

Enwave Power • Generation



OWNER: Enwave Energy Corporation

DESIGN BUILD TEAM:

Constructors:
E.S. Fox Ltd.

Prime Consultant:
MCW Consultants Ltd.

Structural Consultant:
Paul T. Keenan, P.Eng.

PROJECT DESCRIPTION:

Electric Power is generated to provide:

- Security of the Enwave district cooling water distribution.
- Security of The City of Toronto pumping station to maintain a supply of potable and fire water during a major power outage
- Peaking power to Toronto Hydro during periods of high demand.

SYSTEMS DESCRIPTION:

200,000 pph of 200 psig steam drives. Two (2) 5.5 MW Elliott condensing turbines. Steam leaves the turbine under vacuum and is condensed using water from Lake Ontario.

The condenser water is returned to Lake Ontario via the city storm water treatment prior to discharge back to Lake Ontario.

The process is designed for sustainability without detriment to the waters of Lake Ontario.

