



NY - G E O 2024

APRIL 8-9 | ALBANY NY



Opportunity Presented by Municipal & Private Thermal Energy Networks

Moderator: Donovan Gordon / [NYSERDA](#)

Panel: Sue Dougherty / [NYSERDA](#)
John Tesh / [CHA Consulting](#)
Dan Sergison / [Salas O'Brien](#)
Tim Banach / [Endurant Energy](#)

BUILDING ELECTRIFICATION - 4:00 PM

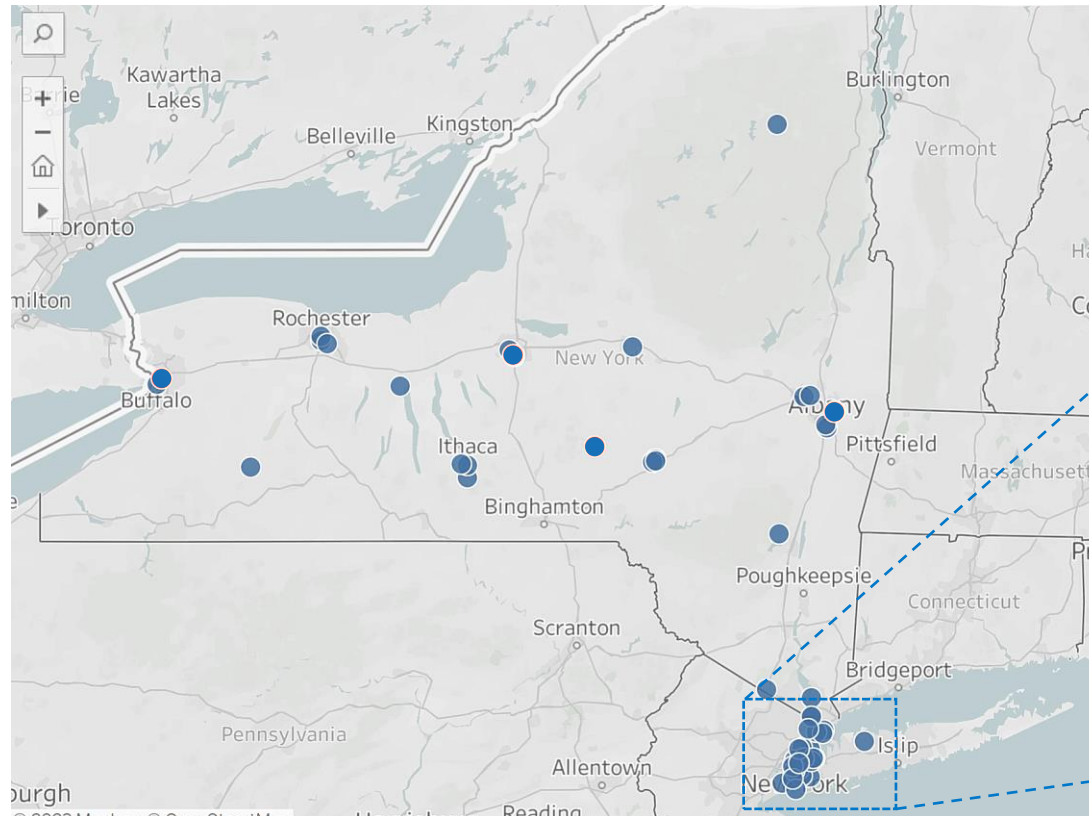
NYSERDA Support for TENs

Community Heat Pump Systems Program (PON 4614)

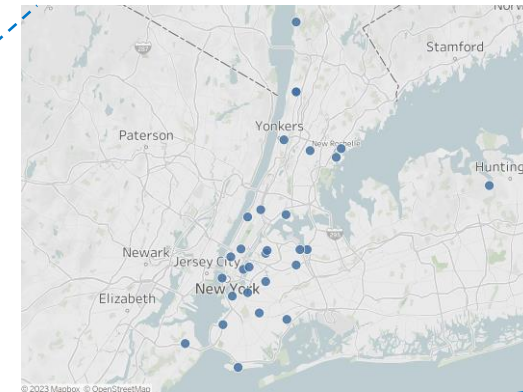
10 Rounds (Q1 2021 – Q4 2023)

- > Over 50 project sites
 - 48 Category A: Feasibility
 - 12 Category B: Design
 - 6 Category C: Construction
- > Projects represent wide variety of locations, sizes, configurations, technologies, business models

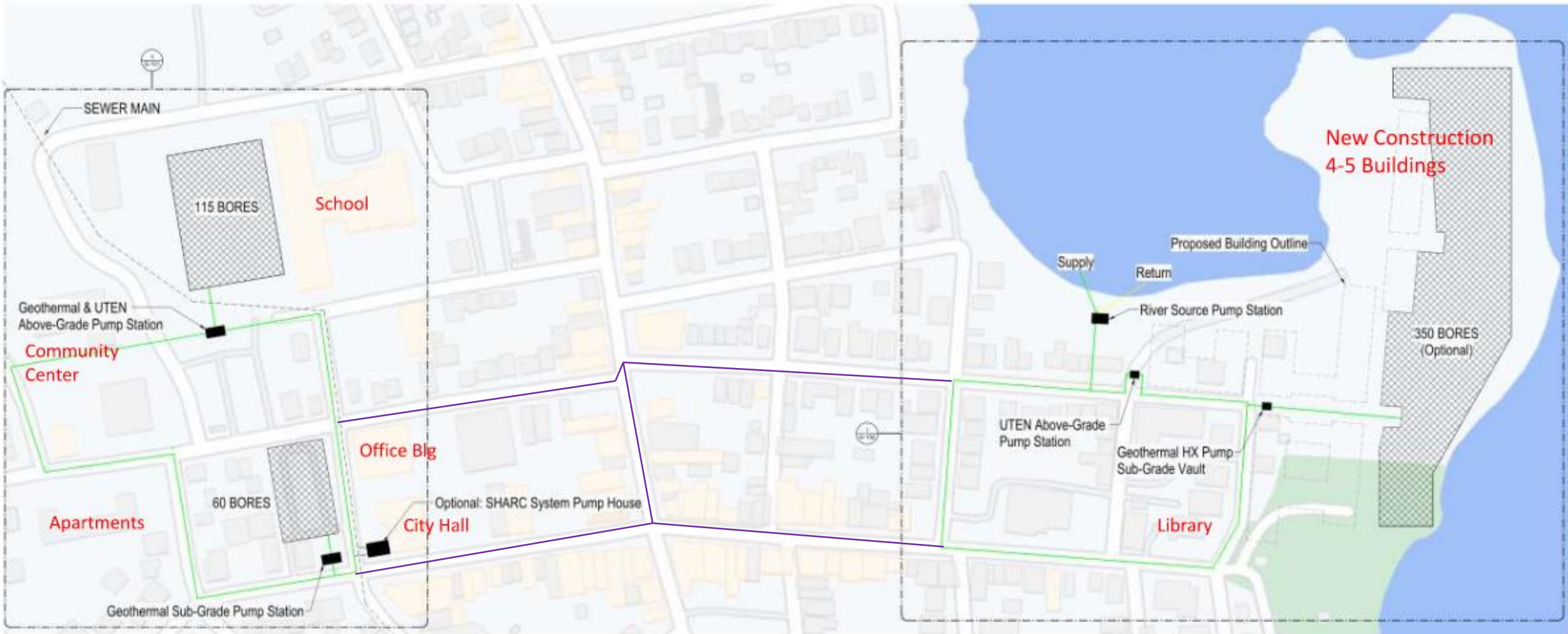
Statewide



New York City



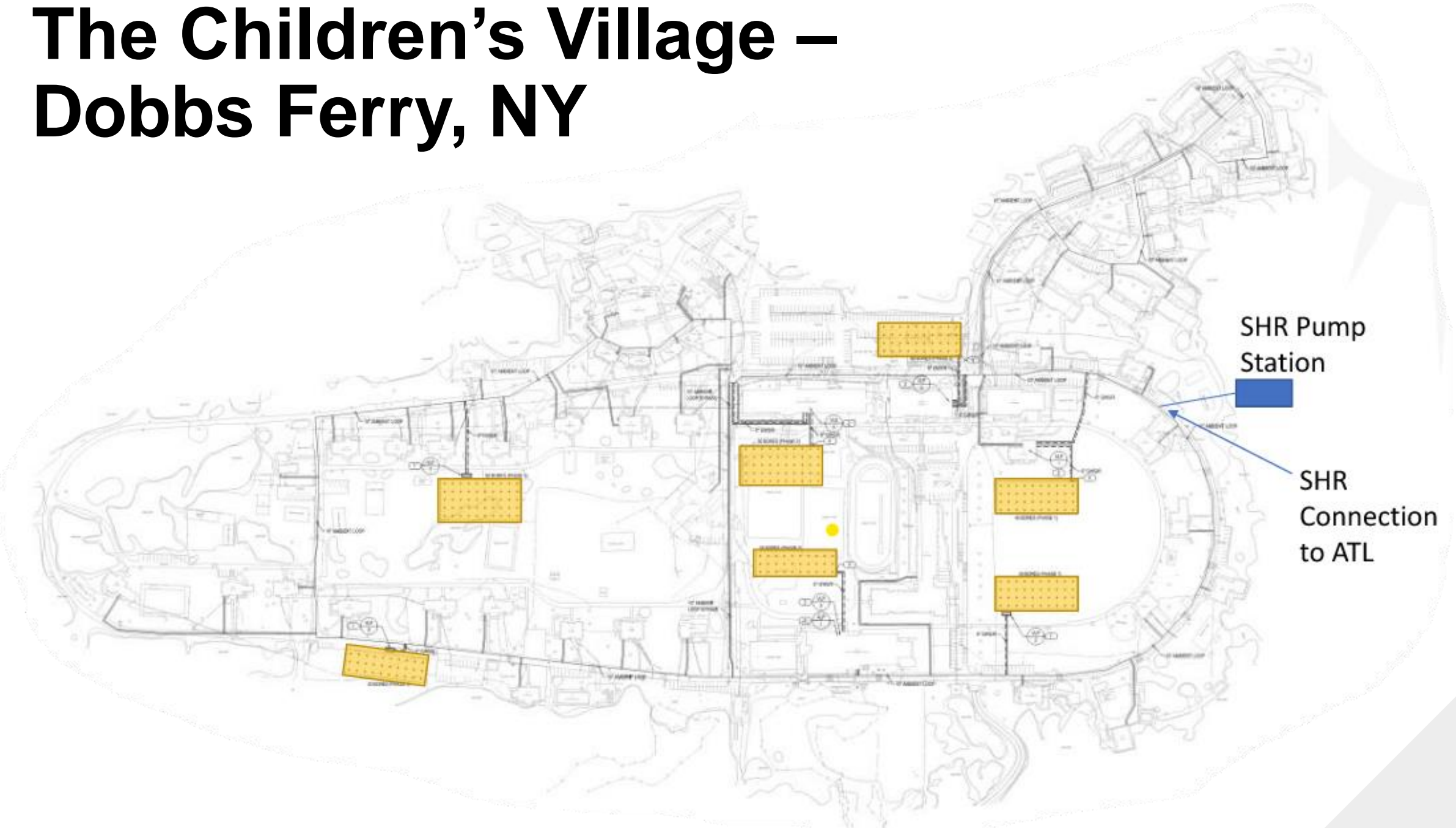
Town of Haverstraw – Haverstraw, NY



The Children's Village – Dobbs Ferry, NY



The Children's Village – Dobbs Ferry, NY



SHR Pump
Station

SHR
Connection
to ATL

A zero-combustion energy facility



CLIENT

Princeton

SERVICES

Geothermal and
renewables

LOCATION

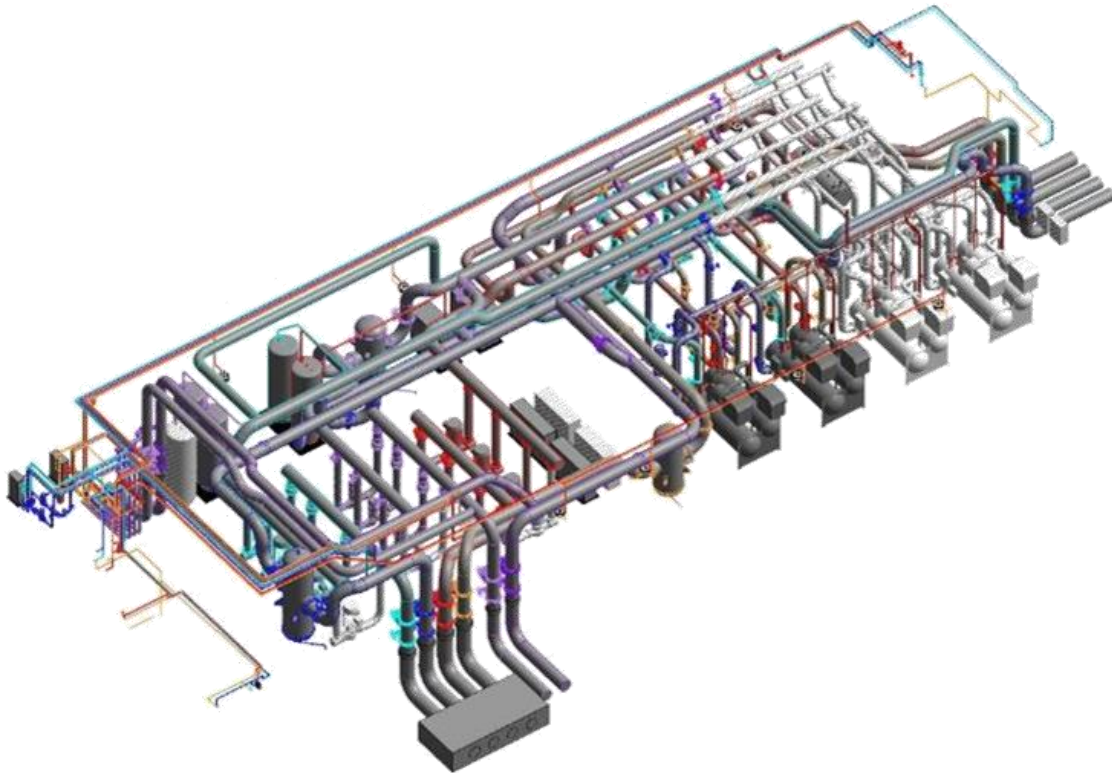
Princeton, NJ

YEAR

2022

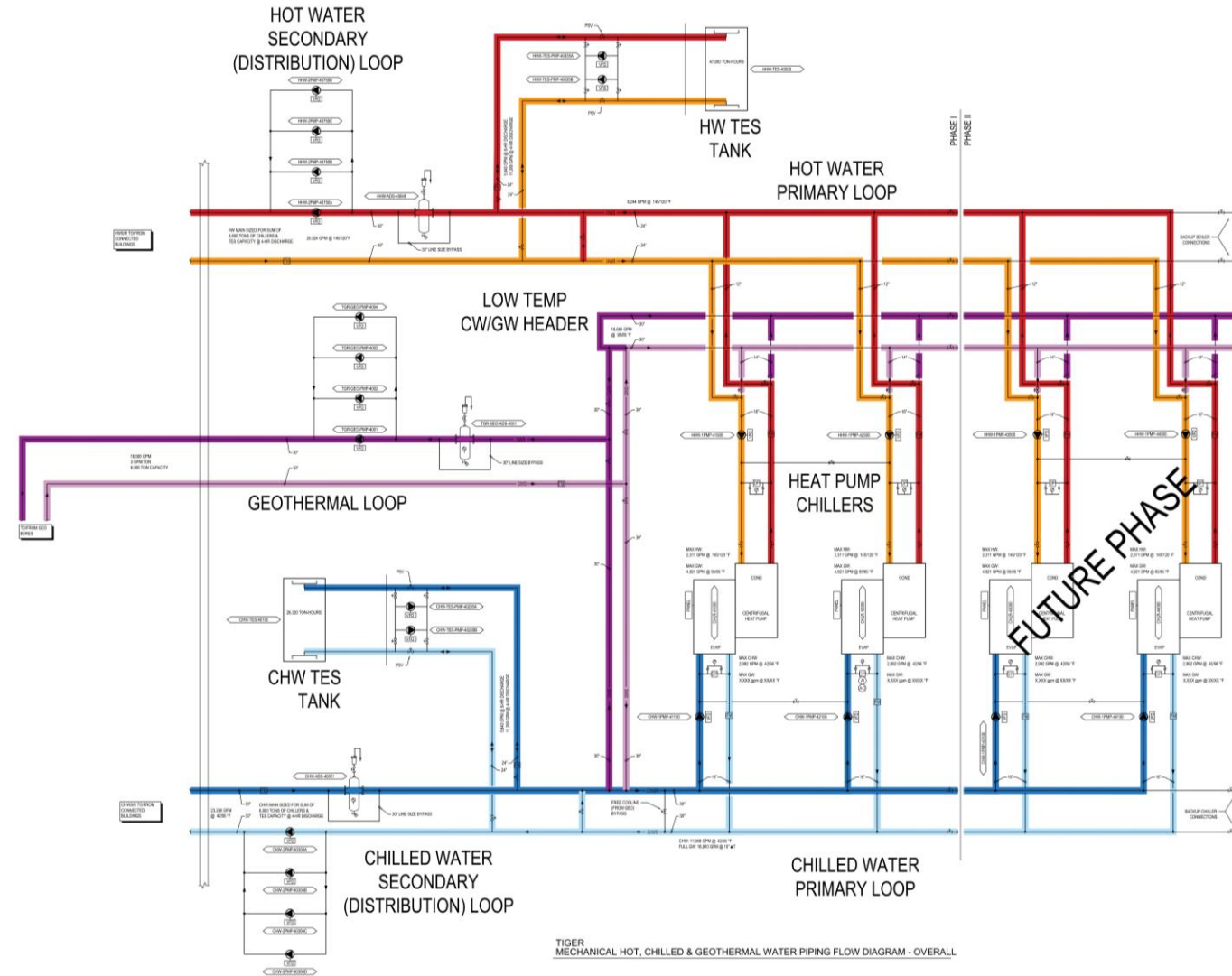
- ▲ New energy facility on the east campus will provide 7,000 tons of cooling and 113,960 MBH heating capacity solely from ground heat exchanger – advancing the campus toward their 2046 carbon neutrality target date

Princeton University: Implementation TIGER Plant



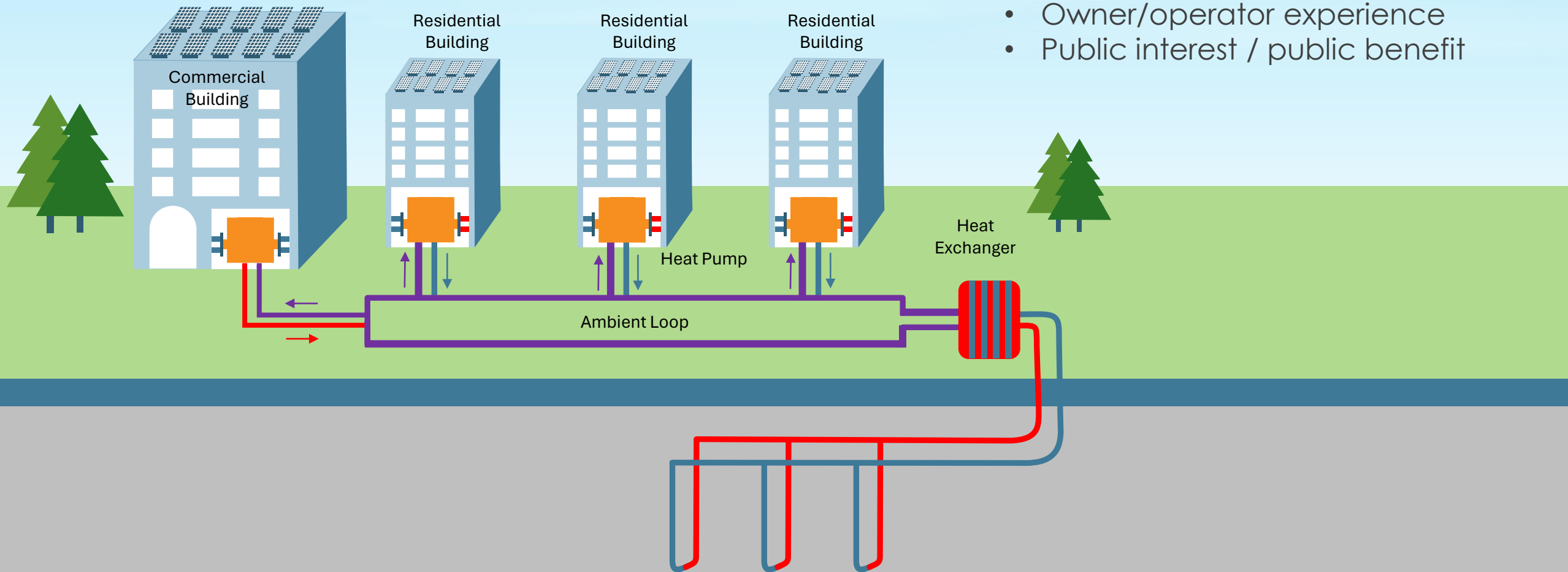
- ▲ (4) 1750 Ton Heat Pumps
 - 7,000 Tons Cooling
 - 113,960 MBH Heating
- ▲ Prestressed Concrete Tanks, Partially Buried
 - One (1) 2.25M gal CHW TES tank, 19,680 ton-hrs
 - One (1) 2.25M gal HW TES tank, 123.6 mw-hrs (421,123 mmbtu)
- ▲ Other Technologies
 - Air-Source heat pump
 - Open loop (supply and reinjection)

Princeton University: Implementation TIGER Plant



Thermal Energy Networks – Municipal Advantages

- Open space
- Utility corridors / Rights-of-Way
- Franchise agreements
- Infrastructure financing
- Owner/operator experience
- Public interest / public benefit





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