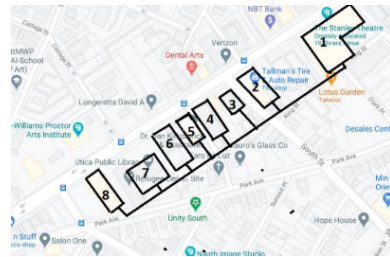


City of Utica  
Category B: Design  
NYSERDA PON 4614

Oneida County

Technical Lead: Joseph  
Technology Corporation Inc.



### The Site & Beneficiaries

**The design study proposed by the City of Utica the feasibility of a community-style heat pump system (CHPS) for a cluster of existing buildings in the city.** The focus is regional economic revitalization efforts, mostly in the Bagg's Square area. The proposed project is in a disadvantaged community, with many of the city's residents living below poverty level and the local weather typically results in high heating bills. Alleviating some cost to residents, the proposed new system aims to provide a 30-50% reduction in energy consumption for potential customers. Bagg's Square Association-Economic Development Company of Utica Downtown and Mohawk Valley Chamber of Commerce - Economic and Business Development organization of city of Utica are supporting the development of the proposed system.

### Potential Thermal Resources

The principal system components consist of vertical geothermal boreholes to be drilled in a nearby parking lot, heat pumps in a central plant, and an underground piping network that will distribute heat to the connected buildings/customers.

### Potential Configuration

The networked system will serve 8 large buildings with a total of 235,000 square feet of conditioned space. The existing building internal infrastructure will be modified and retrofitted to improve thermal efficiency and compatibility with the lower temperature heating distribution network. Building improvements include sealing from air leakage, insulating, and installing energy management systems that will minimize the energy consumed to operate the system.