

Niigon • Technologies Ltd



OWNER : Niigon Technolgoes Ltd.
Moose Deer Point First Nation
Mac Tier, Ontario

DESIGN TEAM: Electrical Consultants
MCW Consultants Ltd.
Architect
Akitt Swanson & Pearce

PROJECT DESCRIPTION

- An industrial facility focusing on manufacturing automation, efficiency and environment responsibility. The building is designed with skylights over the production area. These north-facing skylights provide natural light for workers in the building and reduce annual electric lighting energy. The south face of the skylights are sloped at 45 degrees to accommodate photovoltaic panels for on-site electricity generation.

Electrical

- The electrical power supply is interconnected to 40 KW of photovoltaic panels on the roof that allow the building to use self generated energy, or export to the utility grid, when the building is not in use.
- The distribution system is designed to allow alternate generation means to be connected, such as fuel cells.
- Emergency power is provided by a propane driven generator, to reduce pollution.
- Energy efficient lighting connected to automatic lighting control system that takes advantage of natural daylight, coming into the facility via the skylights and extensive windows around the plant.

