



Energy

Ground Sourced Heat Pump

Client: NYSERDA

Ongoing

COR Development is a full-service real estate development and management company that designs and builds office, retail, commercial, industrial, high-tech facilities, mixed-use residential apartments, and affordable housing. COR is focused on transforming the Syracuse (NY) Inner Harbor from an abandoned historical industrial site into a vibrant waterfront neighborhood.

NYSERDA's Cleaner, Greener Communities program awarded COR a Phase II implementation grant for a ground source heat pump project at Iron Pier Apartments.

This innovative project includes a geothermal heat pump system with a common loop that will provide heating and cooling to 115 apartments, common areas, and commercial spaces in two adjacent 92,000 square foot buildings. The project includes 88 geothermal wells drilled 500 feet into the ground. The wells will transfer thermal energy between the ground and the buildings, allowing for the heating and cooling of the buildings at much lower cost than conventional HVAC systems.

Frontier Energy supports the project with energy and monitoring services and meets NYSERDA program requirements. The Frontier team also designed and operates a data dashboard available from kiosks in the buildings and online at cloud.cdhenery.com/ironpier/ so that residents, visitors, and other interested people can see GSHP's displayed in the lobby of the two buildings that shows real-time performance data to display key performance data.



Transportation



Buildings



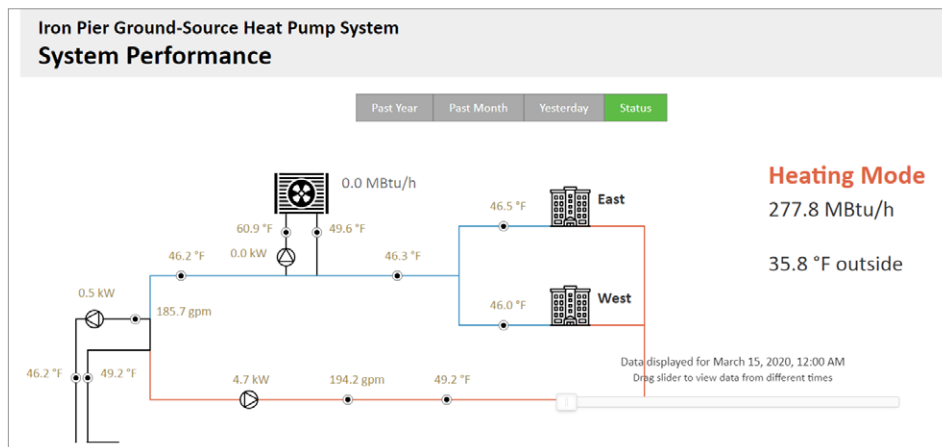
Industrial



Agriculture



Sequestration



FRONTIER ENERGY:

- Commissioned the geothermal system
- Produced a Project Benefits Metrics report
- Developed and implemented the geothermal monitoring and verification plan
- Collects data and reports system performance



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