July 30, 2021

Last month, Secretary of Energy Jennifer M. Granholm launched the US Department of Energy’s (DOE) Energy Earthshots Initiative to accelerate breakthroughs of more abundant, affordable, and reliable clean energy solutions within the decade. The first Energy Earthshot—"Hydrogen Shot"—seeks to reduce the cost of clean hydrogen by 80% to $1 per kilogram in one decade. This month, Secretary Granholm announced the second Earthshot initiative to reduce the cost of grid-scale, long duration energy storage by 90% within the decade. The "Long Duration Storage Shot" sets bold goals to accelerate breakthroughs that store clean electricity to make it available anytime, anywhere and support more abundant, affordable, and reliable clean energy solutions. You can read more about these exciting initiatives on the DOE website.

In closely related news, the New York State Energy Research and Development Authority (NYSERDA) recently announced a solicitation seeking proposals to stimulate and grow long duration energy storage solutions in hydrogen, electrical, mechanical, chemical, and thermal-electric energy storage innovation portfolios in New York State. NYSERDA will make up to $12.5 million in funds available to support innovative and under-utilized long duration energy storage solutions, devices, software, controls, and other complimentary technologies that decrease energy storage total hardware and installation costs, improve performance, and demonstrate integration with the power grid. Submissions must demonstrate significant statewide public benefits and quantify all energy, environmental and/or economic impacts. More information and details about applications can be found here. First round applications are due September 15, 2021.

I’d like to ask that all members of NY-BEST please take a moment to log in to your member profile of our website and update your profile. Doing so will make sure you have the opportunity to network with other members, receive member discounts on NY-BEST events and educational courses and be among the first to be informed on upcoming NY-BEST activities.

Speaking of membership…if you are not yet a member, I’d ask that you consider joining NY-BEST. Doing so will ensure you receive the many benefits of membership and join a community of leaders in the energy storage field. NY-BEST members include academic and research institutions, public utilities, technology developers, project developers, and more—across a diverse set of storage technologies spanning from hydrogen and fuel cells, to electrochemical devices, mechanical and thermal technologies. In the 11 years since our founding, NY-BEST has forged a role and emerged as the leading voice for the energy storage industry in New York State. We hope you will join us.

Best regards,

William P. Acker
UPCOMING EVENTS

NY-BEST Energy Storage Technology Conference

Join us on October 27, 2021 at the DoubleTree by Hilton Binghamton, Binghamton, NY for our Annual Technology and Innovation Conference.

SPONSORSHIP

NY-BEST is always happy to customize any sponsorship to meet your needs. Please contact Chelsea (info@ny-best.org) with questions.

Thank you to our Event Partner!

FUNDING OPPORTUNITIES

U.S Department of Energy Announces $100 Million OPEN Funding Opportunity for Transformative Clean Energy Solutions

DOE will also participate in the National Climate Task Force’s Climate Innovation Working Group announced today by the White House. The working group will coordinate federal government-wide
efforts to foster affordable, game-changing technologies that can help America achieve the President's goal of net zero economy-wide emissions by 2050, and emphasize research to bolster and build domestic clean energy supply chains and strengthen American manufacturing.

Potential applicants can visit ARPA-E’s newly launched OPEN 2021 website to access useful information and resources, including a teaming partner list for help forming new project teams and identifying potential collaborations, and webinars featuring Program Directors discussing technical areas they hope to pursue.

Revised December 2020- Charge Ready NY (PON 3923) provides $4,000 per installed electric vehicle (EV) charging port to applicants who purchase and install qualified Level 2 EV charging equipment. Equipment must be installed at New York State locations that provide public charging, workplace charging, or charging at a multi-unit dwelling (MUD). Public and private (both for-profit and not-for-profit) entities may participate in the Program. Applicants should be the owners of the EV charging equipment. Incentives are provided upon completion of the installation of EV charging equipment and the provision of appropriate documentation. Full program rules and procedures, a link to the program application, additional information about the program, and current lists of qualified EV charging equipment and network providers can be found at [nyserda.ny.gov/Charge-Ready-NY](http://nyserda.ny.gov/Charge-Ready-NY).

Applications Due- December 31, 2021 by 3:00 p.m. ET or until the program runs out of funds, whichever comes first.

For the Summary of Revisions and all Associated Documents Visit: [PON 3923 Solicitation Detail Page](http://nyserda.ny.gov/)

Have Questions or Want to Learn More?
Our staff is here to help you throughout the entire application process. Get in touch with [david.mccabe@nyserda.ny.gov](mailto:david.mccabe@nyserda.ny.gov) or [adam.ruder@nyserda.ny.gov](mailto:adam.ruder@nyserda.ny.gov).

Direct Current Fast Charger program (PON 4509) makes $11 million available to build out the state’s network of fast charging stations

Governor Andrew M. Cuomo recently announced the availability of $11 million to build out the state’s network of fast charging stations to support wider adoption of electric vehicles. The Direct Current Fast Charger program (PON 4509) will be administered by NYSERDA to scale up electric vehicle infrastructure in areas of the state where access to fast charging stations is limited, and will also prioritize improving the availability of charging infrastructure in disadvantaged communities. More information on PON 4509 can be found on NYSERDA’s website here.

Phase I Release 1 Funding Opportunity Announcement (DE-FOA-0002359) for the SBIR and STTR Programs

The Department of Energy (DOE) has issued its FY 2021 Phase I Release 1 Funding Opportunity Announcement (DE-FOA-0002359) for the SBIR and STTR Programs. Qualified small businesses with strong research capabilities in science or engineering in any of the research areas sought in the announcement are encouraged to apply.

The following DOE program offices are participating in this Funding Opportunity Announcement:

- Advanced Scientific Computing Research
- Basic Energy Sciences
Biological and Environmental Research
Nuclear Physics

**Downloading the Funding Opportunity Announcement (FOA) and Topics**

- The FOA (DE-FOA-0002359) is available at [Grants.gov](https://www.grants.gov/web/grants/search-grants.html). Download the FOA Instructions and the Application Package by keying in DE-FOA-0002359 under FUNDING OPPORTUNITY NUMBER.

The Topics for Release 1 are available at [https://science.osti.gov/sbir/Funding-Opportunities](https://science.osti.gov/sbir/Funding-Opportunities).

**STC Solar + Storage RFP**

Solar One has received U.S. Department of Housing and Urban Development (HUD) Community Stewart Tenants Corp, a New York cooperative housing corporation, is a 21-story multifamily property located at 70 East 10th Street, New York, NY. Stewart Tenants Corp is seeking bids for the installation of a resilient solar power (PV) and energy storage (ESS) system.

**AFFORDABLE SOLAR AND STORAGE PREDEVELOPMENT AND TECHNICAL ASSISTANCE**

Affordable Solar Predevelopment and Technical Assistance will provide up to a total of $3.6 million to address barriers to solar installations serving low-to-moderate income (LMI) households living in rental housing, multifamily buildings, or other households not served by traditional onsite residential solar. Individual awards will not exceed $200,000. Funding to proposals through this solicitation will offset costs for predevelopment and technical assistance work needed to implement solar installations for multifamily affordable housing and/or shared solar (Community Distributed Generation) installations that benefit LMI households.

Applications Due: December 31, 2024 by 3:00 p.m. ET

**CURRENT NEWS**

**NY-BEST Members**

*Clean Energy Hub to Replace Former Fossil Fuel Plant in Astoria*

State energy regulators gave Con Edison and partner 174 Power Global approval last week to place a large battery system at the site of a former fossil fuel plant near the East River in Astoria.

*Sonnen Launches SonnenCommunity Solar Battery Program for N.Y. Residents*

The clean power company sonnen is participating in a limited New York state program to provide eco-friendly battery power systems to 200 residents.

*Battery Storage System Proposed Near Indian Point Plant*

Jupiter Power, founded in 2017 by clean energy entrepreneurs and based in Texas, recently made presentations on its plans to the Buchanan Board of Trustees and Cortlandt Town Board.

*Tesla reports a big jump in profit*

The company said it made $1.1 billion, or $1.02 a share, in the second quarter, up from $104 million in the same period a year earlier. It reported revenue of $12 billion, up from $6 billion.

*Li-Cycle to recycle batteries for Helbiz*
The Canadian recycling company Li-Cycle and the Italian-American micromobility provider Helbiz announce their intention to jointly develop recycling solutions for spent lithium-ion batteries from e-scooters and e-bikes.

**New York State pledges US$12.5m to long-duration storage and investigates green hydrogen’s potential**

New York Governor Andrew Cuomo has said the state is “exploring every resource available as a potential tool to address climate change,” as funding was announced for long-duration energy storage technologies along with investigation on the role of green hydrogen in decarbonisation.

**Exploring the Electrochemistry of Water-Based Batteries**

Researchers at Stony Brook University and the U.S. Department of Energy’s (DOE) Brookhaven National Laboratory have identified the primary reaction mechanism that occurs in a rechargeable, water-based battery made from zinc and manganese oxide.

**Unique Electric Solutions (UES) Partners With the Clean Energy Business Incubator Program (CEBIP) to Develop EV Energy Storage System Assembly in New York**

The partnership will focus on rapid, high quality assembly of production complete high voltage battery packs and ultra-capacitor modules used within the Energy Storage Systems of medium and heavy duty all-electric and hybrid trucks and buses.

**Urban Electric Power’s long-term storage solution takes battery storage back to the basics**

Using a modified version of the same technology used in AA batteries, Urban Electric Power was accepted into EPRI’s Incubatenergy Labs program to prove their technology’s worth in front of some of the nation’s top utilities.

**Musk: Supply chain issues creating ‘significant unmet demand’ for Tesla Megapack storage battery**

Deployments of both the energy storage and solar energy products more than tripled compared to Q2 in 2020.

**National Grid JV Emerald gains $150M credit for future solar, wind & energy storage investment**

The new credit will allow National Grid’s EEV to fund construction of solar, battery storage and wind projects currently under development by National Grid Renewables, the utility holding company’s competitive renewable energy arm.

**Beyond NY-BEST**

**Why Batteries Are the Key to Biden’s Green Dreams**

The vision of a clean-energy future — where wind turbines and solar panels are knit into a new kind of power grid — hinges on a humble savior: the battery.

**Almost US$10 billion raised by battery storage firms in first six months of 2021**

Companies in the battery storage industry raised US$9.6 billion in corporate funding during H1 2021, with European manufacturing startup Northvolt once again the biggest single recipient of venture capital (VC) investment.

**Energy storage aggregation unlocks benefits for homeowners, grid operators, and installers**

Companies like Sunrun are implementing grid services using smart batteries to unlock benefits for the residential end-user and the grid at large. Recent research from New Zealand suggests these benefits could be dramatic.

**Energy Department Targets Vastly Cheaper Batteries to Clean Up the Grid**

The Biden administration’s push for more wind and solar power poses big challenges. New types of energy storage could help — but only if they get much cheaper.
Bring On More Solar And Wind — But Have Backup Power And Energy Storage

Everyone already knows that wind and solar energy are intermittent fuels. They must be firmed up by energy storage or fast-starting generation that ideally is also carbon-free.

DOE, storage provider Highview Power argue long-duration storage should be re-evaluated

Governments and utilities need to rethink the way they evaluate long-duration energy storage projects to make them more economical, officials from the Department of Energy (DOE) and energy storage companies said at a panel on Wednesday.

Ford patents charging electric cars by towing them

A Ford patent filing proposes charging electric cars by flat-towing them behind another vehicle.

Sandia designs better batteries for grid-scale energy storage

Researchers at Sandia National Laboratories have designed a new class of molten sodium batteries for grid-scale energy storage.

EV startup Rivian announces $2.5 bln funding round led by Amazon, Ford

The announcement came the day after the California-based company said it was exploring building a second U.S. assembly plant. Reuters, citing unnamed sources, reported on Thursday that Rivian's planned plant, dubbed "Project Tera," will include battery cell production.

Form Energy's $20/kWh, 100-hour iron-air battery could be a 'substantial breakthrough'

The technology relies on thousands of small iron pellets which rust when exposed to oxygen, then revert back to iron when oxygen is removed. That process can power a battery that Form claims can deliver electricity for 100 hours.

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