



New Energy Materials Energy Storage Laboratory

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.

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 facilities does Berkeley Lab have?

In addition, Berkeley Lab's Office of Science National User Facilities - including the Advanced Light Source, the Molecular Foundry, and the National Energy Research Scientific Computing Center (NERSC) - offer world-leading capabilities in energy storage technology discovery, modeling and simulation, and materials synthesis and characterization.

What does Berkeley Lab do for ESRA?

Berkeley Lab's contributions to ESRA draw from its years of scientific leadership in energy storage research, which today focuses on working with national lab, academic, and industry partners to enable the nation's transition to a clean, affordable, and resilient energy future.

Where can I view past issues of Applied Energy Science?

View past issues: appliedenergyscience.lbl.gov/newsletters Join Berkeley Lab's Energy Storage Center +SLAC National Accelerator Laboratory for a virtual field trip seminar series exploring the sometimes surprising role energy storage plays in the world around us.

Who are PNNL's energy storage experts?

From left to right: Jie Xiao, Yuyan Shao, Jason Zhang, and Jun Liu. (Photo by Andrea Starr | Pacific Northwest National Laboratory) PNNL's energy storage experts are leading the nation's battery research and development agenda. They include highly cited researchers whose research ranks in the top one percent of those most cited in the field.

RICHLAND, Wash.--The urgent need to meet global clean energy goals has world leaders searching for faster solutions. To meet that call, the Department of Energy's Pacific Northwest National Laboratory has teamed ...

Grid Storage Launchpad will create realistic battery validation conditions for researchers and industry .



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WASHINGTON, DC - The U.S. Department of Energy's (DOE) Office of Electricity ...

Electrochemical energy storage technologies have a profound influence on daily life, and their development heavily relies on innovations in materials science. Recently, high ...

JCESR Renewed for Another Five Years September 18, 2018. The U.S. Department of Energy (DOE) announced its decision to renew the Joint Center for Energy Storage Research (JCESR), a DOE Energy Innovation Hub ...

Innovative materials with increased functionality can improve the energy productivity of U.S. manufacturing. Materials with novel properties will enable energy savings in energy-intensive processes and applications and will create ...

A multi-institutional research team led by Georgia Tech's Hailong Chen has developed a new, low-cost cathode that could radically improve lithium-ion batteries (LIBs) -- ...

Research fieldsThe New Energy and Materials Chemistry Laboratory currently focuses on key materials and technologies in the fields of hydrogen fuel cells and secondary batteries, ...

We work closely with academic, government and industry partners to conduct foundational and applied research that provides the groundwork for the development of transformative new energy technologies in the areas of ...

WASHINGTON, DC - The U.S. Department of Energy's (DOE) Office of Electricity (OE) is advancing electric grid resilience, reliability, and security with a new high-tech facility at the ...

PNNL's Energy Storage Materials Initiative (ESMI) is a five-year, strategic investment to develop new scientific approaches that accelerate energy storage research and development (R& D). The ESMI team is pioneering use of digital ...

Our goal is to identify and design nanomanufacturing approaches for electrode materials; to investigate how nanostructured electrodes can improve the charge storage and conversion ...

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