

# Success Story: St. Vincent Health Sciences Center

Customer  
**St. John's University**

Location  
**Queens, NY**

Project  
**Commercial Geothermal**

## Overview

St. John's University in Queens, NY, installed one of the city's first large-scale geothermal heat pump systems at the site of its new St. Vincent Health Sciences Center. This 70,000 sq. ft. building is heated and cooled by a 200-ton heat pump chiller tied to a 66-borehole geothermal heat exchanger drilled 499 feet below the university's Great Lawn. Conditioned air is distributed through the building using a system of chilled beams and fan coil units.

The geothermal system offers a variety of benefits, including:

- Increased student and faculty comfort with reliable, year-round heating and cooling
- Lowered operating costs when combined with energy-efficient envelope upgrades
- Reduced carbon emissions, helping the university stay ahead of statewide sustainability goals and emissions regulations

## Testimonial

**“In the end, we wanted to be good stewards of the environment. I highly recommend geothermal to other universities that are considering ways to reduce their carbon footprint.”**

—Tobias Bisharat, Project Director, The Office of Design & Construction

## Get Started

[conEd.com/CommercialGeothermal](http://conEd.com/CommercialGeothermal) | [Geothermal@conEd.com](mailto:Geothermal@conEd.com)

## Project Snapshot

### Scope

Conditioned Area:	Boreholes:
<b>70,000 Sq. Ft.</b>	<b>66 Holes at 499 Ft.</b>

### Economics

Total Project Cost:	Con Edison Incentive:	Customer Cost:
<b>\$11.5M</b>	<b>\$1.5M</b>	<b>\$10M</b>

### Energy and Climate Impact

Energy Savings:	Emissions Reduction:
<b>3,700 MMBtu/Year</b>	<b>200 tCO2e/Year</b>

### Team

Architect: **Cannon Design**    Driller: **Island Geo Drillers**  
 Construction: **Shawmut Design and Construction**  
 Mechanical, Engineering, Plumbing: **Ainsworth**



Commercial & Multifamily Geothermal

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## A Look Inside



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