



Joint center for energy storage research

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What is the Joint Center for Energy Storage Research (JCESR)?

The Joint Center for Energy Storage Research (JCESR) is a major research partnership that integrates government, academic, and industrial researchers from many disciplines to overcome critical scientific and technical barriers and create new breakthrough energy storage technology.

What is JCESR?

Founded in 2012, JCESR is one of the Department of Energy's (DOE's) Energy Innovation Hubs. The mission of these Hubs is to advance promising areas of energy science and engineering from the earliest stages of research to the point of commercialization.

What is a JCESR hub?

The mission of these Hubs is to advance promising areas of energy science and engineering from the earliest stages of research to the point of commercialization. JCESR's research focuses exclusively on the development of next-generation, beyond-lithium-ion batteries.

Who are JCESR participants?

Led by DOE's Argonne National Laboratory, JCESR participants include government, academic, and industrial researchers from many disciplines. These participants are united in a major research project that combines discovery science, battery design, research prototyping, and manufacturing collaboration in a single highly interactive organization.

What's new at JCESR?

In our second five years, JCESR shifts its emphasis from specific battery systems to transformational materials that can be mixed and matched to build a diversity of next-generation batteries purpose-designed to specific applications. New to the management structure of JCESR is Research Integration.

How does JCESR deliver transformative materials?

JCESR will deliver these transformative materials by designing and building them from the bottom up, atom-by-atom and molecule-by-molecule, where each atom or molecule plays a prescribed role targeting overall materials behavior.

May 9, 2024, News Articles JCESR Concludes Decade-Long Mission, Leaves Lasting Impact on Battery Science The official end of the Joint Center for Energy Storage Research (JCESR) innovation hub occurred in June 2023 after more than a decade of research and development dedicated to one of humanity's most pressing challenges: the development of a better battery ...

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2023 after more than a decade of research and development dedicated to one of humanity's most pressing challenges: the development of a better battery to help usher in... [Read More](#). March 7, 2023, News Articles

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 led by Argonne National Laboratory and focused on advancing battery science and technology. The announcement was made by DOE Under Secretary ...

Use the filter to narrow the results further or please visit Joint Center for Energy Storage Research for more information. Below is a comprehensive list of articles, events, projects, references and research related content that is specific to the organization described above. ... Dr. Crabtree directed the overall strategy and goals for JCESR ...

JCESR science advances led to three startups based on JCESR intellectual property: Blue Current, for solid state electrolytes; Sepion, for size-selective polymer membranes; Form Energy, for commercializing air-breathing aqueous sulfur batteries for inexpensive, long-duration energy storage; Tomorrow's Legacy

JCESR is an intellectual and scientific leader in next generation energy storage research. Our researchers have invented a wide and diverse range of technologies in the "beyond lithium-ion" space with a primary focus on flow, lithium-sulfur, multivalent and solid-state batteries. ... The official end of the Joint Center for Energy Storage ...

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Within JCESR are institutions working across all stages of the innovation chain, from national laboratories and universities to industry. ... We continually interact with cooperating organizations across the full spectrum of energy storage science-from research institutions to battery technology companies to electric vehicle manufacturers to ...

George Crabtree, an Argonne National Laboratory Senior Scientist and Distinguished Fellow, was the Director of the Joint Center for Energy Storage Research from JCESR's founding in 2012 until his death in January 2023. As JCESR Director, Crabtree directed the overall strategy and goals of the research program and operational plan, acted as ...

Sandia is a national security laboratory with a long history of leading research and development of energy storage technologies. We have cradle-to-grave responsibility for all power sources for Department of Energy defense programs, and apply our expertise to support Department of Defense applications. [Learn More](#)



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As an innovative twist on traditional project management, JCESR conducts "Sprints," small teams of dedicated researchers formed to solve a select research challenge within 1-6 months. Using the Sprint approach, JCESR takes a single question from our catalog of prioritized scientific challenges and dedicates a...
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Venkat Srinivasan, an Argonne National Laboratory Senior Scientist, is the Director of the Joint Center for Energy Storage Research. From 2013 to 2023, he served as deputy director of JCESR and helped implement the scientific mission of the energy storage innovation hub. ... a Senior Scientist and Distinguished Fellow at Argonne National ...

The Joint Center for Energy Storage Research, or JCESR, is a partnership that brings together researchers, engineers, and manufacturers who share the goal of developing new, clean energy storage technologies for vehicles, the electric grid, and beyond. More than 150 scientists are focused on one mission -- to design and build new materials for next-generation batteries with ...

Venkat Srinivasan, an Argonne National Laboratory Senior Scientist, is the Director of the Joint Center for Energy Storage Research. From 2013 to 2023, he served as JCESR Deputy Director, Research and Development, helping to implement the scientific mission of the center.. Srinivasan is also director of the Argonne Collaborative Center for Energy Storage Science (ACCESS).

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In 2014 he became a member of JCESR. He successfully adapted 25Mg NMR methodologies, a very challenging nucleus to work with, to magnesium-ion battery materials for the first time. ... The official end of the Joint Center for Energy Storage Research (JCESR) innovation hub occurred in June 2023 after more than a decade of research and ...

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