NEW YORK BATTERY AND ENERGY STORAGE TECHNOLOGY CONSORTIUM

NEWSLETTER

April 29, 2020

I hope that you and your families are safe and well, continuing to shelter in place and finding pleasant and productive ways to get through this challenging time. Yesterday, Governor Andrew M. Cuomo outlined a phased plan to safely reopen New York at the appropriate time, taking a regional approach. Phase one will be to reopen low-risk construction and manufacturing businesses in parts of the state that have experienced a 14-day decline in the hospitalization rate. Phase two will open certain industries based on priority and risk level. (Businesses considered "more essential" with inherent low risks of infection in the workplace and to the customer will be prioritized.) Officials are closely monitoring the hospitalization rate, the infection rate, and other key health indicators, and will make adjustments to the plan based on this crucial data.

The Governor's plan calls for a two-week waiting period in-between phases of this plan to monitor the effect. Additional details on the plan can be found on the Governor's website here, and as further information is made available, we will publish it on the NY-BEST website on the Resources to Navigate COVID-19 page.

PSEG Long Island recently released their 2020 Bulk Energy Storage RFI. The RFI is available on PSEG Long Island website. PSEG states that it views its share of the 1500 MW statewide storage goal as 200 MW. PSEG expects to meet a portion of this 200 MW goal through existing energy storage contracts and PSEGLI/LIPA initiatives outside of the RFP including behind-the meter programs and distribution-level storage projects proposed in PSEGLI's Utility 2.0 Long Range Plan. PSEGLI's 2020 Bulk Energy Storage RFP (the "RFP") is expected to have a goal to obtain between 155 MW and 175 MW. Submissions are due by May 15, 2020.

Separately, PSEG LI issued the North Fork RFI that will inform a decision about whether to issue an RFP to procure resources to serve up to 120 MW of demand on the North Fork of Long Island. The Request for

Proposal (RFP) for energy resources that are either located on the North Fork of Long Island and/or directly interconnected to the North Fork Long Island electric grid is expected to be issued, if required, in the third quarter of 2020. More information can be found on the PSEG Long Island website here. Submissions are due by June 18, 2020.

Interested in learning more about market opportunities for energy storage in the electricity markets managed by the New York Independent System Operator (NYISO)? Join us for our upcoming two-part virtual educational course "Understanding NYISO Markets for Energy Storage" to explore NYISO rules for energy storage market participation, including Energy, Ancillary Services and Capacity. The material on the webinar will be presented by Peter Fuller, Principal of Autumn Lane Energy Consulting.

Through the virtual webinar course— to be held through two 2-hour sessions on May 14 and May 21—and the accompanying 50-page ***NY-BEST NYISO Guidebook for Energy Storage***, attendees will gain in-depth knowledge on the unique aspects of deploying energy storage in New York State. More information on the sessions and the Guidebook are available on our website.

Be well and stay safe!

Best Regards,

William Acker
Executive Director

Upcoming Events

Understanding NYISO Markets for Energy Storage with Bonus Guidebook

May 14 3:00 pm - May 21 5:00 pm

NY-BEST Capture the Energy Pre-Conference Workshop

Aug 4 1:30 pm - 5:00 pm

10th Annual Capture the Energy Conference & Expo

Aug 5 7:45 am - Aug 6 2:30 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

The Latest News From The Battery And Energy Storage Industry

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

FERC to Hear New York's Arguments Against Mitigation of Renewables

On April 20, 2020, the Federal Energy Regulatory Commission ("FERC") granted rehearing on three recently issued Orders significantly impacting renewable energy resource participation in New York State's wholesale energy markets.

COVID-19 disrupts storage bidding processes for New York utilities, but state report shows progress

New York state is nearly halfway done hitting its interim target of 1,500 MW of energy storage by 2025, with 706 MW in storage projects already deployed or having received power contracts, the New York Department of Public Service (DPS) announced in its first annual "State of Storage" report released April 1.

New York's 'VDER' Alternative Payment Method Helps Spur Energy Storage

New York is well on its way to meeting the state's goal of having 1,500 MW of energy storage by 2025 and 3,000 MW by the end of the decade, and the 'value of distributed energy resources,' or VDER, mechanism gets part of the credit, according to a report released by state utility regulators.

New York Offers Guidance on Essential Energy Businesses During COVID-19 Pandemic

New York's Empire State Development, a public authority charged with economic development across New York and Gov. Andrew Cuomo's designated point agency for business-related COVID-19 impacts, issued new guidance on March 31 for contractors building energy and renewable energy projects, energy efficiency in buildings and new electric vehicle infrastructure in the state.

New York City launches 'sustainability challenge' amid coronavirus crisis

Submitted proposals will offer sustainable solutions for the energy storage, the building materials and the reduction of 'embodied carbon'

NYISO Takes First Steps on Tariff Amendments for Energy Storage Resources

On March 18, 2020, the New York Independent System Operator's (NYISO) Business Issues Committee (BIC) recommended new tariff language for the energy storage resource (ESR) model.

Tesla completes massive expansion of its 'world's biggest battery'

The expansion is adding 50 MW/64.5 MWh of capacity at the site – bringing the total to 150 MW/193.5 MWh.

In New York, a New Way for Stay-at-Home Customers to Get Paid for Shaving Peak Energy

A new program in Westchester County will allow customers to make money at home using software, smart meters and demand response.

Will New York "Take Back" the Function of Ensuring Electricity Resource Adequacy?

New York State is in the midst of assessing how it can achieve the ambitious renewable energy targets of the 2019 Climate Leadership and Community Protection Act (CLCPA) – notably, 70% renewable energy by 2030, 100% clean energy by 2040, and three gigawatts (GWs) of energy storage by 2025 – while also ensuring the reliability of the State's electricity system.

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News From Beyond New York

GM and Honda are co-developing two new electric vehicles due to arrive in 2024

GM and Honda will jointly develop two new electric vehicles slated for 2024, the latest move by the two automakers to deepen their existing partnership.

To Understand the Medical Supply Shortage, It Helps to Know How the U.S. Lost the Lithium Ion Battery to China

With so many critical health care products now made offshore that supplies could not meet surging demand as the coronavirus overwhelmed hospitals, America's attention has again turned to the atrophied state of domestic manufacturing.

BYD and Toyota detail electric vehicle joint venture for China

The two automakers will invest 50-50 in a new company—BYD Toyota EV Technology Co. Ltd—with operations scheduled to start in May.

Storage companies raised $244 million in corporate funding to start 2020

A new report released by Mercom Capital shows that while funding is down from Q4 2019, it is up substantially year-over-year.

How an energy jobs coalition can help the US economy bounce back

The chorus is growing louder: in addition to halting the increases in coronavirus cases, we need an energy stimulus package focused on rebuilding the economy. Job creation and infrastructure development will be key.

Hybrid Power Plants Are Growing Rapidly, But Are They a Good Idea?

Co-locating batteries with renewables has taken off rapidly. It's not always the right move, the author writes.

Energy storage net metering: An illustration of why it's so valuable

Energy storage net energy metering (aka NEM paired storage) allows a customer with a behind-the-meter solar + storage system to discharge their battery, exporting stored energy back to the grid and receive a net energy metering credit, if the battery can verifiably charge 100% from solar.

Why We Need More Public Investment in Energy Storage Technology

As public awareness around the challenge of energy storage grows, we need public funding and support to help this sector of the energy industry rise with it.

Conveyor Energy Storage: A Battery and Pumped Hydro Alternative

A new conveyor-based system offers an alternative energy storage technology. The heart of the system is a reversible conveyor belt that converts between electrical energy and gravitational potential energy by transporting bulk granular materials between two stockpiles at different elevations.

The 5 Most Promising Long-Duration Storage Technologies Left Standing

Low-carbon grids need longer-duration storage, but few technologies have succeeded at scale. Here's the current roster of best bets.

On the road to high-value recycling, storage is ahead of solar

Solar lags, at least in part, because the major components of panels — glass and silicon — while highly recyclable, are not as valuable as the lithium, cobalt and nickel in batteries.

Li-ion co-inventor patents glass battery that could upturn auto industry

A patent application for a new battery that uses glass as a key component has been submitted by a team headed by John Goodenough, the part winner of the 2019 Nobel Prize in Chemistry for his work as co-inventor of the now ubiquitous lithium-ion battery that is the go-to power source for electric cars and energy storage.

DOE eyes storage technologies to improve the performance of fossil fuel plants

The U.S. Department of Energy (DOE) is exploring the possibility of using energy storage resources to improve the performance and flexibility of fossil fuel plants, and intends to announce a funding opportunity for projects in the second quarter of 2020.

FERC to Convene Technical Conference on Generation Resources Paired with Energy Storage

On April 7, 2020, the Federal Energy Regulatory Commission ("FERC") announced that its staff will host a technical conference in July 2020 to discuss so-called "hybrid resources."

Electric Vehicles Buoyed by a Backlog and Fresh Air

Even in March, as pandemic lockdowns swept the globe, sales of battery-powered vehicles—including plug-in hybrids—surged in France, Germany, the Netherlands, Sweden and the UK, according to a new report from Bloomberg New Energy Finance.

GM Plots an EV Comeback Inside Its Secretive Battery Lab

f General Motors is to successfully challenge Tesla for supremacy in EVs, the battle starts with better battery technology. Research, prototyping, and testing take place here at the company's Global Battery Systems Lab 20 miles north of Detroit.

Energy Department Announces Intent to Fund Energy Storage Projects

The U.S. Department of Energy's (DOE) Office of Fossil Energy (FE) has issued a Notice of Intent for a funding opportunity announcement (FOA) to advance energy storage technologies capable of improving the overall performance, reliability, and flexibility of fossil-fueled assets.

Redox-Flow Cell Stores Renewable Energy as Hydrogen

A hybrid energy system combines a redox-flow battery with a water electrolyzer for low-cost grid storage

Volkswagen Bets On Vehicle-To-Grid Technology, UL Approves First V2G Certification

Michael Jost, chief strategist for the German car company, recently told journalists in Berlin that electric car batteries could be used to stabilize the energy grid by charging the battery in times of excess supply and selling electricity back to the grid at times when supplies of electricity from wind and solar power are low

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