THE ROAD TO ABSOLUTE ZERO

OUR OBJECTIVE IS ZERO CARBON, NOT NET-ZERO. ACHIEVING ZERO REQUIRES IMAGINATION, PLANNING AND FUNDING. THE TECHNOLOGY EXISTS!
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 long-term maintenance costs for the site.
The Bloomberg Center is one of the largest aspiring net-zero buildings in the US. When completed in 2043, the entire campus will house 2,500 residents.

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.

Features

- **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.

Project Information

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Contact us if you have any questions on this project:

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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 customer-sited, third-party owned batteries provide benefits to both the utility (through installation in constrained network areas) and customers (through regular lease payments).

**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

**Services Provided**

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

**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