Number of energy storage patents

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 Worldin 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.

How fast do batteries & electricity storage technology develop?
It reveals that between 2005 and 2018,patenting activity in batteries and other electricity storage technologies grew at an average annual rate of 14% worldwide,four times faster than the average of all technology fields. Innovation in Batteries and Electricity Storage - Analysis and key findings. A report by the International Energy Agency.

Abstract: An energy storage device and a temperature regulating structure thereof are provided in the present application. The temperature regulating structure of the energy storage device includes a housing and a temperature regulating plate fixedly connected to the housing, wherein the housing and the temperature regulating plate form a first heat insulation ...

Patent Number(s): 10935327 Application Number: 16/083,458 Assignee: The Regents of the University of California (Oakland, CA) Patent Classifications (CPCs): ... Energy storage systems include a heat source and a thermal energy storage system to store thermal energy produced by the heat source. The thermal energy storage system includes a first ...

Looking more deeply, the activity in 2010 included patent applications by Lightsail Energy Inc and Expansion Energy LLC. Chart: Ben Lincoln / Potter Clarkson Mass-based energy storage . Turning to mass-based energy storage systems, pumped hydroelectric energy storage (PHES) has seen the most innovation among technologies.

Patent number: 10895409 Abstract: An energy storage system is disclosed. The energy storage system includes a turbo train drive, a hot heat sink, and a reservoir. The turbo train drive is in mechanical communication with a compressor and an expander. The hot heat sink is in thermal communication between an output of the compressor and an input ...

Patent Number(s): 10784538 Application Number: 15/549,117 Assignee: The Board of Trustees of the Leland Stanford Junior University (Stanford, CA) ... {Multifunctional energy storage composites}, author = {Chang, Fu-Kuo ...

Patent number: 8656712 Abstract: Apparatus (10) for storing energy, comprising: compression chamber means (24) for receiving a gas; compression piston means (25) for compressing gas contained in the compression chamber means; first heat storage means (50) for receiving and storing thermal energy from gas compressed by the compression piston ...

The present U.S. Utility patent application claims priority pursuant to 35 U.S.C. § 121 as a divisional of U.S. Utility application Ser. No. 15/411,154, entitled "ENERGY STORAGE SYSTEM", filed Jan. 20, 2017, which is hereby incorporated by reference in its entirety and made part of the present U.S. Utility patent application for all purposes.

Patent Number(s): 9765251 Application Number: 14/425,415 Assignee: University of South Florida Patent Classifications (CPCs): ... Encapsulated Phase Change Apparatus For Thermal Energy Storage patent-application, October 2011. Neti, Sudhakar; Chen, John C.; Misiolek, Wojciech Z.

More specifically, thermal energy storage systems for home residential heating and / or cooling systems and the use of air knee storage materials such as phase change materials are described. ... Energy Storage System Download PDF Info Publication number ... 2012-10-25 Publication of KR20120117984A publication Critical patent ...

Patent number: 12140052 Abstract: A plant for energy storage, comprises: a basin (2) for a work fluid having a critical temperature (Tc) lower than 0°; a tank (3) configured to store the work fluid in at least partly liquid or super-critical phase with a storage temperature (Ts) close to the critical temperature (Tc); an expander (4); a ...

US20160370123A1 US14/898,780 US201414898780A US2016370123A1 US 20160370123 A1 US20160370123 A1 US 20160370123A1 US 201414898780 A US201414898780 A US 201414898780A US 2016370123 A1 US2016370123 A1 US 2016370123A1 Authority US United States Prior art keywords energy storage boiler storage system pump banks Prior art date ...

Energy Technology Patents Data Explorer - Data tools. A data tool by the International Energy Agency. ... Carbon Capture, Utilisation and Storage; Decarbonisation Enablers; Explore all. Topics . Understand the biggest energy challenges. COP28: Tracking the Energy Outcomes.

Justia Patents US Patent Application for ENERGY STORAGE SYSTEM Patent Application (Application #20230116874) ... In a conventional battery module or a battery pack including the battery module, the number of battery cells connected in parallel and the number of battery cells connected in series may be determined for a required capacity. In ...

Number of energy storage patents

"Data Page: Number of patents in carbon capture and storage", part of the following publication: Hannah Ritchie, Pablo Rosado and Max Roser (2023) - "Energy". Data adapted from International Renewable ...

The total number of energy storage-related grants dropped by 15% in Q3 2024, according to GlobalData"s Patent Analytics. GlobalData"s databook Power: Patents Trends Q3 2024 offers comprehensive insights into patenting trends, major players" strategies, and geographical focus in the sector over the last three years.

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 in primary energy consumption. Years of ...

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