



NEW YORK BATTERY
AND ENERGY STORAGE
TECHNOLOGY CONSORTIUM

NEWSLETTER

January 17, 2020

In his annual State of the State address last week, Governor Andrew M. Cuomo highlighted a number of initiatives in support of achieving the State's nation-leading goals for decarbonization of the electric grid and reductions of greenhouse gas emissions that will create and enhance opportunities for electrified transportation and energy storage. Initiatives announced by the Governor to accelerate electrification of the transportation sector, expand renewable energy and meet the State's zero carbon emissions goal by 2040 include:

Empaneling Blue Ribbon Task Force to Expand Electric Vehicles: Governor Cuomo will convene an electric vehicle (EV) technology task force led by Binghamton University's (and long-time NY-BEST board member) Dr. M. Stanley Whittingham - who was awarded a 2019 Nobel Prize in Chemistry for his foundational work on lithium ion batteries - and co-chaired by NYSERDA to identify research and development opportunities and expand the transportation innovation economy across New York State.

Increasing Solar, Onshore Wind and Storage Capacity by More Than 1,000 Megawatts: NYSERDA will make competitive awards to 21 large-scale solar, wind and energy storage projects across upstate New York, totaling over 1,000 megawatts of renewable capacity and 40 megawatts of energy storage capacity. Taken together, these efforts will spur over \$2.5 billion in private sector investments toward the development, construction and operation of clean energy projects, create over 2,000 short-term and long-term jobs and generate enough renewable electricity annually to power over 350,000 homes. In addition, NYPA will work with state agencies and authorities and its customers to competitively contract for clean energy resources to further accelerate progress towards meeting the State's aggressive renewable energy goals.

Prepare the Electric Grid for New, Renewable Generation: The state will put together a plan for

authorizing and building new transmission capacity to bring clean and renewable power to areas that need additional electricity capacity, prioritizing using existing rights of way. The plan will include upgrading the grid with smart new technology that increases the capacity and effectiveness of the system, such as battery storage technology.

Other transportation-related efforts will Electrify Upstate Transit Systems, Build a Robust Network of EV Chargers Throughout New York and Invest \$100 Million in Green Bank Financing to Attract EV-Sector Manufacturers and Other Related Businesses. [More detail on the Governor's address and these and other proposed initiatives can be found here.](#)

Also last week, the US Department of Energy announced the launch of the Energy Storage Grand Challenge, a comprehensive program to accelerate the development, commercialization, and utilization of next-generation energy storage technologies and sustain American global leadership in energy storage. Through a coordinated suite of R&D funding opportunities, prizes, partnerships, and other programs, the Energy Storage Grand Challenge will establish goals for the U.S. to reach by 2030 in a number of areas, including technology development, technology transfer, policy and valuation, manufacturing and supply chain and workforce training.

Over the coming weeks, DOE will release an RFI seeking input and host a series of workshops with key stakeholders to share information about various storage technologies, learn more about current barriers to deployment, and help shape the work that will bring those technologies to market. [Additional information about the Grand Challenge and upcoming events can be found here.](#)

And as a reminder, NY-BEST will soon be hosting our [10th Annual Capture the Energy Conference & Expo](#) on April 1-2, 2020 at the Albany Capital Center in Albany, New York.

2020 marks the 10th Anniversary of the founding of NY-BEST and ten years of success as an industry leader. In 2019, NY-BEST Board Vice Chair M. Stanley Whittingham was awarded the Nobel Prize in Chemistry. This year's conference will celebrate and honor these two great achievements, while also looking ahead to the ever-growing opportunities for energy storage in New York. NY-BEST's 10th Annual Capture the Energy Conference & Expo is the premier event for companies seeking opportunities in New York's rapidly growing energy storage markets.

Please plan to join NY-BEST for this content-rich, 2-day conference. [A small number of sponsorship](#)

[opportunities remain](#)—if you are interested in sponsoring please contact info@ny-best.org or call 518-694-8474.

I look forward to seeing you in Albany on April 1-2 for what promises to be an outstanding event!

Best Regards,



William Acker
Executive Director



Upcoming Events

10th Annual Capture the Energy Conference & Expo

Apr 1 7:45 am - Apr 2 1:30 pm

Member Spotlight: TRC



TRC is an energy industry pacesetter and pioneer. Our teams have steered U.S. breakthroughs in renewable energy development, end-user energy management and environmental protection since the 1970s. We plan, permit, engineer and construct utility-scale solar energy projects with developers, utilities...

Latest News

Funding Opportunities

NY-BEST members received information in this newsletter about upcoming funding opportunities. Becoming a member is easy and economical. Visit <http://www.ny-best.org/Join> for more information.

If your organization is a NY-BEST member, [simply login](#) to access all funding opportunities.

No account? Click "Create New Account" from the [login page](#).



NY-BEST Member News

NEC Energy Solutions to Provide 100MW of Grid Energy Storage Projects in Northern Ireland for Gore Street Energy Storage Fund

The 100MW portfolio includes two 50MW projects which are the largest in Northern Ireland.

Virtual power plants: Enel X's aggregated home storage goes into action in Italy

A regulatory framework put in place by Italy's grid operator TERNIA has enabled Enel X to aggregate residential energy storage systems to pool their capabilities, including their use as 'virtual power plants' to help balance the network.

Davos News: Cadenza Innovation Founder to Participate in the World Economic Forum's 50th Anniversary "Golden Jubilee"

Cadenza Innovation, the award-winning provider of a patented battery architecture for license to manufacturers to enable safer, lower cost, higher-performing lithium-ion-based (Li-ion) energy storage solutions, today announced that Founder and CEO Dr. Christina Lampe-Onnerud will be leading discussions about clean energy technologies, partnerships and financial models at the World Economic Forum's 50th Annual Meeting in Davos-Klosters, Switzerland.

New aqueous lithium-ion battery improves safety without sacrificing performance

Engineers have now demonstrated how they could -- by using aqueous electrolytes

instead of the typical organic electrolytes -- assemble a substantially safer, cost-efficient battery that still performs well.

[CDTA Rolls Out Upstate New York's First Electric Buses](#)

CDTA says the first battery electric powered buses in upstate New York are set to run as a six-month pilot program designed to evaluate the vehicles.

[New York Modifies Interconnection Requirements for Distributed Energy Resources](#)

On December 13, the New York Public Service Commission ("Commission") approved updates to the State's Standardized Interconnection Requirements ("SIR") – the set of rules governing how distributed energy resources, such as community solar and retail energy storage systems, connect to the grid.

[2019: A Big Year for Reducing Building Emissions in NYC](#)

NYC took a tremendous leap forward this year to reduce its greenhouse gas footprint with the adoption of its landmark building decarbonization law.

[To Store Renewable Energy, Try Freezing Air](#)

A British company called Highview Power proposes a novel solution: a storage system that uses renewable electricity from solar or wind to freeze air into a liquid state where it can be kept in insulated storage tanks for hours or even weeks.

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News From Beyond New York

[Energy Department Launches Challenge for Next-Gen Storage Technologies](#)

The agency will coordinate a range of research and development funding opportunities, prizes, partnerships and other activities to meet a set of strategic goals by 2030.

[New York Is Fertile Ground for Clean Energy 01/09/2020 | Aaron Larson](#)

On Jan. 8, New York Gov. Andrew Cuomo gave his 2020 State of the State address, outlining what his office has called a "bold agenda to continue New York's role as progressive capital of the nation." Among the many proposals he put forth was a plan to grow New York's "Green Economy."

[US battery storage prospects lifted by policy progress, cost reduction](#)

State policies and peaking capacity needs will remain the major drivers of near to

medium-term battery deployments. Platts Analytics expects more than 13 GW of utility-scale battery storage to be commissioned by 2024 in the US.

Is Hydrogen the Power Industry's Holy Grail?

Some power industry insiders believe hydrogen offers a solution to large-scale energy storage problems. The concept generally revolves around utilizing electricity generated by renewables when supply is high and demand is low.

California has big clean energy ambitions, and is looking for better energy storage to realize them

The California Energy Commission (CEC) is putting up to \$11 million on the table for developers of energy storage technologies other than lithium-ion batteries, according to a solicitation launched last month.

The Climate Crisis Is the Battle of Our Time, and We Can Win

This year, several American utilities have announced plans to close existing natural gas and coal generating plants — some with decades of useful life remaining — to replace their output with cheaper electricity from wind and solar farms connected to ever-cheaper battery storage.

Feature: Electricity storage set for bright 2020 despite 'headwind of policy uncertainty'

There is little doubt that 2020 is going to be a good year for the electric storage industry, but policy decisions in the coming year are poised to shape the pace of growth and revenue potential for the sector.

Energy Storage: Plenty in Store

Energy storage development has skyrocketed and now totals 2,169 projects worldwide encompassing at least 64,656 individual systems, according to Navigant Research's fourth-quarter report.

Power Failure: Automakers Are All in on Electric Cars, But US Infrastructure Is Unprepared

According to a 2019 AAA survey, the biggest deterrents to buying an electric vehicle all concerned charging.

What Would It Take for the US to Become an Energy Storage Manufacturing Powerhouse?

After "missed opportunity" in solar, Trump administration wants a domestic supply chain for energy storage. Is that realistic?

[Five 2020 Energy Predictions: Solar Surge, Coal Crash, Gas Exorcism, Clean Energy Incentives, Public Mobilization](#)

2019 may have been the year clean energy irreversibly turned a corner toward dominance in the United States. After all, who could have foreseen last January that America would realize existing coal can't compete against new renewables, see new solar-plus-storage beat new natural gas generation on price, have 13 states and territories committed to 100% clean electricity, or envision a path to nationwide net zero emissions?



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This email is provided as a service to members and interested parties of the New York Battery and Energy Storage Technology Consortium. NY-BEST is an industry-led coalition working to build a vibrant, world-class, advanced battery and energy storage sector in New York State.