

**Albany Airport
Category B Design Study
NYSERDA PON 4614**

Albany County

Technical Lead: CHA
Consulting



The Site & Beneficiaries

Albany International Airport serves as the major air travel center for Northeastern New York, Western New England, and Southern Vermont. Within the airport buildings, there is an existing central heating and cooling system in place. A project that aims for 100% decarbonization of key buildings has initiated, incorporating 300,000 square feet. A Thermal Energy Network will be designed to supply low-carbon heating to Albany International Airport.

Potential Thermal Resources

Ground heat exchangers with vertical geothermal bore fields located beneath identified parking lots will serve as the primary heat source. The use of the Glycol Recovery Plant (GRP) as a secondary heat source offers an approach to supplementing the geothermal energy supply. Geothermal well fields will be the primary heat source and sink for a heat pump chiller in the terminal, extending to other buildings.

Potential Configuration

This project is to be completed in one phase, connecting bore fields to the terminal. The design study will develop a shovel ready design of this integration as a primary heat source and secondary heat source for Albany International Airport buildings. Study consists of the Main Terminal (220,000 sq.ft.), Administration Building (21,500 sq.ft.), Hangar 1 (31,000 sq.ft.), and the Fire Department (27,500 sq.ft.).