



## Xstrata Nickel Rim South

Canada's first LEED certified pre-fab building



**Owner:**

Xstrata Canada Corp.

**Architect:**

Allen & Sherriff Architects Inc.

**Our Services:**

- Sustainable Design Facilitation
- Energy Efficiency Consulting
- LEED® Consulting & Certification
- Building Commissioning

Xstrata Nickel, a leading developer of mineral resources around the world, is committed to environmental responsibility. The design of the Nickel Rim South office/dry complex was guided by Xstrata's sustainable development framework to increase energy and resource efficiency, reduce greenhouse gas emissions, protect habitat, and reduce waste.

This completely modular facility was constructed at the NRB Plant in Grimsby, Ontario. After assembly, 126 building sections were installed on the project site. The entire construction project, from engineering to occupancy, took just over 10 months, less than half the time of conventional construction.

### Notable Features

- conservation of a large area of native forest
- modular construction resulted in less site disruption over
- all storm and mine wastewater treated on site
- rainwater cistern for toilet flushing
- no irrigation system
- hydronic heating system
- heat recovery on clothes drying system and water drains
- lighting controlled by daylighting and occupancy sensors
- high-efficiency condensing water heater
- steel building with high recycled content
- modular construction consumes fewer resources and sends less construction waste to landfill
- modular buildings can be deconstructed and recycled easily

### LEED® Project Facts

Gross Floor Area: 5500 (m<sup>2</sup>)  
Energy Density: 174 (ekWh/m<sup>2</sup>)

Category	% Performance
<b>Water Savings</b>	
Irrigation	100 %
Indoor Use	40 %
<b>Energy Savings</b>	
Energy Savings	65 %
<b>Waste Diversion</b>	
Waste Diversion	86 %
<b>Stormwater Treatment</b>	
TSS Removal	98 %
TP Removal	84 %
<b>Recycled Content</b>	
Recycled Content	26 %
Regional Content	16 %

LEED® GOLD



LEED-NC Gold Certified  
Completed 2009  
Sudbury, Ontario



**65%** Energy Savings



**40%** Indoor Water Savings



**26%** Raw Materials Savings

