

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 World in Data Articles by topic Latest About Donate All charts

What types of energy storage technologies are available?

Electrochemical, heat and mechanical energy storage technologies are available in many forms, and future scenarios may incorporate any of the diverse technologies explored below, each favouring particular end-use and economic environments.

How can energy storage help achieve the energy transition?

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.

This innovative storage method fundamentally hinges on the laws of physics. The core premise is that lifting a weight or an array of weights to an altitude accumulates ...

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

The invention provides systems and methods for energy storage for providing low temperature, long-duration thermal energy storage. The system provides for subterranean thermal energy ...

The ongoing efforts to enhance and innovate energy storage systems have led to the development of various patents spanning multiple types of technologies, and ...

A method and apparatus for controlling a battery energy storage system of the type in which an inverter is coupled to convert direct current power from a DC source to a controlled frequency ...

A method of liquid air energy storage is provided. This method includes liquefying and storing air to form a stored liquid air during a first period of time; during a second ...

The cluster "Mechanical energy storage for circuit breaking" collects patents of mechanisms that mainly use springs to store mechanical energy and support breaking systems ...

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 ...

As the demand for more efficient, safe, and high-capacity energy storage solutions continues to rise, the ability to secure strong patent protection for your innovations ...

1. Patents in the field of energy storage are legal protections granted for inventions that improve the efficiency, sustainability, and functionality of energy ...

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

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 ...

Companies within the EU have recognized the potential of energy storage solutions as pivotal to achieving energy independence and sustainability. Patents in energy ...

Abstract: The present invention provides an aqueous electrolyte for use in rechargeable zinc-halide storage batteries that possesses improved stability and durability and ...

the example implementations advance the art of thermal energy storage and enable the practical construction and operation of high-temperature thermal energy storage systems which are ...

The global power industry experienced a 23% decline in the number of energy storage related patent applications in Q3 2024 compared with the previous quarter, according ...

Foreword With this report, the European Patent Office (EPO) is teaming up for the first time with the International Energy Agency (IEA) to offer key insights into patent trends in high-value ...

The world's energy demand has significantly increased as a result of the growing population and accompanying rise in energy usage. Fortunately, the innovation ...

A compact energy storage system includes a high speed rotating flywheel and an integral motor/generator unit. The rotating components are contained within a vacuum enclosure to ...

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 ...

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

Focus of this Review In this review, technical options are discussed that are being evaluated by key solid-state / semi-solid lithium-ion battery companies towards the launch of ...

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