Launch Groundbreaking Grid Research @ AGILe

The Advanced Grid Innovation Laboratory for Energy (AGILe) is a world-class power systems laboratory and testing facility for developing new technologies and demonstrating future-thinking electric power grid projects.

Electric utilities, governmental entities, academic institutions, high-tech businesses and others, from the U.S. and around the world, can use AGILe for their research.

Its wide range of research, development and testing tools are cost-effective and help researchers quickly understand the impact of changes to the grid.

Explore

- Automation in transmission & distribution systems
- Cybersecurity testing, events
- Power electronics controllers
- Renewable energy integration, distribution & storage
- Sensors, communications networks
- Substation protection automation & control

Real-Time Testing

AGILe performs real-time simulations of New York State’s electric grid and other power systems with hardware/software-in-the-loop capabilities and other modeling and simulation techniques. AGILe can analyze grid events and phenomena over time, study the incorporation of intermittent resources, and improve reliability and controllability of the bulk power grid.

Purpose and Partners

AGILe supports New York State’s Climate Leadership and Community Protection Act—one of the most ambitious climate laws in the world. It requires New York State to reduce economy-wide greenhouse gas emissions 40 percent by 2030 and at least 85 percent by 2050 from 1990 levels. These actions will transform New York’s economy, create jobs, and stimulate industry and innovation.

AGILe is a unique partnership of all the state’s public electric entities and investor-owned electric utilities in collaboration with Electric Power Research Institute and other electric power industry organizations.

Continued on reverse
Location

Now:
Established in 2017, and continually updated with state-of-the-art technology, AGILe is located in White Plains, just outside the City of New York. It is operated by the New York Power Authority (NYPA), the largest state electric utility in the nation.

Vision for the Future:
Design concept under development for an expanded, standalone facility with a new collaborative business operating model.

Future Direction—AGILEe Phase II

• Larger, stand-alone lab facility meeting sustainable standards
• More lab equipment and expanded capabilities
• Extended opportunities for collaboration available

For more info:
Lab & Testing Contact:
Hossein Hooshyar
Director, AGILe Lab
hossein.hooshyar@nypa.gov
914-287-3857

Additional Information: AGILe@nypa.gov | nypa.gov/agile