New Energy Storage Colleges

Overview

An innovative thermal energy storage system in use at a New York state university campus is an example of the long-term energy vision for the college, and a blueprint for other institutions.

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M. Stanley Whittingham, distinguished professor of chemistry and Nobel Laureate, addresses the crowd at the official launch of the Upstate New York Energy Storage Engine Image Credit: Casey Staff. National Science Foundation (NSF) officials joined Binghamton University to officially launch the.

An innovative thermal energy storage system in use at a New York state university campus is an example of the long-term energy vision for the college, and a blueprint for other institutions. Commercial and industrial enterprises increasingly find the need to make their energy systems more efficient.

The Upstate New York Energy Storage Engine, led by Binghamton University with support from Cornell and other prestigious partners, is setting the stage for a regional revolution in energy storage technology. With backing from the National Science Foundation (NSF), this initiative aims to bolster.

On July 10, 2025, NSF issued an Important Notice providing updates to the agency's research security policies, including a research security training requirement, Malign Foreign Talent Recruitment Program annual certification requirement, prohibition on Confucius institutes and an updated FFDR.

The New York Power Authority (NYPA) collaborated with Renewable Thermal Collaborative Solutions Provider Brenmiller Energy to implement thermal energy storage (TES) at Purchase College’s physical education building. Completed in 2023, this $2.5 million project features a Brenmiller bGen™ TES unit.

Though wind and solar power are promising clean alternatives to fossil fuels, their natural unpredictability and intermittency prohibit them from comprising more than ~20% of grid power. Low cost technologies are needed to store renewable

energy at grid-scale on time-scales of 1 to 24 hours.

New Energy Storage Colleges

Cornell Tech

The Upstate New York Energy Storage Engine, led by Binghamton University with support from Cornell and other prestigious ...

[Case Study: Thermal Energy Storage at Purchase ...]

The case study examines how this integrated system aims to improve the building's energy efficiency, decrease operational costs, ...

[NY Funds Energy Efficiency at Two Public Colleges]

"The $150 million in new investments from the Environmental Bond Act will allow SUNY and CUNY to take a significant step forward in electrifying campuses and integrating ...

[NSF Energy Storage Engine in Upstate New York]

Energy storage technology is key to securing energy dominance and bolstering national security. Advances by this NSF Engine will be

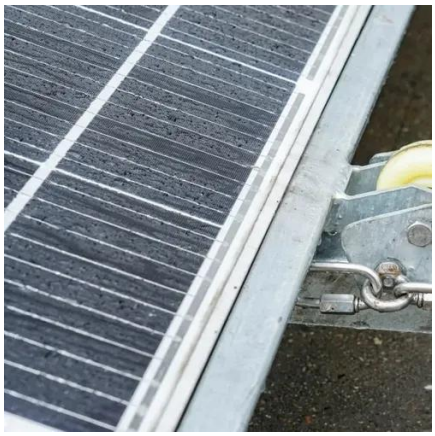
essential to ensuring that transition is ...

Case Study: Thermal Energy Storage at Purchase College, State

The case study examines how this integrated system aims to improve the building's energy efficiency, decrease operational costs, reduce greenhouse gas emissions, ...

Four Upstate NY universities partner to form 'Upstate New York Energy

The four academic institutions are joined by the New York Battery & Energy Storage Technology Consortium, Launch NY and CV4 to form a coalition.



University Core Partner in New NSF-Funded Upstate New York Energy

In addition to Binghamton and Syracuse, core partners include Rochester Institute of Technology, Cornell University, New York Battery and Energy Storage Technology ...

Binghamton University marks official launch of federally funded ...

This Binghamton University-led initiative, along with their New Energy New York partners, will focus on energy storage, an ambitious plan to revolutionize the way that energy is stored.

University Core Partner in New NSF-Funded ...

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Energy Storage - CUNY Energy Institute

Low cost technologies are needed to store renewable energy at grid-scale on time-scales of 1 to 24 hours. Flexible, large-scale energy storage would create a stronger and more robust ...

Energy Storage Project Boosts Efficiency, Provides Savings, ...

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Engine , New Energy New York

The Engine leverages upstate New York's premier universities, research and development ecosystem, and state-of-the-art prototyping and testbed ...

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Engine , New Energy New York

The Engine leverages upstate New York's premier universities, research and development ecosystem, and state-of-the-art prototyping and testbed infrastructure to catalyze innovation ...

Contact Us

For inquiries, pricing, or partnerships:
https://www.sccd-sk.eu
Phone: +32 2 808 71 94
Email: info@sccd-sk.eu

Scan QR code for WhatsApp.