



Air energy storage patent transfer agreement





Overview

Can compressed air energy storage improve the profitability of existing power plants?

New compressed air energy storage concept improves the profitability of existing simple cycle, combined cycle, wind energy, and landfill gas power plants. In: Proceedings of ASME Turbo Expo 2004: Power for Land, Sea, and Air; 2004 Jun 14–17; Vienna, Austria. ASME; 2004. p. 103–10. F. He, Y. Xu, X. Zhang, C. Liu, H. Chen.

Who are the authors of liquid air energy storage?

T. Zhang, X. She, Z. You, Y. Zhao, H. Fan, Y. Ding Sciacovelli A, Smith D, Navarro H, Li Y, Ding Y. Liquid air energy storage—operation and performance of the first pilot plant in the world.

What is compressed air energy storage (CAES)?

Compressed air energy storage (CAES) is an effective solution for balancing this mismatch and therefore is suitable for use in future electrical systems to achieve a high penetration of renewable energy generation.

How does liquid air energy storage differ from compressed air storage?

For example, liquid air energy storage (LAES) reduces the storage volume by a factor of 20 compared with compressed air storage (CAS).

What happened to Gaelectric energy storage?

Gaelectric Energy Storage company, which administrated this project, withdrew its planning application . The Israeli technology company—Augwind, founded in 2012, announced that a small-scale air-battery energy storage pilot was almost completed in the Arava Desert, Israel.



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WO2015138817A1

In various embodiments, the LAES system is intended for operation preferably in an environmentally-friendly stand-alone regime with recovery of hot thermal energy extracted from ...

Energy Storage Patent Transfers: Accelerating the Renewable Energy

The Patent Bottleneck in Clean Energy Transition
You know, the renewable energy sector's growing at a 12% annual clip, but here's the kicker--over 40% of energy storage patents never ...



[Liquid air energy storage - A critical review](#)

Liquid air energy storage (LAES) can offer a scalable solution for power management, with significant potential for decarbonizing electricity systems ...

[Solving Challenges in Energy Storage](#)

Recognizing that specific storage technologies best serve certain applications, the U.S. Department of Energy (DOE) pursues a diverse portfolio of energy storage research and ...



US8806866B2

Definitions the present inventionrelates to pneumatics, hydraulics, power generation, and energy storage, and more particularly, to systems and methods using pneumatic, pneumatic/hydraulic, ...



Systems and methods for efficient two-phase heat transfer in ...

Systems and methods for efficient two-phase heat transfer in compressed-air energy storage systems (U.S. Patent No. McBride, Troy O., Bollinger, Benjamin R., Bessette, ...



Batteries + Storage: The Implications of Integrating a Battery ...

"The intermittency and seasonality of most renewable energy resources," and "the higher costs of electricity generated by renewable energy projects" pose just two concerns relating to ...





US20210293221A1

A method of energy storage comprises receiving input energy (1) and using the input energy to compress (2) air or other process gas to produce a compressed process gas. The ...



Spatial structure and influencing factors of China's energy storage

The acceleration of energy storage technology transfer and transformation holds critical importance for China in addressing global climate change and advancing sustainable ...

WO2009114205A3

In an embodiment of the present disclosure, an energy storage device is presented. The energy storage device includes a porous material that adsorbs air and a compressor. The compressor ...



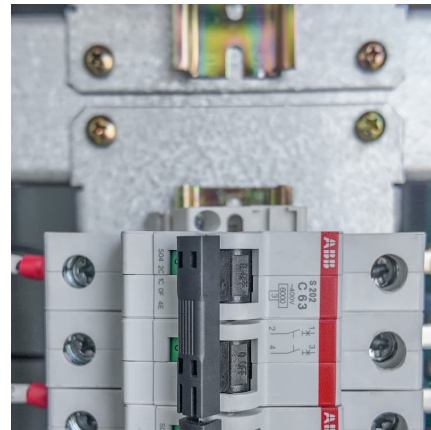
[Advanced adiabatic compressed air energy storage system](#)

This invention relates to a Compressed Air Energy Storage (CAES) system and, more particularly, to an adiabatic CAES system that provides improved performance of renewable energy ...



US8844277B2

FIG. 1 depicts the simplest embodiment of the compressed air energy storage system 20 of the present invention, and illustrates many of the important principles. Briefly, some of these ...



[Thermodynamic investigation of quasi-isothermal air](#)

This study focuses on two of the advanced technologies in the isothermal compressed air energy storage systems developed by LightSail Energy (mechanical piston with water injection) and ...

[Compressed air energy storage and recovery](#)

A compressed air system energy storage and recovery system has a compressed air tank structured to store compressed air above 200 bars, a heat storage unit containing a heat ...





(19) United States (12) Patent Application Publication (10) ...

air storage reservoir 120 may be drawn from the air storage reservoir 120 via line 122 to be heated by heat exchanger 124. Heat exchanger 124 is coupled, such as via line 134, to a carbon - ...

[Advanced Compressed Air Energy Storage Systems: ...](#)

Zhao, A preliminary dynamic behaviors analysis of a hybrid energy storage system based on adiabatic compressed air energy storage and flywheel energy storage system for wind power ...



Compressed air energy storage

Energy storage technologies can play a significant role in the difficult task of storing electrical energy writes Professor Christos Markides and Ray Sacks: ...

What types of air energy storage patents are there? , NenPower

As renewable energy sources become dominant, the necessity for efficient and large-scale energy storage options becomes increasingly pressing. Air energy storage patents ...



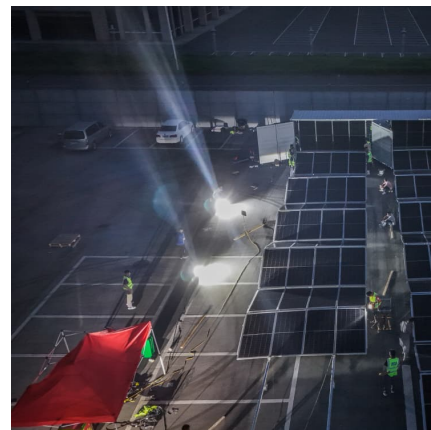
Hybrid Compressed Air/Water Energy Storage ...

As the compressed air fills the bladders, water is pushed out of the container and up an energy gradient to a location that is at a higher potential energy. The ...



(19) United States (12) Patent Application Publication (10) ...

A system and method for compressing and expanding air in a compressed air energy storage (CAES) system is disclosed. A CAES system is provided that is alternately operable in a ...



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 patents.





[Power storage patent transfer process](#)

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 ...



What's an Intellectual Property License Agreement? (Sample)

What is an Intellectual Property License Agreement? An intellectual property license agreement, or IP license agreement, is a legal document which allows one party to ...

[Low-cost hybrid energy storage system](#)

A low-cost hybrid energy storage system receives energy from one or more external sources, and has an air compressor, low-pressure compressed air energy storage (CAES) system that ...



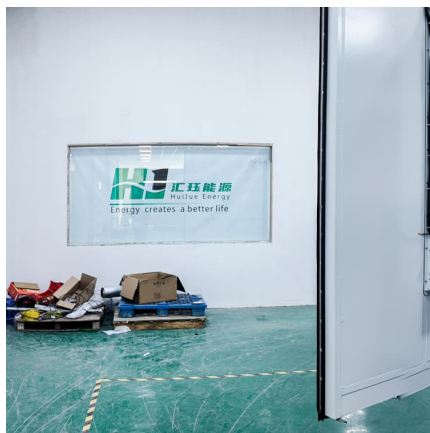
[Hybrid compressed air energy storage system](#)

A hybrid compressed air energy storage system is provided. A heat exchanger 114 extracts thermal energy from a compressed air to generate a cooled compressed air stored in an air ...



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

Patent collaborators can identify and utilize their network resources based on the recommendations of this study to improve the efficiency and benefits of patent transfers ...



Multi-source regenerative compressed air energy storage ...

The invention belongs to the technical field of energy storage, and relates to a system and method for comprehensive utilization of multi-source thermal storage compressed air energy storage.

Solving Challenges in Energy Storage

Today's energy storage devices are limited by the performance of their constituent materials. Overcoming these limitations requires understanding the myriad interactions that transfer ions ...



Patent analysis and thermodynamic evaluation of Sand ...

Heat storage tanks are therefore required between the charging and discharging phase for the intermediate thermal energy storage. The work focuses on developing an electro-thermal ...



A review of thermal energy storage in compressed air energy storage

Compressed air energy storage (CAES) is a large-scale physical energy storage method, which can solve the difficulties of grid connection of unstable renewable energy power, ...



[Advanced Compressed Air Energy Storage Systems: ...](#)

The "Energy Storage Grand Challenge" prepared by the United States Department of Energy (DOE) reports that among all energy storage technologies, compressed ...

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