



ZIBI DISTRICT THERMAL PLANT

OTTAWA, ON



QUICK FACTS

- + District Energy
- + Industrial
- + Largest Net-Zero Carbon Community
- + 9,200 square feet
- + Smith + Andersen Electrical



ZIBI DISTRICT THERMAL PLANT

ABOUT THIS PROJECT

- + Construction of thermal heating plant with district energy system, located in the lower levels of the Zibi Development Bloc 10 building in Gatineau, Quebec.
- + Part of Zibi, Canada's largest net-zero carbon community, located on 34-acres of waterfront on the Ottawa River.
- + District energy system provides net-zero carbon heating and cooling for all tenants.
- + Central plant is designed with a total cooling capacity of 2,000 tons, a total heat rejection capacity of 5,000 tons, and a total heating capacity of 60,000 MBH.
- + 38 buildings in both Quebec and Ontario, are heated and cooled via an interprovincial hydronic loop from the central plant.
- + Dedicated 3,000 kVA Hydro Quebec vault and dedicated main electrical room incorporated into the design of the central plant.
- + Main distribution was set up with the panels located in the mechanical plant to service loads directly on site.
- + A mix of passive and active harmonic distortion was provided to reduce the total harmonic distortion.
- + Overhead cable tray distribution is provided from the distribution panels to various equipment, to allow for flexibility and future changes to the plant.

LOCATION
Gatineau, QC

**SMITH + ANDERSEN
SERVICES PROVIDED**
Electrical

KEY TEAM MEMBERS
Zibi
Theia Partners
Equinox

SIZE
9,200 sq. ft. (850 sq. m.)

BUDGET
Confidential

COMPLETION YEAR
2022

SUSTAINABILITY
One Planet Community

HOT BUTTONS

DISTRICT ENERGY

INDUSTRIAL

DESIGN-BID

NEW BUILD

ELECTRICAL

NET ZERO

LIGHTING DESIGN

