

COGENERATION/DISTRICT ENERGY FACILITY

Client:

Windsor Utilities
Commission

Project Location:

Windsor, Ontario,
Canada

Capacity:

10,000 ton Central
Cooling and Heating
Plant

**Approximate
Installed Project**

Value: \$12,000,000



A Canadian municipal utility selected PCI to be the Owner's Engineer/Construction Manager to review design and construction of the Northwinds Windsor District heating and cooling facility installed in Windsor, Ontario, Canada and to design the associated underground district heating and cooling system.

The scope of work included:

- Designed and managed the installation of 400 meters of underground heating and cooling pipe throughout downtown Windsor
- Utilized HeatMap hydraulic design program to optimize distribution system, minimize costs and optimize efficiencies and reliabilities
- Designed energy transfer stations (customer service connections) including:
 - Specified equipment
 - Managed contracts of suppliers
 - Managed installation
- Managed construction and commissioning activities
- Prepared O&M manuals and training instructions
- Prepared detailed design, construction drawings and specifications for district energy system

