



## NYSERDA Innovation Perspective

*“Building out our nation’s grid infrastructure at the lowest cost over the next century will be very different from how we did it before.*

*Our advancement toward a zero emissions grid will require the deployment of new technologies, processes and methods of moving electricity. Things like sensing and communications technologies which increase situational awareness on the grid, as well as the growing development of high performance computational models that enable real time planning and monitoring. There are very exciting opportunities where grid innovation plays a role in enabling a cleaner, more affordable and more reliable grid for all New Yorkers.”*

— **Hafiz Bello**, Assistant Director  
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## Realizing a Dynamically Managed, High-Performing, Smart Electric Grid

### Creating a Cleaner, More Efficient Grid with Improved Reliability and Resiliency

#### Investment Thesis

A modern grid will increase system-wide efficiency, reduce customer outages and integrate clean energy resources. To accelerate the modernization of the grid, NYSERDA is taking a national leadership position by investing in advanced sensing, communications, and control technologies to enable a high-performing electric grid, and technologies to incorporate clean energy resources.

#### NYSERDA Experience

The Grid Modernization program invests in studies, product development and technology demonstrations to achieve New York State’s Climate Act goals. The program support so far has helped 60 innovative companies to optimize, validate, standardize, and replicate their solutions for widespread deployment in the market.

NYSERDA has key relationships with the Department of Public Service, New York Power Authority, New York’s utilities, National Labs, Electric Power Research Institute, and various grid vendors and clean energy stakeholders. NYSERDA utilizes these relationships for technology de-risking, stakeholder coordination, technology transfer, and product development support.

#### Areas of Interest

**High Performing Electric Grid:** Develop enhanced grid visualization (sensing, communications, diagnostics, and controls), and advanced materials that accelerate the realization of a digitally enhanced and dynamically managed high-performing electric grid.

**Future Proofing the Grid:** Identify, define, and ultimately bridge gaps between the performance of today’s grid and the performance needed to achieve New York State’s Climate Act goals.

**Grid Flexibility and Resilience:** Increase the usage of DER and other grid edge technologies to promote efficient utilization of the electric grid and increase the ability of the grid to be prepared for, withstand, adapt, and quickly recover from disruptions from natural, and man-made disasters.

**When you innovate in New York, you get the world.**

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