Survey and analysis of the current talent situation in the energy storage industry

Why is hiring talent a problem in the energy sector?
Hiring talent to backfill critical roles and fill new roles presents a unique set of obstacles in the energy sector. Experienced workers are retiring, mid-tenure employees have new opportunities in adjacent industries, and data indicates that fewer new employees are entering this workforce.

How big is the energy storage industry?
Industry Growth: The energy storage industry includes over 13900 companies,growing by 3.56% last year,reflecting its expanding market presence and potential. Manpower &Employment Growth: The industry employs 1.7 million people globally,with 114000 new employees added last year,indicating substantial workforce expansion.

How can governments accelerate the adoption of energy storage technologies?
Governments must implement supportive policies,provide grants,and create incentivesto accelerate the adoption of energy storage technologies. The Energy Storage Industry Report 2024 uses data from the Discovery Platform and encapsulates the key metrics that underline the sector's dynamic growth and innovation.

What are the top 5 energy storage systems companies in 2024?
Top 5 companies including BYD,General Electric,LG Energy Solution,Siemens and Samsungheld a market share of over 40% in 2024. Major key players are working to develop cost-effective and wide range of ESS. Among these companies BYD is one of the largest share holding company in the energy storage systems indusry.

What is the energy storage systems industry?
The energy storage systems industry by technology is segmented into pumped hydro, electro-chemical, electro-mechanical, and thermal. The energy storage systems reached USD 433 billion, USD 535.8 billion and USD 668.7 billion in 2022, 2023 and 2024 respectively.

How much money is invested in the energy storage industry?
Investment in the energy storage industry is robust,with an average investment value of USD 84 million per round. More than 2000 investors have participated in over 5230 funding rounds,supporting over 2,100 companies. This strong financial backing highlights the sector's potential and the confidence of investors in its future growth.

With the rapid development of the energy storage industry and the swift improvement of storage technologies, the field is currently facing a significant talent shortage. The establishment and ...

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The application of energy storage technology can improve the operational stability, safety and economy of the power grid, promote large-scale access to renewable ...

Such energy storage systems can be based on batteries, supercapacitors, flywheels, thermal modules, compressed air, and hydro storage. This survey article explores several aspects of ...

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Energy Storage Reports and Data The following resources provide information on a broad range of storage technologies. General U.S. Department of Energy"s Energy Storage Valuation: A ...

The Energy Storage Market Report 2025 highlights key trends, workforce developments, investment flows, and other factors shaping the future of the market. Backed by influential investors and a growing ...

The 2024 Energy Storage Industry Report explores current trends, investments, and tech advancements shaping the global market. This report examines the industry"s growth trajectory, key players, and innovations ...

Source: Created based on "Comprehensive Energy Statistics of Japan", published by the Agency for Natural (Elapsed years) Resources and Energy; "System of National Accounts", published ...

The energy storage systems market size exceeded USD 668.7 billion in 2024 and is expected to grow at a CAGR of 21.7% from 2025 to 2034, driven by the rising demand for grid stabilization and energy efficiency.

The 2024 World Energy Employment report revisits many of the critical themes explored in WEE 2023, providing updated insights into the risks of skilled labour shortages and their potential impact on the ...

Amid increased demand, an aging workforce, and decreased recruitment levels, the energy sector"s talent pool is under pressure. Five strategies can help executives fill their talent pipeline.

Advanced countries throughout the globe have begun to list energy storage as a key development industry. This research is qualitative, not quantitative research, and focuses ...

Driven by the Euramerican and Asia-Pacific market,worldwide energy storage industry experienced fast development in 2015. According to CNESA,global cumulative installed ...

Throughout this concise review, we examine energy storage technologies role in driving innovation in mechanical, electrical, chemical, and thermal systems with a focus on ...

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Introduction Driven by the global energy transformation and carbon neutrality goals, the energy storage industry is experiencing explosive growth, but it is also facing ...

After defining the scope and orientation of the emerging energy technology industry, this paper analyzes the current status and development trends of the emerging energy technology ...

According to the analysis, the investment in electrochemical energy storage will exceed US$5 billion in 2022, a year-on-year increase of nearly three times. The global electrochemical energy storage market is expected to ...

A recent energy industry roundtable started with talent, which consumed more than half the conversation. Our report on that event covers the roundtable and the potential of AI to drive efficiency and ...

Abstract: Under the background of "dual carbon", the importance of energy storage as a supporting technology to overcome the instability of clean energy, such as photovoltaic and ...

For this reason, this paper will concentrate on China"s energy storage industry. First, it summarizes the developing status of energy storage industry in China. Then, this paper ...

Three National Labs were selected to review energy storage technologies from the December 12, 2023, lab call. This supports the Energy Storage Grand Challenge (ESGC) ...

This year marks the tenth anniversary of McKinsey"s Global Energy Perspective, offering a chance to reflect on the lessons learned over the past decade and to look ahead to the next one. Two ...

Energy storage technology is a crucial means of addressing the increasing demand for flexibility and renewable energy consumption capacity in power systems. This ...

Solar-plus-storage shifts some of the solar system"s output to evening and night hours and provides other grid benefits. NREL employs a variety of analysis approaches to understand the ...

Thermal storage and compressed-air energy storage (CAES) suit the region"s hot climate and vast salt caverns, spurring exportable know-how in high-temperature storage designs.

Subscribe to Newsletter Energy-Storage.news meets the Long Duration Energy Storage Council Editor Andy Colthorpe speaks with Long Duration Energy Storage Council director of markets and technology Gabriel ...

This research is based on an analysis of typical training programs from various universities. It employs a mixed-method approach combining questionnaires and interviews to investigate and analyze the status of ...

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Deloitte"s Renewable Energy Industry Outlook draws on insights from our 2024 power and utilities survey, along with analysis of industrial policy, tech capital, new technologies, workforce development, and carbon ...

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