



NEW YORK BATTERY
AND ENERGY STORAGE
TECHNOLOGY CONSORTIUM

NEWSLETTER

May 29, 2019

Dear NY-BEST Members and Colleagues,

On Thursday, May 30th, the FDNY is hosting a public hearing on the [proposed rules](#) for outdoor stationary energy storage systems. Although it has been a long and arduous process to get to this point, it appears that FDNY has incorporated a great deal of industry input in the proposed rules. NY-BEST is finalizing comments on the proposed rules, due on May 30th, and we encourage interested parties to provide input to us as soon as possible. FDNY is interested in feedback from industry and we remain hopeful that the implementation of these rules will accelerate the deployment of energy storage systems in the five boroughs.

In other news, NY-BEST is hiring a Program Associate to join our team. If you are interested or know of possible candidates, please share the [job posting](#), or reach out to the NY-BEST team for more information about the position.

We are currently accepting speaker abstracts for our [Fall Energy Storage Technology and Innovation Conference](#). This one-day conference will focus on the **latest innovations** and **technological advances** in the rapidly growing field of energy storage technology. Abstracts are due by June 21, 2019.

Two upcoming events that NY-BEST staff will be attending and may be of interest to energy storage industry stakeholders include:

[CUNY Solar + Storage Summit](#) at John Jay College in New York City, June 13, 2019. This event will include numerous speakers from the state, city, and industry. Registration is available [here](#).

[NYSERDA Onsite Resilient Power Conference](#), June 27, 2019 at the Brooklyn Bridge Marriott. This conference will feature discussions about how CHP, solar, storage, and other DERs can contribute to resiliency projects. Registration is available [here](#).

NY-BEST Services

NY-BEST offers technical assistance for any companies looking to develop energy storage projects in the state. Whether you are considering customer sited, distribution-level, or wholesale energy storage projects; our experts can provide expertise to help simplify the path forward. Reach out to the NY-BEST Team for more information.

We'd like to remind energy storage start-ups that NY-BEST offers expert incubation services to qualifying New York based start-ups through our [NY-BEST BRIDGE](#) program. Applications for the program can be found on our [website](#). If you have any questions, please contact us at info@ny-best.org.

For companies interested in battery and energy storage product development and testing services, remember that NY-BEST, together with our partners, offers a variety of services and resources that are available to members for discounted rates, including battery testing services at the [BEST Test and Commercialization Center](#), and prototyping services at the [Battery Prototyping Center at RIT](#)

Membership

To ensure our records are accurate, we are requesting that members update their profiles. Please visit our [website](#) and log into your company profile to update mailing address, emails, employees, etc. if necessary. Please contact info@ny-best.org with questions.

Opportunities

NYSERDA has announced new workforce development opportunities for clean energy companies in New York. Three new workforce programs totaling \$27.5 million will ensure that new employees have the right expertise, experience, and credentials to meet the clean energy industry's job demands: The Energy Efficiency and Clean Technology Training Program ([PON 3981](#)) will provide \$7 million in funding for training providers to develop and deliver training at all levels to meet employer needs. The On-the-Job Training Program ([PON 3982](#)) will offer \$10 million in wage support for clean energy businesses that hire

new employees. The Clean Energy Internship Program ([PON 4000](#)) will invest \$10.5 million to support intern wages for New York State businesses.

We would like to welcome the newest members of NY-BEST:

Hudson Energy Development (Albany, NY) - is a New York-based energy development company recently founded by several experienced and successful energy industry professionals now active in the region's renewable energy market.

RadTech—Association for UV+EB Technology (Chevy Chase, MD) - is the non-profit trade association dedicated to ultraviolet and electron beam curing technologies.

Tenaska Power Services (Omaha, NE) - is an experienced power marketer that offers utilities, municipalities, large industrial clients and independent power producers a variety of optimization, risk management, power trading and settlement services.

WEG (Barre, VT) - Founded in 1961, WEG has grown into a global solutions provider of industrial electrical technologies. WEG products and EPC services include electric generators, wind turbines, solar, hydropower, battery energy storage, controls, transformers, and drives. WEG U.S. is headquartered in Duluth, GA and includes 9 facilities around the country. The energy storage business is developing Vermont, New York and Northeast based grid-scale projects and supporting other projects around the world.

Best Regards,



William Acker
Executive Director



Upcoming Events

NY-BEST Energy Storage Innovation Conference

Oct 2 8:00 am - 6:30 pm

Clean Energy and Energy Storage Technologies: Growing a Clean Energy Economy

NY-BEST Capture the Energy 2020

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

Save the date for NY-BEST's Annual Conference Capture the Energy, April 1-2, 2020

Member Spotlight: ForeFront Power



ForeFront Power is a solar and energy storage project developer based out of San Francisco, CA with satellite offices in New York, Colorado, and Mexico. ForeFront was established in January 2017, after the successful acquisition of SunEdison's Commercial and Industrial division by Mitsui & Co....

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

[ESS Inc. Joins Power Africa in Partnership to Accelerate Deployment of Grid-Scale Flow Batteries on the Continent](#)

ESS Inc., the leading manufacturer of safe, low-cost and long-duration energy storage systems, announced that it has joined Power Africa, a U.S. Government-led partnership coordinated by the U.S. Agency for International Development (USAID), as a private sector partner. As the program's first flow battery partner, ESS Inc. has committed to deploying its long-duration energy storage solutions for microgrid and utility-scale projects throughout the continent. "We are excited to become a partner of the Power Africa program," said Craig Evans, founder and CEO of ESS Inc. "Our low cost, long-duration and long-life battery is especially suited for the needs of the African market, particularly in microgrid, renewable integration and utility grid strengthening applications. ESS Inc. looks forward to working with Power Africa and its network of project developers, utilities, and EPCs to expand the availability of electricity with the world's most environmentally friendly battery." Power Africa works with African governments and coordinates the efforts of 12 U.S. government agencies, 18 bilateral and multilateral partners, and nearly 150 private companies to remove barriers that impede energy development in sub-Saharan Africa. It was launched in 2013 with the goal of increasing access and availability of electric power throughout sub-Saharan Africa – where two out of three residents lack this basic service.

[Enel, Partners Complete 22-MW Battery Storage Plant in Germany](#)

Italy's Enel SpA (BIT:ENEL) celebrated on Thursday the completion and commissioning of a 22-MW energy storage plant in the German state of Brandenburg. The Cremzow Battery Energy Storage System (BESS) required a total investment of EUR 17 million (USD 19m). It will provide frequency regulation services to the country's Primary Control Reserve (PCR) market, helping to stabilise the local grid. The facility could also be integrated with ENERTRAG's wind farms at a later stage. Enel Green Power Germany

(EGP Germany) holds 90% of the special purpose vehicle (SPV) that owns the battery park, while local renewable power company ENERTRAG has the remaining 10%. Swiss energy storage solutions company Leclanche acted as the engineering, procurement and construction (EPC) contractor and manager, Enel noted.

[FERC Upholds Electric Storage Order](#)

FERC on Thursday rejected multiple requests to reconsider its landmark electric storage order, prompting a partial dissent from Commissioner Bernard McNamee over requests to allow states to opt out (RM16-23-001, AD16-20-001, Order No. 841-A). The majority rejected requests that it allow relevant electric retail regulatory authorities (RERRAs) the ability to opt out of its storage provisions, as the commission did for demand response under Order 719. The commissioners also rebuffed questions about their authority to require that power sold by RTO markets to an electric storage resource (ESR) for resale be at the wholesale LMP. Dissent McNamee's 13-page dissent said the majority "fails to recognize the states' interests in ESRs located behind a retail meter (behind-the-meter) or connected to distribution facilities."

[Engie Acquires Genbright to Unlock More Value From Distributed Storage and Solar Portfolio](#)

Engie North America has built a big portfolio of distributed energy projects across the U.S., ranging from more than 75 megawatts of behind-the-meter battery systems from Engie Storage (formerly Green Charge Networks), to the hundreds of megawatts of commercial solar projects in the works from the developer it acquired last year, SoCore Energy. On Wednesday, Engie North America acquired Genbright, a startup with software it believes can unlock a much broader range of revenue streams for these distributed energy resources (DERs), by linking them into the multiple opportunities being opened in U.S. wholesale energy markets. Genbright, founded in 2013, has built up a portfolio of more than 50 megawatts of solar, storage and demand response resources now using its proprietary wholesale market platform. Some showcase projects include a \$3 million deployment of 200 Ice Energy load-shifting air conditioner units on the Massachusetts island of Nantucket, a 1.5-megawatt/3-megawatt-hour behind-the-meter battery project with an unnamed commercial customer in Massachusetts, and a 5-megawatt/10-megawatt-hour front-of-meter battery being deployed in Maine.

[Energy Storage Firm ESS Delivers Flow Battery System to Camp Pendleton](#)

ESS Inc., a maker of energy storage systems, deployed an Energy Warehouse long-duration flow battery system at Marine Corps Base Camp Pendleton in San Diego,

California. The 50 kW / 400 kWh battery is integrated into a microgrid with a CleanSpark microgrid controller and provides up to eight hours of storage to enable back-up capabilities for critical loads; operational energy cost savings through on-site generation with storage; and full islanding capabilities for resilience. The project is being completed in partnership with the project's prime contractor, Bethel-Webcor JV.

[Everyone Wants to Combat Climate Change. How Fast Can NY Do It?](#)

Environmentalists have ambitious plans in Albany this year: codifying aggressive targets to wean the state off of fossil fuels; a moratorium on gas pipelines; and divesting billions of dollars in state pension funds from fossil fuel companies like Exxon Mobil Corp. Already this year, lawmakers approved a statewide ban on plastic bags and passed a package of bills cracking down on toxic chemicals in consumer products. "Gone are the days when we debated the doubts about whether climate change is happening or not," Peter Iwanowicz, executive director of Environmental Advocates of New York, said at a recent press conference with Democratic lawmakers. "For far too long, commonsense environmental measures that would protect our air, water and our health had little chance of becoming law in New York." But while several major environmental measures should be easier to advance since Republicans lost control of the state Senate, time is running out in this session for Democrats to check the remaining boxes on their environmental agenda.

[Tesla's Buffalo Factory Will Now Build Supercharger V3 and Energy Storage, Report Says](#)

Tesla's "Gigafactory 2" in New York is undergoing something of an identity crisis as of late. It's now mostly being used by Panasonic to make solar components, but soon, according to a Thursday report by Electrek, Tesla will give it new purpose as the home of Supercharger V3 electronics and energy storage (think Powerwall) production. Tesla is also using the facility to ramp up production on its long-awaited Solar Roof materials. Why is that a big deal? Well, there has been a fair amount of interest in Tesla's products that aren't cars, but with the brand's initial difficulties in getting the Model 3 car into volume production, those other products got pushed somewhat to the back burner. Now that production of cars has stabilized somewhat; it's becoming possible for Tesla to use some of its cell production for these other, less demanding projects.

[Green Mountain Power Sweetens the Pot to Boost Battery Storage](#)

Green Mountain Power's pilot program that encourages the use of home-storage batteries is being billed as a win for both Vermont consumers and Mother Earth. In the

process, it should also make the road easier for the utility as it travels toward its goal of a carbon-free future for its pristine corner of New England. The “Resilient Home” program offers a limited number of homeowners the unique opportunity to equip their residences with a pair of heavy-duty batteries that will bank electricity that can be used as an electricity reserve that Green Mountain Power (GMP) can draw on during periods of high demand that would otherwise require pricy spot-market power purchases from fossil-fuel peaker generators. The banked electricity can also be used to power homes left in the dark by an outage. “We have a vision of a battery system in every single home,” said Green Mountain Power President and CEO Mary Powell. “Our Resilient Home pilot program does this by breaking the old utility mold and transforming the way energy is delivered to customers, increasing their comfort and convenience in the face of increasing severity and frequency of storms in Vermont due to climate change.”

[Con Ed's New Approach to Meet Rising Electric Demand: Battery Farms](#)

Tucked between a school and church in Ozone Park, Queens is Con Edison's new pride and joy. Eight ordinary-looking shipping containers sit on the lot. It's what they contain that has Con Edison so excited: Rows upon rows of rechargeable lithium ion batteries. The company calls this the future of the electric utility industry. “These are energy storage batteries ... made for charging off the grid and discharging under long durations and frequently,” says Steven Goldman, the Chief Engineer for Con Edison's energy storage system.

[Shell's Industrial Customers in Ontario to be Offered Convergent's BTM Battery Storage](#)

Ontario's policy of rewarding large users of energy that reduce their demand for grid energy at peak times has resulted in Shell New Energies announcing 21MWh of projects with Convergent Energy + Power. US-Canadian project developer Convergent has been involved in some of the Canadian province's biggest energy storage projects to date, many of which have been covered by Energy-Storage.news. These include a 10MW/20MWh energy storage system, supplied by IHI Inc and completed in August 2018 which at the time was Canada's largest behind-the-meter (BTM) energy storage system. Since then, Fluence has said that it will deliver a 48MW / 144MWh C&I system in the Ontario city of Sault Ste Marie. Oil supermajor Shell has now signed up to a joint venture (JV) with Convergent Energy + Power which will see two Shell Canada Products facilities fitted with C&I energy storage systems, while the pair have said that they now “intend to collaborate on future projects for customers within and beyond Shell's affiliated portfolio”.

[BorgWarner Invests in Battery Startup Romeo Power Founded by Tesla and SpaceX Engineers](#)

BorgWarner, a large automotive supplier focused on powertrain components, is expanding into battery packs through a new investment in Romeo Power, a battery pack startup founded by former Tesla and SpaceX engineers. The companies have created a new joint venture to sell full electric powertrains. The electric vehicle revolution is not only affecting automakers but the entire supply chain. Several major companies, like Bosch and Continental, have invested billions of dollars to offer a lineup of products for electric vehicle programs. BorgWarner has also invested in electric drivetrains and now they are investing in battery packs through a new partnership with Romeo Power.

[Seeking an Edge, Developers and Investors Turn to 'PropTech'](#)

When executives at Rudin Management Company started looking for an operating system in 2009 to help them manage their building portfolio, the market for property technology was still in its infancy, and they came up empty-handed. A decade later, “proptech” is a hot buzzword in commercial real estate, as developers and investors seek an edge in buying, selling and managing their properties. The swelling market has attracted venture capitalists, who invested a record \$12 billion in proptech start-ups globally in 2017, according to a report from RE:Tech, a tech research marketing agency. And Rudin, a 94-year-old, family-run company, is now at the forefront of this booming tech sector.

[New York's Grid Operator Grapples With The Energy Transition](#)

New York state has some of the country's most ambitious clean energy and carbon reduction goals. It has a massive energy storage mandate. And it's in the midst of creating new market structures for distributed energy resources under its Reforming the Energy Vision initiative. In other words, it's a state that's transforming its energy structure at multiple levels — including its transmission grid and wholesale energy markets. On Thursday, the New York Independent System Operator (NYISO), the state's transmission system operator and market-maker, released its Power Trends 2019 report, highlighting how it's adapting to this changing state energy ecosystem. Among key updates are NYISO's progress toward a carbon pricing proposal that could make it the first grid operator in the country to put a price on carbon in its wholesale electricity market.

[New York's Energy Storage Incentive Could Spur Deployment of 1.8 GWh](#)

Energy storage companies now can apply for \$280 million in incentives allocated by New York's state government. Gov. Andrew Cuomo made energy storage a key pillar of his

strategy to secure 100 percent carbon-free electricity by 2040, because it can replace fossil-fueled plants to deliver power on demand. So far, grid battery projects in the state have appeared as pilots or one-offs; a thriving, sustainable business environment has not emerged with today's market rules and battery project pricing. New York leaders hope the new "bridge incentive" will fix that. The theory is that the funding will monetize some of the value of storage that companies cannot get compensation for yet. By supporting the early growth of the market, the bridge will get the industry to a sustainable place, phasing out as deployments grow.

[Community Solar May be the Solution to Help New York Go Green](#)

In the Parkchester neighborhood of the Bronx, on the rooftop of a self-storage center on Zerega Avenue, a sea change in how the city and state promote renewable power is in full swing. One of the city's first community solar projects, the Altus Bronx Community Solar Farm, showcases a new—and, advocates say, fast-growing—segment of the solar industry. Power generation is centralized on the rooftop of this self-storage company, which gets paid for hosting the panels. But 150 New Yorkers who subscribe to the program benefit from the power generated here—all without upfront costs or equipment installation—and see a 5 to 10 percent discount on their electricity bills.

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News From Beyond New York

[The Future of Energy Storage in the United States is Bright](#)

As utilities, independent power producers, and large corporates shift away from fossil fuels and toward renewable energy sources, energy storage is becoming a key piece of the renewable energy solution in the United States. Unlike fossil fuels where generators can control the amount of energy supplied and when it is supplied, solar and wind power are intermittent resources that produce energy only when the sun shines or when the wind blows. Energy storage is therefore critical not only to solve this intermittency challenge, but also to permit generators to respond rapidly to fluctuations in demand, thereby increasing grid resiliency and reducing the need for peaking plants to backstop such resources during periods of high electricity demand. As a result, energy storage will play a key role in the future of renewables development in the United States. Like other forms of renewable resources, the cost of storage, and of batteries in particular, has declined sharply over recent years, driven by expanding manufacturing capabilities and

an increase in the storage technology learning curve. This reduced cost has led to an increase in deployment of storage solutions. Battery storage, for example, has increased rapidly in recent years and appears poised for explosive future growth. While the United States currently has a little more than one GW of installed battery storage capacity, market predictors estimate that number could grow to more than seven GW of utility-scale and grid-connected battery storage by 2022. Indeed, Wood Mackenzie Power & Renewables' latest report on energy storage projects that energy storage deployments will grow thirteenfold over the next six years. Global Energy Storage Outlook 2019: 2018 Year in Review and Outlook to 2024.

Reducing Commercial and Industrial Power Costs with Energy Storage

Commercial and industrial operations today face increasingly steep costs for electric power, as well as increasingly frequent and costly disruptions in the grid. These are costs that eat into the bottom line and, for some businesses, can severely affect their ability to operate profitably. For many of those customers, installing a modern energy storage system can address both issues and significantly reduce a company's spending on power. By providing a pool of solar-generated power that can be brought online at times of peak usage, storage systems enable companies to escape the costliest periods of demand charges. The same system also can provide them with reliable, ready backup power, eliminating the lost revenues that result when operations are curtailed by grid outages. The toxic toll of tariffs

François Legault Pitches Quebec as "Battery of North America" in New York

Quebec Premier François Legault is in New York City this week, promoting the province's hydroelectricity as a green energy option for the bustling metropolis. In April, New York City Mayor Bill de Blasio unveiled a plan to reduce greenhouse gas emissions by importing "zero-emission Canadian hydroelectricity." He called for negotiations to begin immediately on building a supply line that would connect a hydro station south of Montreal with the Big Apple.

WoodMac: Energy Storage Will Move Toward Value Stacking as Industry Matures

The U.S. energy storage market is expected to more than double in 2019, according to a March report from Wood Mackenzie and the Energy Storage Association (ESA). Report authors forecasted a deployment of 1,681 MWh this year, up from 777 MWh in 2018. And while the deployment of storage does not appear to slow down any time soon, industry stakeholders are working on a framework to provide more monetary incentives for deployment. "One of the things that's definitely happening in the industry is value

stacking. Your batteries can not only just provide for one use-case application or for just one revenue stream, but vendors are trying to build systems where they can actually use a particular battery system for several use-case scenarios and can derive several value streams out of it," Gupta said Thursday. She specified that residential behind-the-meter (BTM) battery systems do not only provide resiliency and backup power for their respective owner, they also provide grid services. Utilities will compensate customers for allowing them to tap into their home battery system or participating in demand response programs, Gupta added.

[AEP and Honda Team Up to Find New Use for Old Electric Vehicle Batteries](#)

Honda joined forces with American Electric Power (AEP) this week on a mission to give new life to used electric vehicle (EV) batteries and to expand EV integration into the power grid. Under the agreement, Honda will take used batteries from its short-lived Fit EV to AEP, which will study how best to integrate those systems into the electric grid. For the Ohio-based utility, it is the latest investigation into the implications of large-scale electrification, as it works to identify the best way to support the emerging mobility system. What AEP learns will be shared with Honda, so they can jointly develop new technology and industry standards for vehicle grid integration. "Together with AEP, we are exploring opportunities to use the 2nd life battery to improve energy security, reduce CO2 and prepare for broad scale electrification of the transportation ecosystem," Ryan Harty, manager of Connected and Environmental Business at American Honda Motor Co., said. "Neither automakers nor utilities can address these complex technical, policy and business issues alone."

[JV to Bring Solar-Plus-Storage to LMI Communities in New York](#)

Solar developer OYA Solar of Canada and Crauderueff & Associates, a New York affordable solar developer, have partnered to originate and develop 200 solar-plus-storage community projects on the rooftops of low-income communities across New York City. The process can help community solar subscribers save up to 10 percent on the cost of electric power. The joint venture's target is to equip more than 2,500 regulated affordable housing buildings with rooftop solar arrays, which will reduce energy costs for low- and moderate-income homes. Solar energy produced at the partnership's community solar facilities will be sold at a discount to LMI households.

[Democrats Try to Extend Wind, Solar Aid They Agreed to Let Die](#)

Tax credits worth billions of dollars for the wind and solar industries are set to expire or begin phasing out next year -- part of a 2015 deal Democrats struck that ended a 40-

year-old ban on the export of crude oil. But some Democrats are seeking to extend the credits, saying President Donald Trump's tariffs on solar panels and moves to roll back Obama-era climate-related policies have changed the equation. "We had a change election, we've got new leadership in the halls of Congress and we've got an opportunity to seize," Representative Haley Stevens, a Michigan Democrat elected in November, said in an interview.

[California ISO Tests Flow Battery Tech That Could Decrease Bulk Storage Costs](#)

U.S. energy storage deployment is expected to double in 2019 and exceed 4.4 GW by 2024, according to a March report by Wood Mackenzie and the Energy Storage Association. In 2018, the U.S. installed 350.5 MW/777 MWh of storage capacity, with 47% of deployments occurring front-of-the-meter. Given the nationwide increase in renewable energy targets, utilities and wholesale market operators have ample reason to experiment with different types of storage technologies in order to determine which of them will provide the most benefits to the grid and consumers. CAISO refers to storage as a "vital strategy" to meet California's goal of 100% zero-carbon electricity by 2045. The state's current oversupply of solar power in the middle of the day and subsequent drop-off in the evening has led to a curtailment of solar. With more storage on the grid, the oversupply of solar could be captured and used later in the day, reducing the need for curtailment and increasing the grid operator's ability to balance load, CAISO said.

[North Carolina Approves Duke's First Solar + Storage Residential Microgrid](#)

Hot Springs is served by a single 10-mile transmission line that passes through mountainous terrain in the Pisgah National Forest, creating frequent, lengthy outages. Whether Duke's microgrid is the cheapest way to address the problem remains an open question, but regulators say the project could give the state and utility a better understanding of how the storage technologies can make the grid more reliable. "Though it is not clear that the Hot Springs Microgrid is the most cost effective way to address reliability and service quality issues at Hot Springs, the overall public convenience and necessity would be served by granting the certificate," the Utilities Commission concluded in their order. The system benefits from the Hot Springs Microgrid are material, "but are difficult to quantify accurately without real world experience in [Duke's] service territory," the North Carolina Utilities Commission wrote. Regulators said Duke will "gain valuable experience" by operating the microgrid, "and this experience and data collection and analysis will be beneficial in future cost-benefit analyses of projects with that proposed to include an energy storage component."

[Energy Storage Getting a Boost from Capitol Hill](#)

New legislation designed to spur investment in energy storage includes grants, tax incentives, guarantees and mandates for utilities. TAKEAWAYS •Four energy storage bills have been introduced in Congress. •It's still early days, but the developing policies are certain to impact the market. With the increased commitment to renewable resources by several states and large companies and expanding consumer demand for electric vehicles, the need for utility-scale energy storage has never been greater. In addition, prices for energy storage technology are dropping rapidly, making battery storage a viable option to replace conventional power generating resources. Legislators are taking note, and four bills have been introduced to facilitate the development of energy storage technologies by providing grants, reducing the costs of financing, providing tax incentives and requiring that utilities consider investments in energy storage resources as part of their ratemaking processes.

[Union Of Concerned Scientists Provide "Principles of Equitable Policy Design for Energy Storage"](#)

In December 2018, the Union of Concerned Scientists convened a diverse group of stakeholders to discuss the equitable deployment of energy storage. The group—which included environmental justice and grassroots organizations, policy experts, industry, labor, consumer advocates, faith groups, and renewable energy advocates—collectively developed a set of consensus principles for equitable storage deployment. The principles—which have been signed by 26 participating organizations—are intended to help state policymakers promote energy storage, address the needs of disadvantaged communities, and avoid inadvertent harm. The stakeholders grappled with the following questions:

[Valuing the Energy Resilience Contributions of Distributed Energy](#)

Reading some of Utility Dive's recent headlines is enough to make you nervous about the state of America's electricity supply. The Russians are hacking into our grid, the weather is bad and getting worse and wildfires have left two of California's three "dominant investor-owned utilities... in dire financial straits." The current threat environment requires new approaches to power system resilience — but there are valid concerns about the costs to harden the grid. At the same time, surging advanced energy markets are creating new technology options for energy resilience — even as they are re-shaping and disrupting the energy industry.

[Denmark's Ørsted Buys US Solar-Plus-Storage Specialist](#)

Ørsted has expanded its footprint in the solar-plus-storage space via the acquisition of a US developer. The firm, Denmark's self-styled largest energy group, used a recent Q1 2019 update to reveal an agreement to buy a subsidiary of US-based Coronal Energy. The statement did not name the subsidiary in question but contacted by sister title PV Tech, a source close to Ørsted identified it as HelioSage Energy.

[Environmental Groups Add to Pressure for Energy Storage Tax Boost](#)

A group of nine influential environmental groups has joined calls for energy storage to get access to the same tax credits as solar and wind. Legislation has been introduced in both houses for an investment tax credit (ITC) for energy storage. As it stands energy storage systems have to be paired with an ITC recipient such as a solar farm in order to be eligible. The 30% ITC, due to step down to 26% at the end of the year, was one of the crucial sparks for rooftop solar's breakout, especially after a \$2,000 cap was lifted in 2008.

[MTAs Two-Decade Plan For All-Electric Fleet Lacks Details, Transit Advocates Say](#)

If the MTA needs 21 years to make its bus fleet fully electric, it ought to have a detailed plan, transit advocates said Thursday. The agency has 10 electric buses, which operate out of the Grand Ave. depot in Brooklyn and the Michael J. Quill depot in Manhattan, the only depots equipped with battery charging equipment. MTA officials plan to roll out another 65 fully-electric buses by the end of the year, and another 500 over the next five years. But the Metropolitan Transportation Authority's present plan would replace around 10% of the 5,700 buses in its fleet — barely scratching the surface of the task of going all-electric by 2040.

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