

**Town of Brighton District  
Geothermal System  
Category A Site-Specific  
Scoping Study  
NYSERDA PON 4614**

Monroe County

Technical Lead:  
Labella Associates, DPC



**The Site & Beneficiaries**

LaBella Associates, The GreyEdge Group, and Aztech Geothermal, partnering with HeatSmart Tompkins and The Climate Solutions Accelerator of the Genesee-Finger Lakes Region, are undertaking a geothermal system scoping study for a mixed-use suburban area south of Rochester, NY. The proposed site is a complex that is home to the Bill Gray's Iceplex, the Monroe Community College Brighton Campus, the Metro Industrial Park, River View Apartments, and several independently owned mixed-use facilities. The proposed site includes 137 buildings with diverse cooling and heating load profiles and with a variety of uses. The proposed district system can directly improve the surrounding underserved community located directly adjacent to the system and can expand outward in the future.

**Potential Thermal Resource**

Ambient-loop ground source heat pumps will be the primary technology for thermal energy production. Supplemental thermal production and storage using water-source, solar thermal, and phase change materials will be evaluated, as well as solar and hydropower electricity production and storage in a networked microgrid. The solution needs to be resilient, carbon neutral, and affordable for the broad range of income levels within the community, with an additional goal to allow NYSEG to decommission gas service to the community.

**Potential Configuration**

A central ambient temperature loop can be included in a phased approach along East Henrietta Road to serve all five sections of the project site. Additionally, there is ample room for vertical borefields and co-location of other renewable energy resources. There are two lakes and wastewater main piping presenting additional thermal resources if necessary. For additional renewable energy resources there are numerous parking areas and rooftops that can host on-site PV and battery storage systems to improve the district system's outage resiliency. This project can serve as a replicable example of how to transform a community with mostly fossil fuels into a Sustainable Renewable Energy Community by harvesting multiple on-site renewable energy sources.



Square Feet by Facility Type

