

Fifth Town Artisan Cheese Co.

Green Enterprise in Action



Owner:
Fifth Town Artisan Cheese Co.

Architect:
Lapointe Architects

Our Services:

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

Fifth Town Artisan Cheese Company is an environmentally and socially responsible producer of handmade cheese using fresh, locally-produced goat and sheep milk. The Fifth Town brand aims to integrate traditional methods and craftsmanship with leading-edge sustainable technologies in a new 403 m² production building/retail outlet. Fifth Town is a leader in the area of sustainable enterprise, and is taking a systems approach towards maximum use of green innovations in building design, construction processes, cheese production, waste management and community outreach. Some of the technologies used in this LEED Platinum facility include renewable energy, a ground source heat pump system for space and process heating and cooling, and a constructed wetland for on-site wastewater treatment.

Notable Features

- site restoration using native species
- 100% heat island reduction (only concrete and gravel for outdoor hard surfaces)
- full cut-off exterior lighting with a very low power density
- rainwater cistern to supply water for toilet flushing
- low-flow fixtures including dual-flush toilets
- building and waste whey water treated on-site using biofiltration and a constructed wetland
- ground source heat pump system for building and process heating and cooling
- photovoltaics and wind power to supply 10% of electricity
- green power purchased
- 34% regional materials, including reclaimed wood and steel, durisol ICF blocks
- 57% of wood is FSC certified
- abundant daylighting and outdoor views
- exclusively locally-produced milk used in cheese-making
- community green education plan

LEED® Project Facts

Gross Floor Area: 403 (m²)
Energy Density: 180 (ekWh/m²)

Category	% Performance
Water Savings	
Irrigation	100 %
Indoor Use	62 %
Energy Savings	
Waste Diversion	78 %
Recycled Content	15 %
Regional Content	34 %
FSC Wood Content	57 %

LEED® Platinum



LEED Platinum Certified
Completed 2008
Picton, Ontario



69% Energy Savings



62% Indoor Water Savings



15% Raw Materials Savings

