

Cogeneration

Client:

Lake Superior Power Inc.

Engineers

UMA, Gryphon International

Location

Sault Ste. Marie, Ontario, Canada

Project Details:

This 110 MW combined cycle cogeneration plant supplies process steam to an adjacent paper mill and electricity to the Ontario electrical grid system. It utilizes two General Electric LM6000 gas turbines each rated at 40 MW and a 28.5 MW steam turbine. Waste heat from the exhaust gases of the natural gas fired turbines is recovered in two Deltak Heat Recovery Steam Generator units, which in turn provide steam to the Steam Turbine and process.

The plant was built on a fast track schedule; synchronization and project completion were achieved 16 months and 19 months respectively after contract award. Contract performance guarantees and completion dates were met without incident.

Aecon Industrial was the Balance of Plant Engineer-Procure-Construct contractor responsible for design, purchase of balance of plant equipment, construction and commissioning for this project.

Lake Superior Power



"Naturally, we are very pleased with this scheduled start-up milestone. It's an outstanding achievement to engineer and construct a co-generation plant of this size and complexity in less than 15 months."

Graham Wilson
Chief Financial Officer
Westcoast Energy

AECON