



NEWSLETTER



December 17, 2020

It goes without saying that 2020 was not the year that we expected it to be.

We never know what the future holds, but this past year tested us all in ways that will likely reshape our world for years, if not decades or longer. Despite near-complete shutdowns of our economies, work- and school- from home requirements and the tragic impacts felt by so many from Covid-19, we have weathered this still-raging storm and done it well.

With respect to NY-BEST, this year's challenges were many, and that we have remained a strong and vibrant voice for the energy storage industry in New York State is truly a testament to our many, many friends and supporters. From our amazing board of directors, to our members and the members of the Policy Leadership Circle, our talented staff and the many individuals who gave of their time and talents to support our virtual conferences, education events, webinars and work groups—the list of those who have forged our success in this past year is long, and I am deeply grateful for all your contributions. We are stronger together, and I will be forever grateful for everyone who stuck with us and adapted to our 'new normal'. Thank you all.

As a way to further thank everyone, I'm pleased to announce that as of today, **the entire NY-BEST catalog of online conferences, webinars and educational programs will be offered at half price**. Anyone interested in perusing the library of available content can find [descriptions and updated pricing here](#).

Thank you to everyone who participated in our Energy Storage Technology and Innovation virtual conference last week. I'm pleased to announce the winners of our annual student poster contest featuring technical innovations in energy storage. The posters were on display at the Conference and were reviewed and scored by a panel of expert judges. The scoring was very competitive and top five posters being awarded prizes are as follows

1st Place: Mateusz Zuba, *Binghamton University. Operando XAS To Illustrate The Importance Of Electrical Conductivity In ϵ -VOPO₄*. Prize: \$300 gift card

2nd Place: Anshika Goel, *Binghamton University. Battery 500, Optimization of calcination temperature for NMC9055*. Prize: \$200 gift card

3rd Place: Ben Pei, *Binghamton University*. *In-situ Al substitution enhances the electrochemical performance of high nickel cathode material*. Prize: \$100 gift card

4th Place: Killian Tallman, *Stony Brook University*. *Surface Modified Graphite Electrodes for Limiting Lithium Plating and Enabling Fast Charging of Li-Ion Batteries*. Prize: \$100 gift card

5th Place: Max Graham, *Cornell University*. *Green Hydrogen as a Versatile Energy Storage Solution*. Prize: \$100 gift card

NY-BEST congratulates the winners and is grateful for the participation of everyone who presented their excellent work at our virtual conference!

Best wishes for a wonderful, safe holiday season and for a prosperous and happy new year!

Sincerely,



William P. Acker

Executive Director

CURRENT NEWS

NY-BEST Members

[*Supercell Technology From Cadenza Is Centerpiece Of New York Energy Storage Project*](#)

Cadenza Innovation's lithium-ion supercell technology is centerpiece to a fully integrated, metal-enclosed, and rack-mounted 250 kilowatt-hour (kWh), 50 kilowatt (kW) battery storage unit located outside the New York Power Authority (NYPA) in White Plains.

[*Con Ed Inks Deal to Build New York's Biggest Battery Storage in Astoria*](#)

Con Edison signed a deal with partner 174 Power Global to build the facility that will store enough green energy to power 16,000 customers for several hours, or the World Trade Center for a day.

[*New York Power Authority Approves the VISION2030 Energy Roadmap*](#)

VISION2030 includes a path to decarbonization by transitioning NYPA's natural gas plants to low- or zero-carbon emission technologies and committing to supplying its customers with carbon-free electricity by 2035, five years ahead of the goal of carbon-free electricity by 2040.

[*Li-Cycle opens battery recycling facility in Northeast*](#)

Mississauga, Ontario-based company Li-Cycle Corp. announced that its Spoke 2 facility in Rochester, N.Y. is now fully operational. The plant will be able to process up to 5,000 metric tons of spent lithium-ion batteries per year, producing an intermediate mixed-battery material known as "black mass."

[*Zinc8 Energy Solutions selected to join New York's prestigious Scale for ClimateTech accelerator*](#)

The company expects its inclusion in the program will accelerate commercialization efforts for its long-duration, zinc-air Energy Storage System.

[*NYPAs strategic clean transformation plan includes focus on short- and long-duration storage tech*](#)

A new strategic plan putting the New York Power Authority (NYPA) on the path to 100% carbon-free electricity by 2035 - five years earlier than the target set out in the US state's policy goals - has been approved by the state public power organisation's Board of Trustees.

[*Does low-cost renewable energy, storage mean hydrogen is here to stay?*](#)

Enel Green Power and other companies have begun plans for co-locating green hydrogen plants with renewable energy developments in the U.S., which according to IHS Markit is on track to exceed \$1 billion in hydrogen production within three years.

Beyond NY-BEST

[*US sets new record in energy storage deployment*](#)

A new report released by Wood Mackenzie and the US Energy Storage Association states the US energy storage market has increased by 240% in the third quarter of 2020 compared to the second quarter.

[*G.M. Accelerates Its Ambitions for Electric Vehicles*](#)

General Motors says it will increase its investment and model offerings over the next five years "to expedite the transition to E.V.s."

[*How does the US retire 236 GW of coal and 1,000 gas peaker plants?*](#)

Victory in the economic realm (increasingly the case with solar, solar-plus-storage and wind) is no guarantee of market victory if the regulations are stacked against renewables.

[*EDF continues energy storage push with PowerUp investment*](#)

EDF has invested in cleantech startup PowerUp in a bid to support its 10GW of storage by 2035 ambitions.

[*Study: California needs up to 55 GW of long duration energy storage by 2045; 150X the storage deployed since 2010*](#)

By 2045, California will require the deployment of up to a staggering 55 gigawatts (GW) of long duration energy storage (LDES) to support its 100% clean electricity goals, according to a new modeling study released by the California Energy Storage Alliance (CESA).

[*Utility Hydro-Québec launches battery storage subsidiary and 90MW hydrogen project*](#)

Canadian public utility company and transmission system operator Hydro-Québec has launched a battery energy storage subsidiary as well as announcing a large-scale green hydrogen project.

[*Arizona utility issues RFPs for renewables, battery storage retrofits*](#)

Arizona Public Service (APS) has issued a request for proposals (RFP) for 300-400MW of renewables capacity and for energy storage to be retrofitted at its solar plants.

[*Clean Energy Funding Finds Its Way Into Congressional Spending Bill*](#)

Advocates of clean energy may get a last-minute present from Congress this year in the form of a bipartisan package of programs to boost funding for renewable energy, energy storage, electric vehicles, carbon capture and other low-carbon and electric technologies.

[*Is FERC Order 2222 enough to push virtual power plants into the energy mainstream?*](#)

Aggregating DERs via virtual power plants has customers, utilities and financiers all ready to buy in. With FERC Order 2222, the question for two California aggregators is whether their models will play in less DER-friendly markets.

[*Biden Plans To Nominate Former Michigan Gov. Jennifer Granholm As Energy Secretary*](#)

Granholm will bring experience in promoting clean-energy manufacturing as Biden tries to implement a sweeping \$2 trillion climate plan.

[*The Making of Biden's Superfast Push for Clean Electricity*](#)

Joe Biden put a 100% clean grid at the core of his climate agenda. Even more remarkable was his proposed timeline: 15 years. It was startlingly ambitious, considering his prior goals for eliminating emissions focused on a more gradual and familiar 30-year timetable.

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