

What are the new energy innovation hubs?

The U.S. Department of Energy announced the creation of two new Energy Innovation Hubs led by DOE national laboratories across the country. One of the national hubs, the Energy Storage Research Alliance (ESRA), is led by Argonne National Laboratory and co-led by Berkeley Lab and Pacific Northwest National Laboratory.

How can energy storage technology improve resiliency?

This FOA supports large-scale demonstration and deployment of storage technologies that will provide resiliency to critical facilities and infrastructure. Projects will show the ability of energy storage technologies to provide dependable supply of energy as back up generation during a grid outage or other emergency event.

What is a systems-level approach to energy storage?

Our systems-level approach guides basic science and research to develop and characterize high-performing materials and components with a focus on reliability, longevity, and durability to protect critical energy infrastructure. Search the NREL Publications Database to access our full library of energy storage publications.

What is the Energy Storage Research Alliance (Esra)?

The Energy Storage Research Alliance will focus on advancing battery technology to help the U.S. achieve a clean and secure energy future. Berkeley Lab's contributions to ESRA include world-leading energy storage research expertise and capabilities, such as the Advanced Light Source. Credit: Marilyn Sargent/Berkeley Lab

What does OE's new RD&D report mean for energy storage?

New Report Showcases Innovation to Advance Long Duration Energy Storage (LDES): OE today released its new report "Achieving the Promise of Low Cost LDES." This report is one example of OE's pioneering RD&D work to advance the next generation of energy storage technologies.

How can pre-production storage system design improve manufacturing scale-up?

Identifying and implementing design innovations will align pre-production storage system design to set the stage for manufacturing scale up and improved production of cost-effective, safe, and reliable short-, medium-, and long-duration storage technologies. New Report Showcases Innovation to Advance Long Duration Energy Storage (LDES):

The National Energy Storage Innovation Center (NESIC) operates at the forefront of research and development in energy storage technologies. As the world shifts towards more ...

Energy storage technology, a foundational pillar of modern energy systems, serves as a critical mechanism for

enhancing energy security. Utilizing panel data from 30 Chinese provinces ...

The Department of Energy's (DOE) Energy Storage Strategy and Roadmap (SRM) represents a significantly expanded strategic revision on the original ESGC 2020 Roadmap. This SRM ...

The establishment of the National Innovative Energy Storage Center in Baiyun, Guangzhou, was recently approved, making it the only national manufacturing innovation center in the field of ...

Recently, Shenyang Hengjiu Antai Environmental Protection and Energy Saving Technology Co., Ltd. received good news that it has officially become a co-constructor of the ...

Argonne advances battery breakthroughs at every stage in the energy storage lifecycle, from discovering substitutes for critical materials to pioneering new real-world ...

The findings indicate that energy storage technology innovation significantly improves energy security, especially in the eastern and central regions as well as in specific types of provinces.

On the afternoon of August 18, the launch meeting for the construction of the "National Energy and Power Energy Storage Equipment and System Integration Technology ...

Credit: Marilyn Sargent/Berkeley Lab The Energy Storage Research Alliance will focus on advancing battery technology to help the U.S. achieve a clean and secure energy ...

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The Energy Storage Center has taken the lead in establishing Guangdong New Energy Storage Industry Technology Innovation Alliance, covering over 85% of the national innovation ...

Following this, Sun Kai, Assistant Dean of EEA, presented a detailed report on the construction plan of the "National Energy and Electric Power Energy Storage Equipment ...

Energy Innovation Hub projects will emphasize multi-disciplinary fundamental research to address long-standing and emerging challenges for rechargeable batteries ...

6 ???&#0183; On September 12, 2025, the National Development and Reform Commission (NDRC) and the National Energy Administration issued a notice on the "Action Plan for Large ...

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