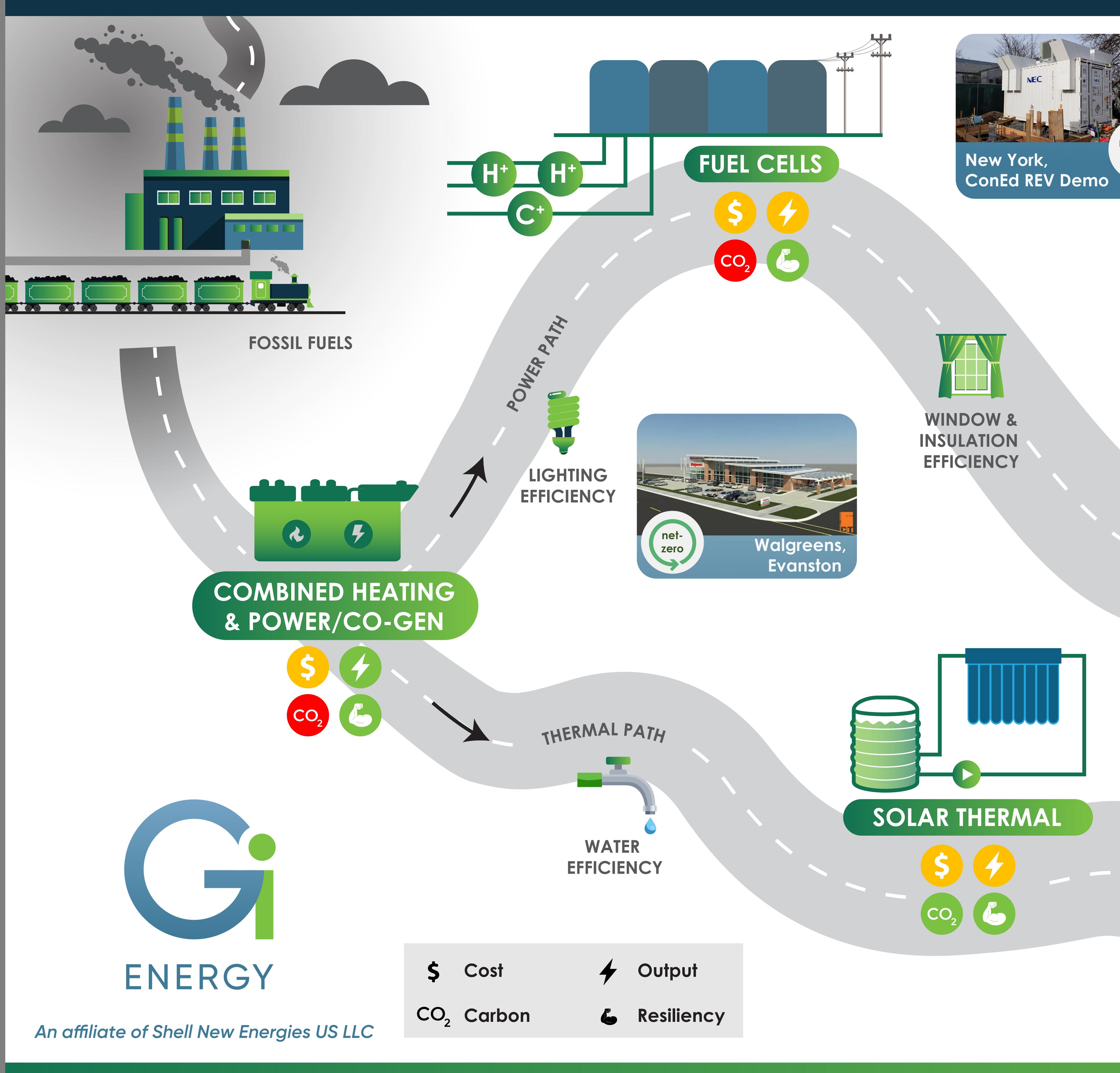
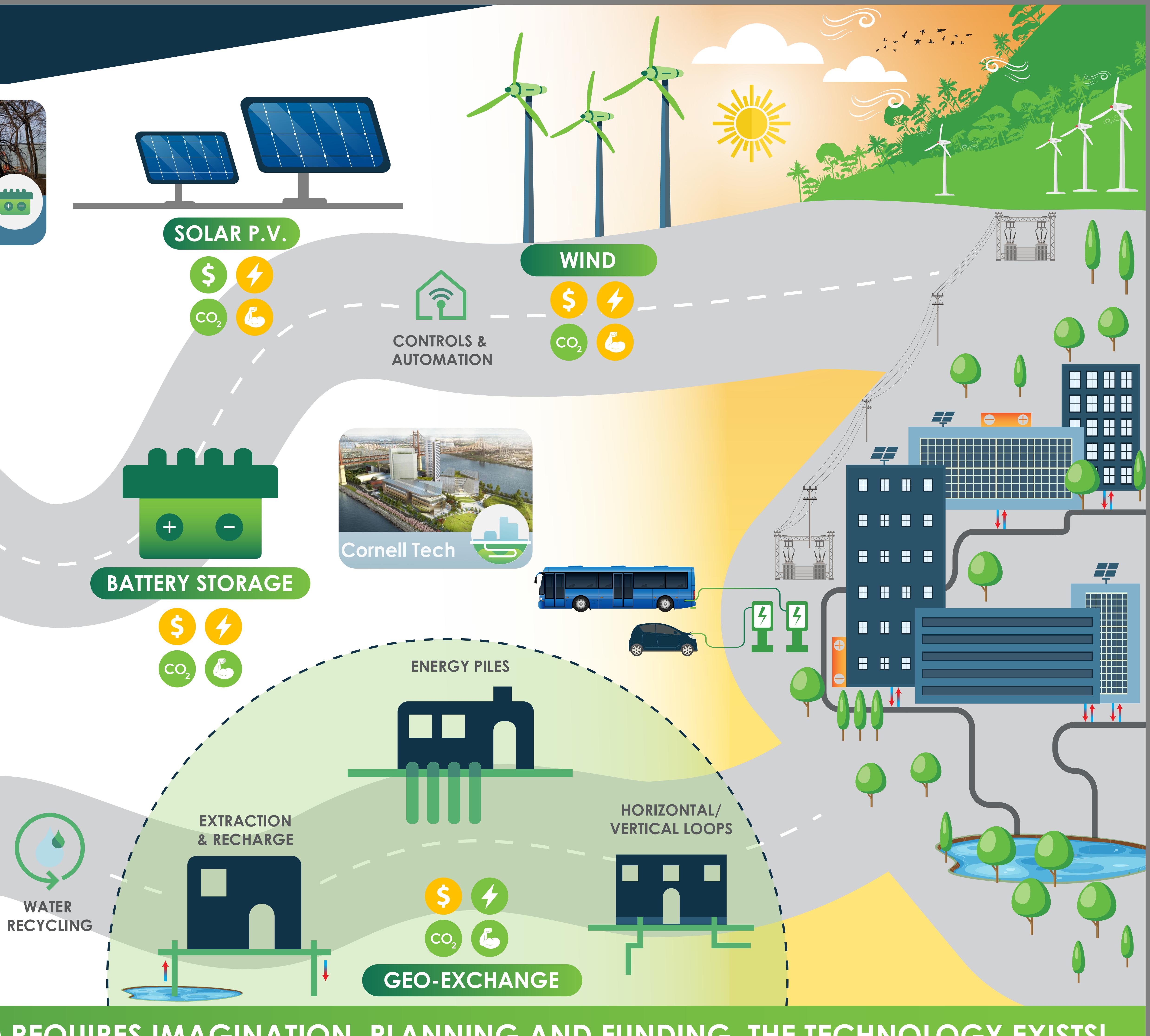
THE ROAD TO ABSOLUTE ZERO



OUR OBJECTIVE IS ZERO CARBON, NOT NET-ZERO. ACHIEVING ZERO REQUIRES IMAGINATION, PLANNING AND FUNDING. THE TECHNOLOGY EXISTS!

WATER





Walgreens Net-Zero Store







GIE integrated a GSHP system with natural ventilation, daylighting, solar PV and wind turbine



Net-zero energy: during normal operations, store requires no energy from electricity grid

Further Information



First 100% CO2 refrigeration integrated with geothermal in US



LEED Platinum and Green Chill Platinum ratings





Walgreens approached us to discuss reducing the environmental impact of their business by investment in sustainable energy solutions.

GI Energy designed a net-zero store, coordinated all HVAC trades and optimized entire construction process.

Purpose of Project

Key objectives were to decrease the store's reliance on utility companies and the power grid, and not to increase longterm maintenance costs for the site.

Contact us if you have any questions on this project:



info@gienergyus.com



www.gienergyus.com



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(312) 894-4646



Cornell Tech Campus



Cornell Tech Campus, NYC





80 boreholes spaced 20 ft. apart to a **depth of** 400 ft.



Provides the majority of the building's heating and cooling load



Seamless integration with General Contractor was required

Technical Information

This system, the first of its kind in the United States, uses a unique annulus system to increase the efficiency of the ground loop. It takes advantage of river water penetration through the local bedrock to accelerate thermal dissipation.



GI Energy provided engineering, procurement and construction for a Ground Source Heat Pump system for the Bloomberg Center on Cornell's new STEM campus on Roosevelt Island, NY.

Project Infomation

The Bloomberg Center is one of the largest aspiring netzero buildings in the US. When completed in 2043, the entire campus will house 2.500 residents.

Contact us if you have any questions on this project:



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(415) 528-1036



Con Edison Battery Storage Demo, New York, NY



Financial Information



When Con Edison does not call for the systems, GI Energy will participate in available NYISO wholesale markets, sharing proceeds with Con Edison



This model may allow utilities to procure battery storage services at a lower cost than other structures



The systems are owned and financed by Shell

Technical Information



Four 1 MW / 1 MWh FTM batteries



Con Edison will be able to call for the systems' discharge during their networks critical peak times



Increased local grid reliability through the deployment of the batteries maximizes value to the utility





GI Energy is working with **Con Edison** to demonstrate a novel front-of-the-meter (FTM) battery storage business model under the Reforming the Energy Vision (REV) process. The 5-year demonstration project shows how customersited, third-party owned batteries provide benefits to both the utility (through installation in constrained network areas) and customers (through regular lease payments).

Services Provided

- Site acquisition
- Permitting
- Engineering, procurement
 - & construction
- Financing
- Energy market services
- Operations & maintenance

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