

European Solar Energy Storage

National patent for energy storage



Overview

Inside a 60MW/300MWh national demonstration project for compressed air energy storage using underground salt caverns developed by Tsinghua University in China, one of the filers of patents in the technology class. Image: Tsinghua University Dept of Electrical Engineering. Ben Lincoln, energy expert.

Inside a 60MW/300MWh national demonstration project for compressed air energy storage using underground salt caverns developed by Tsinghua University in China, one of the filers of patents in the technology class. Image: Tsinghua University Dept of Electrical Engineering. Ben Lincoln, energy expert.

The range of sources of renewable energy requires a leap forward when it comes to innovation in energy storage and other enabling technologies that will help achieve the energy transition, including by balancing supply of and demand for power. These enabling technologies include electrolysis for.

Our research and development efforts address key issues associated with a wide range of energy storage chemistries, including lithium-ion, lithium-sulfur, lithium-air, magnesium-ion, sodium-ion and non-aqueous/aqueous organic redox flow batteries. Key patented technologies from CSE include:.

National patent for energy storage



Monitoring innovation in electrochemical energy storage technologies: A

To support the much-needed progress, understanding innovation in electrochemical energy storage revealed in patents is an important research, as well as public ...

Patent analysis on green hydrogen technology for future ...

...

To make the patent database for the analysis, first, a comprehensive survey on green hydrogen projects worldwide was conducted and hydrogen-related technologies were ...



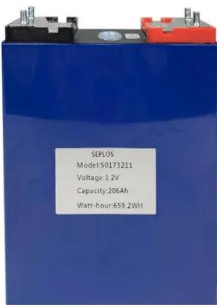
WO/2021/102340 INTEGRATED ENERGY STORAGE SYSTEM

An integrated, unitary battery pack may be formed and used as part of the structural support for a vehicle frame. The unitary battery pack includes arrays cells having all ...

OFFICE OF ELECTRICITY ENERGY STORAGE ...

Sandia's efforts have produced a number of

patents and applications on topics that include Molten Inorganic Electrolytes, Zinc Battery with Improved Cycling from an Ion-Selective Separator, ...



2020 Patent and Patent Application Analysis for

2020 Patent and Patent Application Analysis for the U.S. Department of Energy Hydrogen and Fuel Cell Technologies Office Lindsay Steele Pacific Northwest National Laboratory PNNL-31850

Innovation trends in electricity storage: What drives global ...

Using patent data from 1978 to 2019 across 1881 regions, we estimate the main determinants of innovation in energy storage. Our results highlight the role of energy prices and past innovation ...



Energy Storage - Energy

Energy Storage Technologies for Electric Grid Modernization A secure, robust, and agile electricity grid is a central element of national infrastructure. Modernization of this infrastructure ...

Patents - Energy

2024 Date Title Patent/Application Patent No.
 Authors 2024-03-19 Energy Storage-based
 Packetized Delivery of Electricity Patent
 11,936.185 B1 T.A. Nguyen, R.H. Byrne, B.R. ...



Impact of the network location of energy storage cooperative

...

Based on data from the incoPat patent database, we established the Cooperative network and knowledge network of energy storage patents and measured the ...

DOE Unveils Public Database Featuring

DOE's Office of Technology Transitions created the Visual Intellectual Property Search database, known as VIPS, to make it easier to perform intellectual property searches ...



Analysis of recent development in energy storage technology in ...

Advanced energy storage technology plays a crucial role in mitigating the fluctuations of new energy sources and enhancing their absorption capacity. Patents serve as important indicators ...



Available Technologies , PNNL

You can also expand your search by exploring IP from more than 20 Department of Energy national labs and sites in one convenient place with the Visual Intellectual Property Search (VIPS) platform. Need help? ...

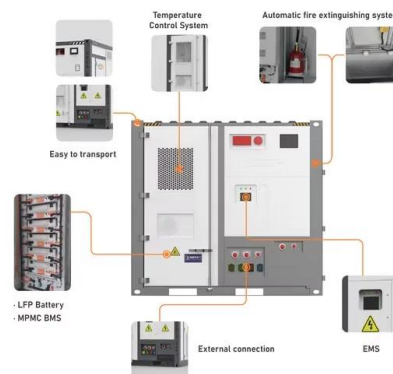


About the Energy Storage Systems Program

The goal of U.S. Department of Energy's (DOE) Energy Storage Systems (ESS) Program is to develop advanced energy storage technologies and systems, in collaboration with industry, academia, and government ...

8 Great Technologies report template

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 concentrated on ...





Energy Storage Research , NREL

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

Energy storage system

A energy storage system includes at least one storage cell. The storage cell is provided at least in sections with a casing. The casing consists of plastic and is provided with a ...



Who is leading in patents for the Energy Transition?

Maintaining international competitiveness
Germany has its work cut out to achieve its ambitious energy goals of phasing out nuclear energy by 2022 and fossil fuels by ...

DOE Office of Electricity Energy Storage Program ...

DOE Energy Storage Annual Peer Review The DOE Office of Electricity, Energy Storage Program Annual Meeting and Peer Review assembles researchers from across the DOE landscape -- national laboratories, ...



Microsoft Word

The Influence of Geothermal Patents Funded by the U.S. Department of Energy's Geothermal Energy Technologies Office and other DOE Offices Report prepared for: U.S. Department of ...

WO2009044139A2

Flywheels - good charge/discharge efficiency, but limited power storage per unit mass and expensive. Compressed Air Energy Storage - the main drawback of CAES is its reliance on ...

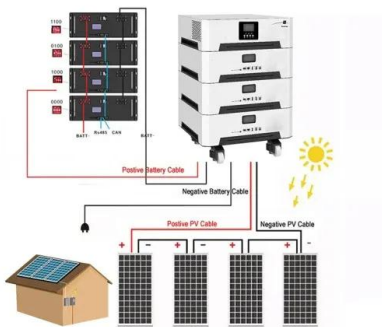


Impact of the network location of energy storage cooperative patents ...

The transfer of energy storage patents can facilitate innovative development. The present study analyzes the factors influencing the transfer of cooperative energy storage ...

2021 Patent and Patent Application Analysis for

2021 Patent and Patent Application Analysis for the U.S. Department of Energy Hydrogen and Fuel Cell Technologies Office Lindsay Steele Patricia Prison Rachel Long Katherine Rockhold ...



Energy Storage - Energy

Energy Storage Technologies for Electric Grid Modernization A secure, robust, and agile electricity grid is a central element of national infrastructure. Modernization of this infrastructure is critical for the nation's economic ...

US Patent for Energy storage system Patent # 12,160,102 ...

The present disclosure relates generally to energy storage systems and, more particularly, to such a system including a pumped glycerol battery for storing energy from renewable electricity ...



Energy storage system and applications

Groups of thermal storage arrays may be controlled and operated at high temperatures without thermal runaway via deep-discharge sequencing. Forecast-based control enables continuous, ...



Energy Storage Research , NREL

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



National Blueprint for Lithium Batteries 2021-2030

Lithium-based batteries power our daily lives from consumer electronics to national defense. They enable electrification of the transportation sector and provide stationary grid storage, critical to ...

What are the patents in the field of energy storage? , NenPower

Energy storage patents are legal protections granted for inventions related to technologies that store energy for later use. These patents can apply to various systems, ...





EPO-IEA study: rapid rise in battery innovation ...

Electricity storage inventions show annual growth of 14% over past decade, joint study by European Patent Office (EPO) and International Energy Agency (IEA) finds Amount of batteries and other ...

2019 Patent Analysis for the U.S. Department of Energy ...

1,023 patent applications and 1113 patent awards related to HFTO-funded R& D through 2019 1113 patent awards resulting from HFTO-funded R& D (1977-2019) 582 fuel cell patents (52%) ...



Measurement and prediction of the relationships among the patent

The commercialization process of energy storage patents affects the development of the energy storage industry. Clarifying the relationships between the characteristics of the ...

[US20210273219A1](#)

According to the present invention, it is possible to provide an energy storage device that has a great effect of suppressing an increase in resistance in a charge-discharge cycle.



Who is leading in patents for the Energy Transition?

Maintaining international competitiveness Germany has its work cut out to achieve its ambitious energy goals of phasing out nuclear energy by 2022 and fossil fuels by 2038. Key to meeting this zealous goal ...

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