

Patented Technologies Patented Technologies Pintail Power specializes in hybrid energy storage technologies which integrate proven thermal energy storage media with gas turbines to ...

In June 2023, China achieved a significant milestone in its transition to clean energy. For the first time, its total installed non-fossil fuel energy power generation capacity ...

China is leading the development of compressed air energy storage with many new techniques it has recently perfected.

[Translated] The invention discloses a supercritical air energy storage system which is a novel energy storage system and relates to an energy storage technology.

Based on geographic reach, State Grid Corporation of China, Hitachi, China Southern Power Grid, Toshiba and Schlumberger are some of ...

Imagine storing excess wind energy in underground salt caverns as compressed air, then releasing it during peak demand like opening a cosmic soda can to power cities. This isn't sci-fi ...

That results in a significant amount of air being trapped in the storage chamber, leading to low effective air storage density and high storage costs. In contrast, using variable ...

Green patents refer to invention patents that cover fields such as energy conservation and emission reduction, clean energy, and carbon capture and storage (Hsu, 2016).

Global energy storage capacity was estimated to have reached 36,735MW by the end of 2022 and is forecasted to grow to 353,880MW by 2030. China had 9,784MW of ...

US-9217423-B2 chemical patent summary. Disclosed is an energy storage system using supercritical air, comprising a compressor unit, a heat exchanger and storage ...

The invention discloses a heat pump supercritical air energy storage system, which relates to an energy storage technology, adopts low-valley (low-price) electricity of a power station to ...

The invention discloses a marine compressed air energy storage system. The technical solution is to use a marine caisson structure to store high-pressure air, and as an energy storage unit, it is ...

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 ...

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

The applications of energy storage systems have been reviewed in the last section of this paper including general applications, energy utility applications, renewable ...

It boasts a "zero carbon source" air-conditioning patented technology that combines photovoltaic and energy storage systems, which can ...

Despite the effect of COVID-19 on the energy storage industry in 2020, internal industry drivers, external policies, carbon neutralization goals, and other positive factors helped ...

Compared with the compressed air energy storage system, the liquid air energy storage system has a high energy storage density, does not require a large pressure storage container,...

Presently, as the world advances rapidly towards achieving net-zero emissions, lithium-ion battery (LIB) energy storage systems (ESS) have emerged as a critical component ...

A 300MWh system has connected to the grid in Jiangsu while a compressed air storage startup has raised nearly US\$50 million in funding round.

The invention relates to the technical field of energy storage, and discloses a liquefied air energy storage system which comprises an air compression unit, an air liquefaction storage unit, a ...

Construction has started on a 350MW compressed air energy storage project in, China, claimed to be the largest in the world of its kind.

Overview Patents provide early indications of technological developments that may transform the economy and drive the energy transition.

This study provides a detailed overview of the latest CAES development in China, including feasibility analysis, air storage options for CAES plants, and pilot CAES projects. ...

Let's face it, patents aren't exactly known for their Hollywood glamour. But in the world of energy storage, they're the backstage passes to the greatest energy revolution ...

Actively Exploring Energy Storage Application Scenarios In the era when the industry is fully shifting toward marketization, the reform of the ...

China air energy storage system patent

U.S. patent application number 13/508019 was filed with the patent office on 2012-08-30 for energy storage system using supercritical air. This patent application is currently assigned to ...

Abstract As a promising large-scale physical energy storage technology, the adiabatic compressed air energy storage (A-CAES) is in a critical development stage from ...

The invention discloses a liquefied air energy storage system, comprising an energy storage unit, a liquefaction unit, a liquid storage unit for storing a liquid working medium, a gasification unit ...

Despite the effect of COVID-19 on the energy storage industry in 2020, internal industry drivers, external policies, carbon neutralization goals, ...

The present invention provides novel designs and improved methods for the construction and operation of a gravity powered energy storage facility. This facility might also be called a ...

This paper leverages patent data to explore the developmental trends and research status of emerging energy storage technologies in China, including electrochemical, compressed air, ...

The compressed air energy storage is that the residual electric quantity is utilized when the load of the electric power system is in the valley, the air compressor is driven by the motor, and the air ...

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