hydrogen is comparable, bioenergy shows different results regarding the identified countries and the number of patents found.

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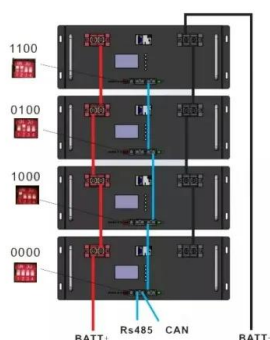


Present State of Underground Storage and Development Trends ...

In recent years, great progress has been made in the construction of underground storage, especially gas storage, which has played an important part in peak modulation and safe supply ...

Analysis of challenges and opportunities in the development of ...

The rapid development has also led to some problems. From a macro point of use, patent is an important index to reflect the technological innovation of the industry, which ...



Energy storage systems at home and abroad

DOI: 10.12096/j.2096-4528.pgt.19156 o Key Technologies for Ubiquitous Power Internet of Things and Integrated Energy Systems o Previous Articles Next Articles Research on the ...

research on energy storage industry patents at home and abroad

The energy storage sector is becoming a pretty crowded and competitive field as more and more companies come up with solutions that will be absolutely crucial



Analysis of Patents for Energy Storage Materials: Key Trends

But when it comes to energy storage materials, these legal documents are like treasure maps showing where the tech world is pouring its billions. From Tesla's battery wizards to startups ...

Research on the Development and Application of the ...

Research on the Development and Application of the Photovoltaic and Energy Storage System in the User-side at Home and Abroad [J]. Power Generation Technology, 2020, 41 (2): 110-117.

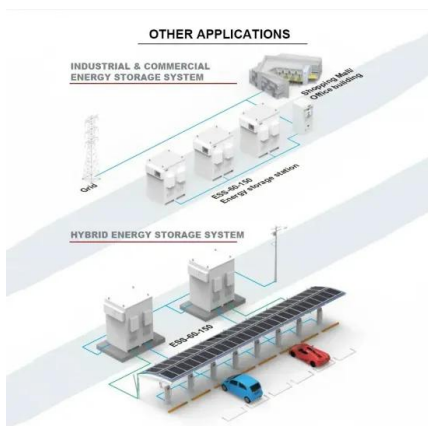


The Analysis of Innovation Network in China's Hydrogen ...

In light of this, this paper focuses on China's hydrogen energy industry, constructing upstream, mid- stream, and downstream IPC co-occurrence networks based on patent data, analyzing ...

Analysis of new energy storage policies and business models in ...

Abstract: The development of energy storage technologies is still in its early stages, and a series of policies have been formulated in China and abroad to support energy storage development. ...



research on energy storage industry patents at home and abroad

When you're looking for the latest and most efficient research on energy storage industry patents at home and abroad - Suppliers/Manufacturers for your PV project, our website offers a ...

Our Work -- China Energy Storage Alliance

Our WorkWe believe that energy storage is the key to the transition to a green future. As China's first energy storage industry association, we are proud to: Produce quality research on the ...



Development status of underground space energy storage at home ...

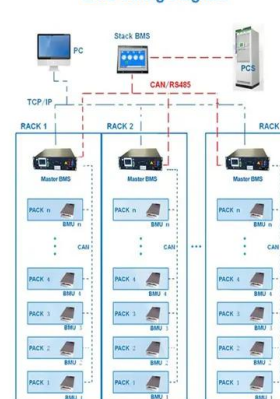
Methods Based on the types of underground space storage facilities, combined with the construction of global underground space storage facilities and related research ...



Research on the Development Status of Electric Energy Storage at Home

Article "Research on the Development Status of Electric Energy Storage at Home and Abroad from the Perspective of Standardization" Detailed information of the J-GLOBAL is an ...

BMS Wiring Diagram



Energy Storage Research , NREL

NREL's multidisciplinary research, development, demonstration, and deployment drives technological innovation and commercialization of integrated energy ...

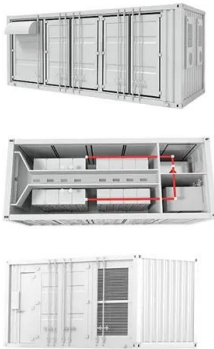


Strategic IP Considerations of Batteries and Energy Storage

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Research and development in the battery industry have led to a notable increase in patent filings at the United States Patent and Trademark Office (USPTO), climbing from ...



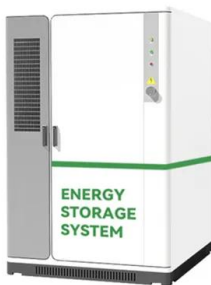


Comparative Analysis on Energy Storage Policies at Home and Abroad ...

Therefore, how to quantify research on the promotion mechanism of energy storage technology under energy storage policy is a hot issue concerned by the government, ...

Energy storage at home and abroad

This is an energy-storage technology which produces synthetic fuels such as hydrogen, methane, and so on, to absorb excess renewable power when it is beyond demand. focusing on the ...



The Energy Storage Industry Goes Abroad: Opportunities, ...

Let's face it - the energy storage industry isn't just going global; it's throwing an international housewarming party. With the global energy storage market projected to reach ...

Research on energy storage systems at home and abroad

Which countries use energy storage systems?
Fig. 1 shows the current global installed capacity of energy storage system ESS. China, Japan, and the United States are ...



Development status of underground space energy storage at home ...

Based on the types of underground space storage facilities, combined with the construction of global underground space storage facilities and related research experiments, this paper ...

Research on the Development and Policy Evolution of ...

This study benchmarks the forward-looking and strategic development status of the CCUS industry at home and abroad, elucidates the ...



Research on the Development Status of Electric Energy Storage at Home

Energy storage is an important technology and basic equipment for building a new type of power system. The healthy development of the energy storage industry cannot be separated from the ...



Research on Technology Evolution Trend of Petrochemical Industry ...

In order to clarify the technology development trend in the domestic petrochemical field and promote the transformation, upgrading and high-quality development of ...



Energy storage system application industry at home and abroad

Energy storage technologies have various applications in daily life including home energy storage, grid balancing, and powering electric vehicles. Some of the main applications are: ...

Spatiotemporal Evolution and Determinants of the ...

Our results show that the number of Chinese SEI patents abroad is growing rapidly, and the new-generation information technology industry is ...



Analyzing Market Dynamics in Energy Storage Giants

2022 marked a pivotal moment for the energy storage sector. Fueled by favorable conditions both at home and abroad, the global energy ...



2025 7th International Conference on New Energy System and ...

His research interests include modeling, state estimation, and safety management for energy storage systems. He has led 56 national-level projects, including those funded by the National ...



Energy Technology Patents Data Explorer - Data ...

The graph shows the distribution of patents among 26 fossil fuel technologies, which are broken down by sector (upstream, processing and downstream, ...

Graphene Related Patent Operation Data Analysis at Home and Abroad

To fulfill the efficient utilization of 2D graphene sheets in applications such as energy storage and conversion, electrochemical catalysis, and environmental remediation, 3D ...



Emerging topics in energy storage based on a large-scale

...

By applying a computational method based on citation networks, we performed an exhaustive analysis of energy storage research by mining articles and patents. This ...

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