New York’s landmark Climate Leadership and Community Protection Act, enacted in 2019, requires New York to reduce economy-wide GHG emissions 40 percent by 2030 and no less than 85 percent by 2050 from 1990 levels. Achieving these targets require leadership and action across every sector of the State’s economy—from the electricity grid and the built environment to agriculture and transportation. Next week on Tuesday, February 23, NY-BEST will host a webinar "Reducing Greenhouse Gas Emissions in New York’s Transportation Sector" to highlight the State’s on-going efforts including the activities of the Climate Action Council Transportation Advisory Panel and the State’s development of a Clean Transportation Roadmap.

I hope you will join NY-BEST for this one-hour webinar featuring two New York State leaders—Jared Snyder, Deputy Commissioner, NYS Department of Environmental Conservation and Adam Ruder, Assistant Director, Clean Transportation, NYSERDA—who are spearheading efforts to reduce greenhouse gas (GHG) emissions in the state’s transportation sector. Attendees will obtain a comprehensive understanding of clean transportation initiatives underway and/or being considered by the State, as well as ways to participate in these efforts going forward. The webinar is free for NY-BEST members. Please plan to join us!

For the past several months, I’ve had the honor to serve as a member of the State’s CLCPA Power Generation Advisory Panel. This group has been addressing how to implement CLCPA goals, including the need for a more significant role for energy storage—both existing storage technology and new longer duration technology. A recent study of the State’s power grid identified need for 15GW of storage to support CLCPA goals, and we have prepared recommendations to: increase energy storage funding and targets; remove barriers to market participation; and to provide a means of accelerating the development and deployment of long duration storage technology. The Power Generation Advisory Panel recommendations were reviewed at public meeting last Friday and will be finalized over the next month. You can learn more about the CLCPA Advisory Panels and access meeting materials on the Advisory Panel website.

Best regards,
William P. Acker

Executive Director

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MEMBER SPOTLIGHT

Cornell University, is the federal land-grant institution of New York State, a private endowed university, a member of the Ivy League, and a partner of the State University of New York. Cornell comprises 14 colleges and schools: seven undergraduate units and four graduate and professional units in Ithaca, two medical graduate and professional units in New York City, and one in Doha, Qatar. As a leading research institution, Cornell’s involvement in renewable energy and energy storage technology is extensive and significant.

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FUNDING OPPORTUNITIES

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

In support of the Biden Administration’s climate innovation agenda, the U.S. Department of Energy (DOE) today announced up to $100 million in funding for transformative clean energy technology research and development via ARPA-E’s OPEN 2021 funding opportunity. The first of billions of dollars of DOE R&D opportunities to be announced this year, this funding will help identify cutting-edge, disruptive clean energy technologies to address the climate crisis. Concept papers are due by 9:30 a.m. ET on April 6.

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.

**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.
ON-THE-JOB TRAINING FOR ENERGY EFFICIENCY AND CLEAN TECHNOLOGY

NYSERDA’s On-the-Job Training (OJT) for Energy Efficiency and Clean Technology program provides wage subsidies to eligible businesses to reduce the financial risk of hiring and training new workers, while developing job skills for new workers in energy efficiency and clean technology businesses.

NYSERDA is working closely with the New York State Department of Labor (NYSDOL) to deliver this OJT program. NYSDOL will assist eligible businesses with developing OJT training plans as well as assessing necessary skills and available workers that match those skills. Incentives will be provided to businesses that hire workers for OJT enabling new workers to obtain clean energy field experience that cannot be gained by classroom training alone.

All incentives, maximum funding amounts (i.e., caps), and COVID-19 specific provisions are subject to change on 12/31/20.

Applications Accepted Through:

October 31, 2023 by 3:00 p.m. ET
For the Summary of Revisions and all Associated Documents Visit:
PON 3982 Solicitation Detail Page

More Funding Opportunities Online

CURRENT NEWS

NY-BEST Members

Key Capture Energy gets US$93 million debt financing deal for 230MW of Texas battery storage

US utility-scale battery energy storage project developer (and NY-BEST member) Key Capture Energy has secured US$93.3 million debt financing for a portfolio of six projects in Texas.

Stem, Inc. Brings Smart Energy Storage to Electric Cooperative Projects with Today’s Power, Inc.

The partnership will enable TPI’s customers and the large number of electric cooperatives that are adopting solar and battery storage to take advantage of the benefits of smart energy storage systems.

At New York City’s biggest power plant, a switch to clean energy will help a neighborhood breathe easier
Aging, pollution-spilling equipment clocks its final days at the Ravenswood Generating Station.

**Magnis Energy (ASX:MNS) looks to bank A$34 million for New York battery plant**

Magnis Energy (MNS) has tapped institutional, professional and sophisticated investors for $34 million in an oversubscribed placement. Proceeds are set to go towards fast-tracking development at the iM3NY facility lithium-ion battery plant in New York.

**Beyond NY-BEST**

**New FERC Chair’s Focus: Environmental Justice and Climate Change Impacts**

Glick’s priorities include fair treatment of new technologies and state policies, as well as transmission and interconnection reforms.

**White House launches clean energy effort, $100 million in technology funding**

The Biden administration on Thursday announced the U.S. Department of Energy will offer $100 million in funding to support low-carbon energy technologies and create a working group to aid their development and sale.

**Nel to slash cost of electrolysers by 75%, with green hydrogen at same price as fossil H2 by 2025**

Norwegian electrolyser maker Nel has unveiled plans to cut the cost of its electrolysers by about 75% in a new 2GW factory — set to be the world’s largest — and to reduce the price of green hydrogen to $1.50 per kg by 2025.

**Biden’s push for electric vehicles puts US in international race to electrify**

Since President Joe Biden jump-started the conversation around electric vehicles in the early days of his administration, American car companies have announced plans to follow suit in making electric vehicle adoption a priority in the United States.

**When the Electric Car Is King, Less Energy Is More**

And here’s a surprising finding: Electrifying U.S. vehicles wipes out the equivalent of our entire current power demand.

**World’s 1st Zero-Emission Tanker Project Will Use Corvus Energy Storage System**

Corvus Energy was selected to provide an energy storage system (ESS) to Kawasaki Heavy Industries for the zero-emissions electric e5 tanker it is building, the world’s first zero-emissions tanker.

**Europe overtakes China in EV sales growth in 2020**
Sales of plug-in passenger car in Europe in 2020 rose 137% year on year to almost 1.4 million in a "disturbed" auto market that was down 20% year on year overall, EV-volumes said, citing preliminary data. In China, EV sales rose 12% last year to 1.34 million vehicles.

**Corporate Investment In Battery Tech Has Exploded**

According to a recent report by global communications, research, and consulting firm focusing on cleantech, Mercom Capital Group, corporate funding and M&A's for the battery storage, smart grid, and energy efficiency sectors more than doubled in 2020 to $8.1 billion compared to $3.8 billion in the previous year.

**Bidenomics 101: Inside the White House’s Plans to Bring Jobs Back**

Anyone searching for an economic road map to the Biden presidency might find hints of one in a 40-page research paper written, appropriately enough, by the United Automobile Workers union. The document, originally published in 2018 and titled “Taking the High Road: Strategies for a Fair E.V. Future,” argued that even in the face of foreign competition, the American automobile industry could continue to provide well-paying manufacturing jobs — but only if the government invested huge sums in electric vehicles.

**Building domestic supply chain for battery storage could be a priority for lawmakers, Senate aides say**

Promoting a domestic supply chain for energy storage technologies, particularly batteries, could be an area of bipartisan focus for the 117th Congress and a big theme within the Senate Committee on Energy and Natural Resources, aides say.

**Powin Energy Raises $100M to Compete for Leadership in Grid Storage Market**

The startup bootstrapped itself into the upper echelons of the storage market. The cash infusion comes as that market grows like never before.

**The $2.1 Billion Case for Building a Federal EV Fleet**

The U.S. government’s garage is full of tired, old gas guzzlers costing $1 per mile, mostly in fuel and maintenance.

**Ford CEO confident in electric-vehicle strategy, says automaker won’t ‘cede the future to anyone’**

“We’re not going to cede the future to anyone” when it comes to electric vehicles. Ford CEO Jim Farley told CNBC on Friday. Ford announced a day earlier it’s boosting its EV investment to $22 billion through 2025.

**Funding For Battery Technology Companies Exploded In 2020**

Battery storage, smart grid and energy efficiency companies brought in $8.1 billion in corporate funding in 2020, compared to $3.8 billion in 2019. Corporate funding in battery storage was up 136% with $6.6 billion in 54 deals in 2020.
General Motors Is Counting on Your Loving Electric Cars

General Motors’ announcement last week that it will stop making gas-powered cars, trucks and sport utility vehicles by 2035 and become carbon neutral by 2040 is even bolder than it sounds: The repercussions will ripple broadly across the economy, accelerating the transition to a broader electric future powered by renewable energy.

Beyond Declining Battery Prices: 6 Ways to Evaluate Energy Storage in 2021

Balance of systems, software, supply chain constraints, and reliability and performance guarantees all weigh on total costs.