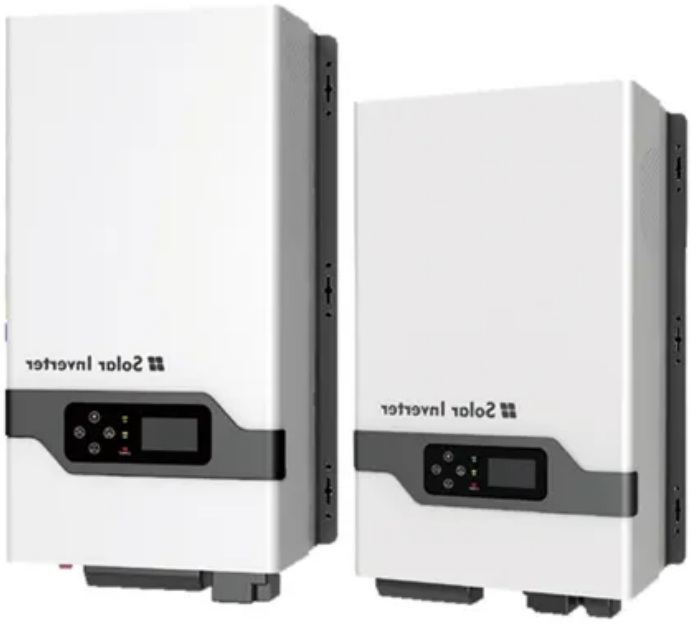
North america northwest liquid flow energy storage project



Overview

Researchers at the Pacific Northwest National Laboratory have made a breakthrough in energy storage technology with the development of a new type of battery called the liquid iron flow battery. A new recipe provides a pathway to a safe, economical, water-based, flow battery made with Earth-abundant materials RICHLAND, Wash. In the 1970s, scientists at the National Aeronautics and Space Administration (NASA) developed the first iron flow. The objective of SI 2030 is to develop specific and quantifiable research, development, and deployment (RD&D) pathways to achieve the targets identified in the Long-Duration Storage Shot, which seeks to achieve 90% cost reductions for technologies that can provide 10 hours or longer of energy. Over the last several decades, PNNL has seized the energy storage challenge and, in collaboration with stakeholders and research partners, is modernizing energy storage solutions to enable U. dominance in the global energy market. This innovative battery design offers a safe, cost-effective, and environmentally friendly solution for.

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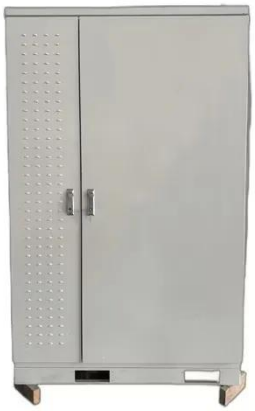

From The DOE's Pacific Northwest National Laboratory: "New All-Liquid

A commonplace chemical used in water treatment facilities has been repurposed for large-scale energy storage in a new battery design by researchers at the Department of Energy's Pacific Northwest ...

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Energy Storage

Over the last several decades, PNNL has seized the energy storage challenge and, in collaboration with stakeholders and research partners, is modernizing energy storage solutions to enable U.S. dominance in ...

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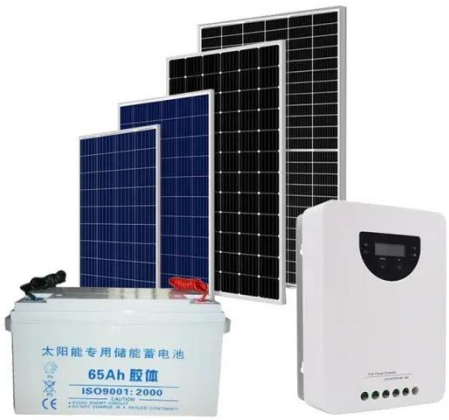

PNNL Researchers Develop All-Liquid Iron Flow Batteries for Utility

Researchers at the Department of Energy's Pacific Northwest National Laboratory (PNNL) have developed a new large-scale energy storage battery design featuring a commonplace chemical used in water ...

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Liquid iron flow battery could revolutionize energy storage, shows study

Researchers at the Pacific Northwest National Laboratory have made a breakthrough in energy storage technology with the development of a new type of battery called the liquid iron flow

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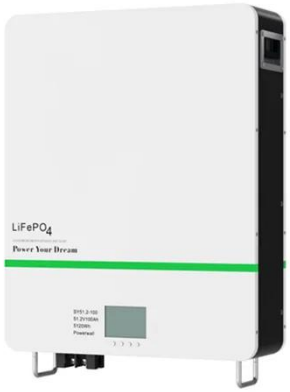

Technology Strategy Assessment

China's first megawatt iron-chromium flow battery energy storage demonstration project, which can store 6,000 kWh of electricity for 6 hours, was successfully tested and was approved for commercial ...

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New Iron Flow Battery Promises Safe, Scalable Energy Storage

Researchers at the Pacific Northwest National Laboratory have created a new iron flow battery design offering the potential for a safe, scalable renewable energy storage system.

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DOE Funds Long Duration

Energy Storage Projects with $15 Million

These projects will support DOE priorities such as the Long Duration Storage Shot and the Energy Storage Grand Challenge, which uses the extensive research capabilities of the DOE National Laboratories, ...

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New all-liquid iron flow battery for grid energy storage

A commonplace chemical used in water treatment facilities has been repurposed for large-scale energy storage in a new battery design by researchers at the Department of Energy's Pacific Northwest National Laboratory.

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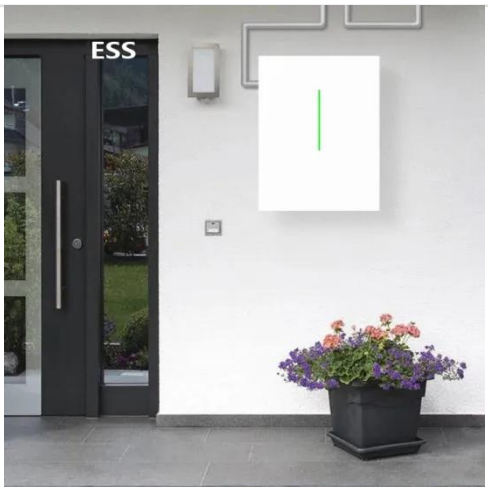

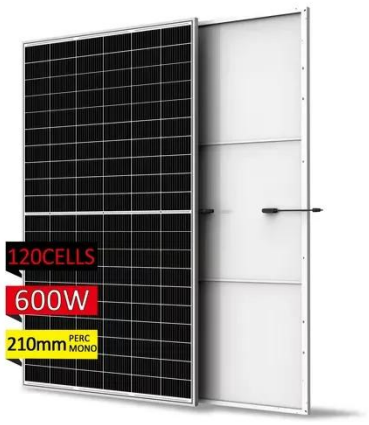

PNNL Develops Iron-Based Flow Battery for Safe, Grid-Scale Energy Storage

A team at the Department of Energy's Pacific Northwest National Laboratory (PNNL) has created a new battery design using an ordinary chemical used in water treatment facilities.

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