

Are patents filed for energy storage technologies reflected in the data?

Patents filed for energy storage technologies - Our World in Data Figures in recent years are subject to a time lag; submitted patents may not yet be reflected in the data. Figures in recent years are subject to a time lag; submitted patents may not yet be reflected in the data. Our World in Data Articles by topic Latest About Donate All charts

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.

Are grid-connected Lib storage patents a trending topic?

This study investigated grid-connected LIB storage patents to comprehend the market. Bibliographic and technological analysis were presented on the patent growth trends. Patent search trending topic on LIB explores grid stability and energy management system. This study identifies and evaluates the possibilities on LIB's future research trend.

Is there a patent landscape analysis of grid-connected Lib energy storage systems?

Nevertheless, no similar patent landscape analysis was discovered to have been carried out in the field of grid-connected LIB ESS. The goal of this study is to extract the important aspects of the publications with the most citations and to provide insight into the assessment of grid-connected LIB energy storage systems. 3.1.

Why is energy storage system integration important?

To ensure grid reliability, energy storage system (ESS) integration with the grid is essential. Due to continuous variations in electricity consumption, a peak-to-valley fluctuation between day and night, frequency and voltage regulations, variation in demand and supply and high PV penetration may cause grid instability [2].

Are patents a proxy for Innovation?

We consider patents filed according to the Patent Cooperation Treaty (PCT) as a proxy for innovation. Following the work of Griliches [42], others evaluated patenting in the energy sector, and concluded that patents are a valid indicator to measure innovativeness within the energy sector [2, 28].

This joint study by the International Energy Agency and European Patent Office underlines the key role that battery innovation is playing in the transition to clean energy ...

ESS Tech, has been awarded over 20 additional patents for the company's industry-leading iron flow battery



Energy storage company technology patents

IFB technology since the beginning of 2022. This brings the total number of patents held by the company to 62 worldwide with a further 225 applications filed.

Year-to-year change in primary energy consumption by source. Year-to-year change in primary energy consumption from fossil fuels vs. low-carbon energy. Year-to-year percentage change ...

Energy-Storage.news" publisher Solar Media will host the 2nd Energy Storage Summit Asia, 9-10 July 2024 in Singapore. The event will help give clarity on this nascent, yet quickly growing market, bringing together a community of credible independent generators, policymakers, banks, funds, off-takers and technology providers.

Energy Storage Journal (business and market strategies for energy storage and smart grid technologies) is a quarterly B2B publication that covers global news, trends and developments in energy storage and smart grid markets.

He has over 20 years of renewable energy storage technology leadership experience. ... He has authored numerous scientific publications and US patents. Steffen Pietzke. CFO. Read Bio. Steffen Pietzke is the Chief Financial Officer at EnerVenue, where he leads the company's financial activities, including business planning, budgeting ...

Discover how power companies like Contemporary Amperex Technology Ltd, General Motors Co, and Tesla Inc are revolutionizing energy storage through innovative patents. Improve battery ...

In terms of mechanical energy storage, solutions for storing energy during off-peak periods or high-wind speeds are being explored using flywheel energy storage, where a rotor (flywheel) is accelerated to a high speed and then releases its kinetic energy through a dynamo to create electricity, slowing the rotor.

According to GlobalData's company profile on Energy Vault, was a key innovation area identified from patents. Energy Vault's grant share as of January 2024 was 25%. Grant share is based on the ratio of number of grants to total number of patents. Energy storage and delivery system using elevator cage

According to GlobalData's company profile on Enphase Energy, Smart energy mgmt systems was a key innovation area identified from patents. Enphase Energy's grant share as of September 2023 was 47%. Grant share is based on the ratio of number of grants to total number of patents. Ac coupled battery storage system for energy management

"In less than a year, Eguana has emerged as the technology leader in storage electronics, and we have had multiple enquiries in the past few months from Chinese firms about gaining access to the Bi-Direx technology. These new patents will allow us to engage with these companies with greater confidence," said Michael Carten CEO of Eguana ...

Energy Dome, an Italian cleantech company founded in 2020, develops innovative long-duration energy storage solutions based on a thermodynamic transformation of CO₂ in a closed thermodynamic process to provide electricity storage at low cost, with unprecedented round-trip efficiency and without emissions. Energy Dome's CO₂ battery can ...

According to GlobalData's company profile on Energy Vault, was a key innovation area identified from patents. Energy storage and delivery system with elevator and winch assembly. ... Blending expert knowledge with cutting-edge technology, GlobalData's unrivalled proprietary data will enable you to decode what's happening in your market. ...

The technology patent number is 403377 Technology patent No 403377 has been granted to Su-vastika Solar. It is a start-up company in the field of Energy Storage System/ESS having Solar and Lithium Technologies. It also has strong technology for Emergency Rescue Devices for lift backups. This patent is related to the Battery Management System ...

In this area, we are developing technologies to aid the growth of the U.S. battery manufacturing industry, transition the automotive fleet to plug-in hybrid and electric vehicles and enable greater use of renewable energy. Our research and development efforts address key issues associated with a wide range of energy storage chemistries, including lithium-ion, lithium-sulfur, lithium-air ...

The article discusses 10 Hydrogen energy storage companies and startups bringing innovations and technologies for better energy distribution. ... let's see which companies are working on this hydrogen energy storage technology. Hydrogen Energy Storage Companies 1. ITM Power. ... With a total of 70 patents in its portfolio, the startup has a ...

Patent activity in this area has been growing at average rate of 25% per year between 2010 and 2018. Impact of patents. In a heavily crowded patent landscape, recognizing and protecting new developments is of critical importance to industry players aspiring to exploit the commercial potential of the energy storage sector.

The top five companies accounted for 24% of patenting activity. Analysis of patenting activity by companies shows that Contemporary Amperex Technology filed the most energy storage patents within the power industry in Q3 2024. The company filed 108 energy storage-related patents in the quarter, compared with 210 in the previous quarter.

Research into energy storage solutions has resulted in high levels of innovation across multiple technology fields, which in turn has significantly increased global patent activity. Energy storage solutions encompass numerous technologies, including batteries, such as lithium-ion batteries for electric mobility, grid-scale electricity storage ...



Energy storage company technology patents

Company now holds 62 patents for innovative energy storage technology with additional 225 filed
Wilsonville, Ore. - May 2, 2023 - ESS Tech, Inc. ("ESS") (NYSE:GWH), a leading manufacturer of long-duration energy storage systems for commercial and utility-scale applications, has been awarded over 20 additional patents for the company's industry-leading ...

Firstly, using the "energy storage system" a total of 847,461 (n = 847,461) patents were found. Secondly, "battery" was used and a total of 272,904 (n = 272,904) patents ...

MILAN, Italy--(BUSINESS WIRE)--Energy Dome, an Italian energy storage technology company founded in 2019, today announced the close of its \$11M Series A fundraise. The company will use the proceeds ...

Investors can now be part of a ground floor opportunity in vanadium flow battery technology
Stony Brook, NY (PRUnderground) January 10th, 2018
StorEn Technologies Inc., a client of the Clean Energy Business Incubator Program (CEBIP) at Stony Brook University, is pleased to announce that they have just launched on StartEngine. Now, investors will have the ...

The Patent 300®, developed by Harrity Patent Analytics, is the intellectual property industry's premier resource for patent insights and competitive intelligence on the world's leading technology organizations. The Patent 300® is an annual compilation of the top 300 companies, organizations, and universities in the patent field, based on the quantity of issued U.S. patents each year.

and storage resulting from HFTO R& D funding* o In FY2017 the scope was expanded to include analysis of patent applications resulting from HFTO-funded R& D U.S. Patent data has been tracked from the inception of DOE activities in 1977 U.S. Patent application has been tracked since 2001 (1st year available online)

a) Patent life cycle until patent being granted b) Selection process for patent papers of electrolyser technologies for H2 production using Lens database c) Top applicants for electrolyser technologies by the jurisdiction in terms of country and companies d) Top 10 inventors of the selected patents and their country e) Technical area for electrolyser control technologies ...

Patents address Nxu's differentiated EV charging ecosystem technology. MESA, Ariz., Jan. 24, 2024 (GLOBE NEWSWIRE) -- Nxu, Inc., (NASDAQ: NXU) ("Nxu", "the Company"), a domestic technology company creating innovative EV charging and energy storage solutions for the infrastructure we need to power our electrified future, has secured a patent showcasing a ...

Technology patents granted to Su-vastika in the field of Solar battery Inverter, pure Sinewave UPS, Lift UPS, ESS, ERD, Heavy Duty UPS ... Energy Storage System (ESS) 1P-1P; 3P-3P; Battery Management System (BMS) Online UPS (IGBT Based) ... It is also a sign of confidence in the company's technology and its ability to make a positive impact ...



Energy storage company technology patents

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