

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.

How do patents impact the energy transition?

Explore data on clean energy and fossil fuel patents in 44 countries 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.

Are high-value inventions filed in more than one office?

The data presented in this report show trends in high-value inventions for which patents have been filed in more than one office. 3 Patent information provides robust statistical evidence of technical progress.

Why do governments need patent data?

Patent data can help inform governments about their comparative advantage at different stages of a technology's value chain and shed light on innovative companies and institutions that may be in a position to contribute to economic recovery and long-term sustainable growth.

Ntherma, established in 2014, specializes in the development of carbon nanomaterials. Its patent on solid-state batteries is related to graphene nanoribbons comprising polymer solid electrolytes as electrode materials in ...

Patents and the Energy Transition - Analysis and key findings. A report by the International Energy Agency. ... Carbon Capture, Utilisation and Storage; Decarbonisation Enablers; Explore all. Topics . Understand the ...

Temporary power outages often occur in Africa, India, and other regions. To overcome these inconveniences in people's daily life, this multifunctional energy storage device can convert solar ...

Current legal status of patents; Ranking of main patent applicants; ... (Semiconductor Energy Laboratory, Sumitomo) and equipment suppliers (Applied Materials, Ulvac). Currently, more than 800 patents are granted,

mainly in ...

n Also in 2023, Risen Energy developed and owned 740 patent technologies, with 172 new patents authorized during the year. n The Company published several whitepapers as it continued to lead the industry. In August 2023, Risen Energy released its highly-anticipated research paper "Development and Application of Low-silver Metallization Paste ...

Our patent search and monitoring tools are based on synergies between subject matter expert knowledge & AI.; Energy storage innovation and patent reviews support improved product development decisions and provide insights about time-to-market for new technologies.; We cover >3M patent documents related to batteries and fuel cells from across the globe.

4 ???&#0183; Our patent search and monitoring tools are based on synergies between subject matter expert knowledge & AI.; Energy storage innovation and patent reviews support improved product development decisions and provide ...

Solar and wind power generation Solar energy generation by region Solar energy generation vs. capacity Solar power generation The cost of 66 different technologies over time The long-term energy transition in Europe Thermal ...

6. On-site energy storage and hydrogen production to balance power systems and create additional value. There is a growing focus on flexible energy systems to counter the variability of renewable technologies. Patent data in offshore wind energy technologies also show a growing interest in energy storage options,

According to InfoLink's global lithium-ion battery supply chain database, energy storage cell shipments reached 202.3 GWh in the first three quarters of 2024, up 42.8% YoY. The energy storage cell market experienced robust sequential growth during the first three quarters, with shipments in Q3 rising by 16% QoQ, setting a record high for single-quarter shipments.

element to energy transitions in the EU and beyond. Combining the energy expertise of the IEA with the EPO's patent knowledge, it provides the most comprehensive and up-to-date global review of patenting trends in a broad range of technologies - from the production of hydrogen to its storage, distribution and transformation,

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