



all systems

green

Strathcona County Community Centre...

The Strathcona County Community Centre, which opened in December 2010, is right at home located in the sustainable development of Centre in the Park, in Sherwood Park.

The Community Centre building was long envisioned to be a model of sustainable design, construction and operation.

The building's beautiful Tyndall stone, glass, chrome and brick provide solid, inviting surroundings to foster community connections, spirit and pride.

And behind these interior finishings ...

it's all systems green.



**STRATHCONA
COUNTY**

all systems



green

Our Community Centre's Green earns Gold!

The Strathcona County Community Centre received LEED® Gold Certification from the Canada Green Building Council (CaGBC) in 2013.



Building design, technology and materials were chosen for greatest operating efficiency, cost effectiveness and benefit to the environment.

The Community Centre's "green" features deliver a highly efficient building to operate, reducing impact on natural resources, and provide a healthier place to work in and visit.

It's a building that demonstrates Strathcona County's commitment to sustainability, and makes a positive difference for our environment.

What is LEED® ?

The LEED® – Leadership in Energy and Environmental Design – green building rating system encourages and accelerates global adoption of sustainable green building and development practices through universally understood and accepted tools and performance criteria.

LEED is a third-party certification program and an internationally accepted benchmark for the design, construction and operation of high performance green buildings. It provides building owners and operators the tools they need to have an immediate and measurable impact on their buildings' performance.

LEED promotes a whole-building approach to sustainability, recognizing performance in the key areas of:

- sustainable site development
- materials selection
- indoor environmental quality
- energy efficiency
- water efficiency
- innovation and design

The Community Centre's green features

Aligned with the LEED key performance areas, here are the green features that make the Community Centre... all systems green.

Community Centre sustainable site



construction phase

- construction waste sorted for recycling; approximately 87 per cent diverted from landfill

now open

- convenient public transit stops, an indoor bicycle parking room, and more showers to encourage green transportation
- located in a walkable, pedestrian-friendly designed area, where people can connect
- nearby stormwater management pond to treat stormwater, remove pollutants and provide 100 per cent non-potable irrigation water for the area
- energy efficient outdoor lighting with down cast illumination light pollution control
[Strathcona County was the first Alberta municipality to pass a Light Efficient Community (LEC) policy in July 2010. Supports Dark Sky preservation.]
- centralized recycling area to collect and sort all waste materials on site

Community Centre materials selection



- reclaimed, recycled and recyclable materials used throughout the building, such as:
 - 100-per-cent recycled steel used in the rebar, totaling the equivalent amount of steel used to make 1,478 cars
 - fly-ash concrete that uses a by-product from coal-fired power generation and fewer natural resources to make – releases less CO₂ than concrete made with standard Portland cement
- materials made of natural products such as Tyndall stone, wood and brick for long-term durability
- low or zero-emitting materials, such as:
 - flooring made with 40 per cent recycled materials
 - paints free of volatile organic compounds
- carpet tiles with the benefit to change one or some tiles to fix a stained or worn area rather than all carpet, reducing waste and the need for new materials
- modular wall system that can efficiently re-configure over and over again as needed to suit changing work space needs



Community Centre indoor environmental quality



- several of the green features add up to a less harmful, healthier indoor space
- multi-stream waste bins allow both residents and employees to separate their garbage: organics to be composted, recycling to be made into new products, waste only sent to landfill
- green housekeeping program using GreenSeal and Ecologo-certified cleaning product
- building designed for lots of natural light and windows can be opened for fresh air

Community Centre energy efficiency



- connection to the Community Energy Centre system that delivers heat to a number of buildings in the area from a central source; system will reduce greenhouse gases by 1,100 tonnes
- purchase of 100 per cent green power
- heat recovery on ventilation air that transfer heat between building exhaust air and incoming air
- indoor energy-efficient smart lighting through an Encelium control system that senses room occupancy and turns off lights once the person has left the room, monitors and harvests available daylight, and provides personal computerized lighting control of individual offices (shown to reduce commercial building lighting energy costs by 50 to 75 per cent)
- a grass-covered green roof on Council Chambers that helps reduce energy demands for cooling
- building uses 43 per cent less energy than standards set out in the Model National Energy Code for Canadian Buildings

Community Centre water efficiency



- a two-cistern rooftop rainwater collection system to store and reuse stormwater to flush toilets in the building
- low-flush toilets, waterless urinals and low-flow faucets with infrared flow sensors
- water-wise, drought-resistant trees and shrubs, native to the prairies to stand the best chance of flourishing

Building specs/LEED® gold performance

Gross floor area 17,250 square metres
 Energy density 171 kilowatt hours per square metre

Category	Performance %
Water savings	
irrigation	100 %
indoor use	57 %
Energy savings	43 %
Green power	100 %
Waste diversion	87 %
Recycled content	16 %
Regional content*	33 %

* Materials which are extracted and manufactured within the region – within 800 kilometres when transported by truck, within 2,400 kilometres when transported by ship or rail.

Strathcona County's other green buildings

- Community Energy Centre - LEED® Silver
- Parks Compound building - LEED® Silver
- Emergency Services Station #6 - LEED® Silver candidate



Green education

See how the building saves energy in real-time. As a component of the Community Centre's building management system, an online energy dashboard shows live and historical building energy use data.

View at www.strathcona.ca/allsystemsgreen.

It helps to tell the story and benefits about the Community Centre's green building features.



About Centre in the Park

Centre in the Park is a multi-use area being developed as a sustainable community in Sherwood Park. It combines municipal services, local government, residences, retail services and inviting public spaces...creating a heart for our community.

The Community Centre is the anchor building in Centre in the Park. It is a year-round hub for community events, cultural activity, learning and municipal governance and services.

Centre in the Park links the Community Centre, Prairie Walk and Volunteer Plaza with existing amenities such as Broadmoor Lake Park, Festival Place, the County's Heritage Trail system, businesses and schools.



Further information

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