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, as well as technologies to incorporate clean energy resources.

NYSERDA EXPERIENCE

The Smart Grid Program invested $38M into research, product development and technology demonstration in New York that has yielded $238 million of follow-on investments. Program support has so far helped seven innovative products reach and pursue commercialization.

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, and utilizes these relationships for technology de-risking, stakeholder coordination, technology transfer, and product development support.

AREAS OF INTEREST

High Performing Grids: Develop enhanced grid visualization (sensing, communications, diagnostics and control), planning and operational processes and advanced materials for a high-performing electric grid.

DER Integration: Reduce technical barriers, cost, burden and time to interconnect clean energy resources while also enabling them to be fully integrated into the electric grid to provide the greatest possible benefit.

The program aims to reduce electric delivery losses and enable high penetration of clean energy resources, resulting in over 2 million tons of GHG reduction annually..

NYSERDA INNOVATION PERSPECTIVE

"The next one hundred years for our nation's grid infrastructure will be very different from the first one hundred years. Sensing and communications have become inexpensive and robust enough for wide deployment on the grid while computational power has grown exponentially. It is very exciting to have real-time information about grid conditions available like never before and that information enables a cleaner, more reliable, and safer grid for all New Yorkers." -- **David Crudele, Program Manager** (Contact: dave.crudele@nyserda.ny.gov)

Learn More: nyserda.ny.gov/innovation

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