



# National development of solid-state batteries for energy storage

Using a polymer to make a strong yet springy thin film, scientists led by the Department of Energy's Oak Ridge National Laboratory are speeding the arrival of next ...

As research and development efforts accelerate, solid-state batteries are poised to revolutionize energy storage across diverse applications. Electric vehicles stand to gain ...

The development of next-generation batteries has mainly transitioned to a concept of the solid-state battery (SSB) because of its great potential for safe ...

The K-Battery development strategy shows a clear R& D focus on commercialising three types of advanced batteries: solid-state, lithium-sulfur and lithium-metal batteries by 2027, 2025 and ...

On January 17, six departments including the Ministry of Industry and Information Technology issued guidance on promoting the development of the energy & ...

Energy storage reduces energy waste, improves grid efficiency, limits costly energy imports, prevents and minimizes power outages, and allows the grid to ...

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 ...

Backed by \$75,000 in Department of Energy funding from the Office of Electricity, a PNNL researcher works to refine solid-state sodium batteries for the grid.

Energy storage reduces energy waste, improves grid efficiency, limits costly energy imports, prevents and minimizes power outages, and allows the grid to use more affordable clean ...

As the performance of current LIBs is also limited, next-generation battery technologies are being intensively investigated, especially given the ever-increasing demand ...

Renewable energy storage: Solid-state batteries can more efficiently store energy from renewable sources such as solar and wind. This helps manage energy supply and demand, making ...

Optimizing existing battery systems, including integrating robotics and automation into manufacturing. Fostering the development of new battery chemistries that reduce the use of ...



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Investment Trends: Significant investments from both government and private sectors are propelling research and development in solid-state technology, indicating its critical ...

The solid-state battery (SSB) is a novel technology that has a higher specific energy density than conventional batteries. This is possible by replacing the conventional liquid ...

Discover the transformative world of solid-state batteries in our latest article. Explore how this cutting-edge technology enhances energy storage with benefits like longer ...

Current projects focus on the characterization and development of solid-state batteries, metal-air batteries, Li-ion battery fast charging, low-temperature Li-ion electrolytes, and earth abundant ...

hydrogen energy and fuel cell technologies + new materials e.g. CO-free cathode, nano-Si/C anodes, different kinds of both inorganic and polymer electrolytes, solid separators and super ...

More recently, solid-state sodium batteries (SSSBs) have begun to emerge as candidate commercial products, although their applicability to large-scale, long-duration storage is not ...

The overarching goal of this project is to develop a new high temperature and high energy density all solid state LiAl-CO<sub>2</sub> battery through combining LiAl alloy anode, a tri ...

The battery energy storage pillar of the National Research Council of Canada's (NRC's) Advanced Clean Energy program works with collaborators to develop next-generation energy storage ...

The development of solid-state batteries that can be manufactured at a large scale is one of the most important challenges in the battery industry today. The ambition is to develop solid-state ...

Energy-storage technologies are needed to support electrical grids as the penetration of renewables increases. This Review discusses the application and development ...

Scientists at the Department of Energy's Oak Ridge National Laboratory have developed a scalable, low-cost method to improve the joining of materials in solid-state ...

Rapid advancements in solid-state battery technology are ushering in a new era of energy storage solutions, with the potential to revolutionize everything from electric ...

The energy crisis and environmental pollution drive more attention to the development and utilization of renewable energy. Considering the capricious nature of ...

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