LEED®
CANADA
BUILDINGS IN REVIEW
2002 | 2009
Welcome to the LEED® Canada Buildings in Review Supplement, the first in an annual series produced with SABMag. The Supplement serves as a public record of all buildings and interiors in Canada that have obtained LEED certification from the beginnings in 2002 to 2009 inclusive.

Just as important, it recognizes the achievement of LEED certification by leaders in the green building industry who are accelerating the transformation that will see high-performing, healthy green buildings, homes and communities become the norm throughout Canada.

The LEED® Canada Buildings in Review Supplement also supports the efforts of the Canada Green Building Council to demonstrate how the building industry is applying LEED® in creative and successful ways. This can only encourage and inspire others to adopt LEED and build on the great progress that has been made.

The CaGBC and SABMag are pleased to give the design professionals and building owners the national exposure and recognition they deserve for being at the forefront of LEED implementation.

Thank you to those who have participated in this Supplement. I encourage all who achieve LEED certification in 2010 to have their projects listed and their efforts recognized in next year’s LEED® Canada Buildings in Review Supplement.

Ron Lemaire
Vice President, Market Development
Canada Green Building Council
### Buildings in Review

#### 2009
- **Dockside Phase Cl-1** | Victoria, British Columbia
- **Fifth Town Artisan Cheese Project** | Picton, Ontario | Enermodal Engineering Limited
- **Knoll Showroom, Toronto** | Toronto, Ontario | Enermodal Design
- **Knoll Showroom, Toronto** | Toronto, Ontario | Enermodal Design
- **SCS Smith Carter Architects & Engineers Head Office** | Winnipeg, Manitoba | SCS Smith Carter Architects and Engineers Inc.
- **The Currents Residences** | Winnipeg, Manitoba | Windmill Developments Group Ltd.
- **SCS Smith Carter Head Office** | Winnipeg, Manitoba | SCS Smith Carter Architects and Engineers Inc.

#### 2008
- **Dockside Phase 1 - Synergy** | Victoria, British Columbia | Busby Perkins + Will Architects
- **Fifth Town Artisan Cheese Project** | Picton, Ontario | Enermodal Engineering Limited
- **Halsall Associates Limited - Ottawa Office** | Ottawa, Ontario | Halsall Associates Ltd.
- **West Village Suites** | Hamilton, Ontario | Enermodal Engineering Ltd.

#### 2007
- **Child Development Centre (University of Calgary)** | Calgary, Alberta | Kasian Architecture Interior Design and Planning Ltd
- **Environics Engineering Ltd. - Calgary Office** | Calgary, Alberta | Environics Engineering Ltd.
- **Environics Engineering Ltd. - Calgary Office** | Calgary, Alberta | Environics Engineering Ltd.
- **Toronto and Region Conservation - Restoration Services Centre** | Vaughan, Ontario | Enermodal Engineering Ltd.
- **Vento Residences** | Calgary, Alberta | Windmill Developments Group Ltd.

#### 2006
- **Operations Centre, Gulf Islands National Park Reserve** | Public Works and Government Services Canada | Sidney, British Columbia | McFarland Marceau Architects Ltd.
- **Enermodal Engineering Ltd. - Calgary Office** | Calgary, Alberta | Enermodal Engineering Ltd.
- **Vento Residences** | Calgary, Alberta | Windmill Developments Group Ltd.

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**SCS Smith Carter Head Office**

Smith Carter’s 50,000 square foot corporate head office was an opportunity for the integrated architecture and engineering practice to tangibly demonstrate how sustainable architecture can be used to increase communication, enhance productivity, and improve employee satisfaction. The building has received critical acclaim, winning a Governor General’s Medal for Architecture in 2006 and achieving LEED® Platinum Certification in May 2009.

www.smithcarter.com/green
The Ontario Ministry of the Environment in its ongoing effort to reduce the Carbon Footprint of its facilities undertook the renovation of their offices for the Minister and Policy staff at Queens Park targeting LEED Platinum Certification. The Ministry wished to lead by example in sourcing local materials, utilizing recycled content, and undertaking sustainable practices in the construction of their offices. In seeking to achieve Platinum certification, the Ministry would become the first Platinum certified interior project in the Ontario Government’s building portfolio.

The four basic elements of Earth, Air, Energy and Water were used as the inspiration for the design, combining local materials with state of the art control and monitoring systems to achieve a comfortable work environment for staff. Locally sourced materials were utilized wherever possible and include stone from Wateron, Ontario, the use of salvaged wood from century farmhouses in southern Ontario, and Teknion furniture manufactured in Toronto.

An interactive display provided in the reception lobby will allow visitors and staff to view the reduction in energy use, water consumption savings, and recycled content of the offices on an immediate and ongoing basis. A conscious effort was made by the Ministry to have users connect with the natural elements of the environment while interacting and working in the offices.

The CAGBC LEED BUILDINGS IN REVIEW

Ontario Ministry of the Environment
Minister’s Office - Queens Park, Toronto

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2009 | Vancouver Convention Centre Expansion Project

Largest waterfront convention centre in Canada with a 6-acre living roof
- 12 Million sq ft structure illustrating innovative design and construction
- Sustainability features include 1,300 boot invasive habitat plant structure, seawater heating and cooling system, on-site black water treatment facility
- Nearly half of total volume of waste generated is recycled.
www.mcmparchitects.com

2009 | Abbotsford Regional Hospital & Cancer Centre

500-bed state-of-the-art sustainable P3 healthcare facility
- Site building, integrated systems and interior all with special design strategies
- Water use and energy efficiency, greenhouse gas reduction
- Durable materials, resource management and exceptional indoor air quality
- A sustainable patient-centred healing environment.
www.mcmparchitects.com

2009 | BC Housing

Office renovation and expansion combines sustainable interior design practices
- Sustainability design strategy to increase energy savings, reduce greenhouse gas emissions and waste, and improve sustainability across BC Housing operations
- Low water consumption fixtures, equipment and appliances, occupant controlled daylight and occupancy sensors and temperature and ventilation controls.
www.mcmparchitects.com

2009 | Westminster Centre

Adaptive re-use of existing retail and office building
- 42,000 sf of new three-level office space constructed over approximately 14,000 sf of existing retail space on the ground floor
- Highly efficient exterior glazing and internal building systems result in a 40% reduction in energy and water usage.
www.mcmparchitects.com

2009 | Electronic Arts Motion Capture Studio

Motion Capture Studio with an extensive green roof
- Studio/warehouse that demonstrates sustainable, functional space
- 40% water use reduction and 40% energy savings as well as daylight and include views
- Low-VOC adhesives, sealants and carpets were used.
www.mcmparchitects.com

2009 | Electronic Arts Phase 2

Integrated design approach achieves design and sustainable goals
- Use of local materials and innovative sustainable design
- Optimized energy performance, thermal active radiant slab and displaced ventilation systems and storm water management
- A dynamic workplace, putting the well-being of the building users at the forefront.
www.mcmparchitects.com

2009 | Bankers Court

Calgary’s newest office tower takes a sustainable approach
Bankers’ Court is the first commercial core and shell project to achieve LEED® Gold in Canada. Green design features in this 29,992 m² building include a high-performance curtain wall system, high efficiency chillers, condensing boilers, and an energy star roof. Banker’s Court Green Facts:
- 86% of construction waste was diverted away from the city landfills
- 100% of demolished existing parkade was recycled
- 40% more water efficient than a standard office space
- 40% of showers visual access to views.
www.cohos-evamy.com

LEED GOLD

2009

6897 Financial Drive, Mississauga | Mississauga, Ontario
7570 Derrycrest Drive | Mississauga, Ontario
Abbotsford Regional Hospital and Cancer Centre | Abbotsford, British Columbia | Muscous Cattel Mckay Partnership

Aboriginal House – University of Manitoba | Winnipeg, Manitoba | Prairie Architects Inc.
Alkitefl-Gannicke Toronto Resource Centre | Toronto, Ontario | Stantec

Active Sportplexes (Kitchener, Ontario) | Envermod Engineering Limited
Bankers Court | Calgary, Alberta
Bed Trinity Square | Toronto, Ontario

Bomal Centre for Bird Conservation | Ives Lake Bird Observatory | Owen Sound, Alberta
Burnside Gorge Community Centre | City of Victoria | Victoria, British Columbia | Adrian Group Consultants Inc.

Centre CDP Capital | Montreal, Quebec
Elementary Teachers’ Federation of Ontario Waterloo Teacher Local Office | Kitchener, Ontario | Envermod Engineering Ltd.
Grey Bruce Public Health | Owen Sound, Ontario | Envermod Engineering Ltd.
Home Office Tenant Improvements – Floors 17, 16 and 15 (BC Housing) | Burnaby, British Columbia | MCM Interiors Ltd.

Minto Midtown | Toronto, Ontario | Minto Group Inc.
Mundy’s Bay Public School | Midland, Ontario | Envermod Engineering Ltd.
Normand-Maurice Building – The Government of Canada ecological building | Montreal, Quebec | Preverker Boy & associates, architects

Pine Creek Operations, Maintenance & Administration Building | The City of Calgary – Waterloo | Waterloo, Alberta | Designworks Architecture
Renoations to South Bond Building – Ryerson University | Toronto, Ontario | Withered Associates

Somerset Square | Saint John, New Brunswick
Student Housing | University of New Brunswick | Triffto Hall | Students, Abpont, Barry Johns (Architecture) Limited

University of Toronto Facilities and Services and Real Estate Operations Office | Toronto, Ontario

Waterloo Regional Police Service Investigative Services Building | Cambridge, Ontario | Envermod Engineering Ltd.

Westminster Centre | New Westminster, British Columbia

Whistler Olympic Park Dayodge | Whistler, British Columbia | Adrian Group Consultants Inc.
The City of Calgary's new Pine Creek Wastewater Treatment Plant is located on a highly visible 120 hectare site. It consists of wastewater treatment process structures and the Operations, Maintenance & Administration Building. Though highly prescriptive performance requirements for wastewater facilities presented unique design challenges, the City of Calgary's commitment to principles of sustainable development across this entire site presented unique opportunities to the design team. The site development minimizes both the visual and environmental impact through the use of landscape buffers, low building profiles with green roofs, 100% on-site stormwater management, extensive native prairie grasses, and wildlife corridors across the site. Constructed under multiple contracts spanning several years, an innovative approach to erosion and sedimentation control enabled the development and implementation of a common erosion and sedimentation control system which ensured protection of the adjacent Bow River.

The Operations, Maintenance & Administration Building achieved LEED Gold certification (48 points) on February 9, 2009. The project is comprised of offices, meeting rooms, laboratory, maintenance shop, tool crib, and change & shower facilities. Energy efficiency strategies provide an annual energy cost reduction of approximately 54% compared to the reference building. Contributing strategies include extensive daylighting through perimeter and rooftop glazing, displacement ventilation, heat recovery ventilation (shop and lab areas operate on 100% outside air supply), lighting power densities 40% below the MNECB reference, as well as central heating plant efficiencies. The City of Calgary’s twenty year commitment to green power for their facilities allows for 50% of the power demand to be wind generated. The use of grey water for toilet flushing and irrigation, along with low flow showers, faucets, toilets and urinals provide water savings of 71% below the LEED reference standard. Materials & Resources credits include Certified Wood, 32% Recycled Content, 32% Regional Materials, and 85% of construction generated waste diverted from the landfill. The building occupants benefit from exceptional Indoor Environmental Quality from strategies that captured twelve of the fifteen available LEED points.

LEED SCORE CARD

<table>
<thead>
<tr>
<th>LEED for New Construction Certification awarded February 9, 2009</th>
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<td>Gold</td>
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<td>Indoor Environmental Quality</td>
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<td>Innovation &amp; Design</td>
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The City of Calgary, Water Resources
Prime Consultant: CH2M HILL
Architect: GEC Architecture
Mechanical and Electrical: AECOM
(formerly Earth Tech)
Civil and Structural: Stantec
Sustainable Design & LEED Consultant: Designworks Architecture Inc.
Energy Engineer: Foraytek
Landscape Architecture: O2 Planning + Design Inc.
Contractor: Graham Construction
Project Size: 3,220 m2 (OM&A)
Cost: $12 million
The Toronto Carpet Factory and its Liberty Village neighborhood have gone from heyday to hard times to renaissance in 100 years. Walking into the old factory’s boiler house today reveals an architecturally dramatic, historically significant, environmentally innovative, aesthetically beautiful office furniture showroom.

Sister companies Allsteel and Gunlocke, manufacturers of quality office furniture, set LEED certification as a goal for their new Resource Center and launched the project with a LEED design charrette. The result was certification as one of the first LEED-Canada for Commercial Interiors (CI) Gold interiors in Toronto.

New approaches were necessary to preserve history, conserve environment, and mind the budget, considering the historic and dramatic features of the building. The multiple levels, 50 foot ceilings and tall, historically significant windows challenged energy efficiency, especially in Toronto’s winters. Sourcing locally required scrutiny of every purchase and often conflicted with other LEED points. Finish pigments for the concrete floor made ensuring air quality difficult.

It worked. Lighting sensors make subtle, energy-saving, adjustments during the day and the season as natural light changes. Green power, Energy Star appliances, and a nearby Carshare vehicle save energy and reduce climate impacts. Low-emitting materials and an indoor air quality management plan created a healthy indoor environment and sourcing materials regionally benefited the local economy.

The results are spectacular. A floating glass conference room, exposed architectural steel, the smokestack seating nook. The Boiler House has a sparkling new life, while Allsteel and Gunlocke have a stunning, green showroom.

The CAGBC LEED BUILDINGS IN REVIEW

2009 | Allsteel-Gunlocke
Toronto Resource Centre
History and Environment Coincide in Toronto

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2009 | City of Calgary Water Centre

Rising from the prairie landscape like a great ocean wave, the City of Calgary Water Centre is a building unlike any other: its skin arches up beyond the height of its four stories into a distinctive roof, warding off harsh north winds and sheltering a south-facing glass curtain wall.

Inside employees work in comfort surrounded by natural light and ventilation, sometimes congregating in small meeting rooms and often connecting on the sweeping modern staircase. Outside, runnels and constructed wetlands tell the story of water while nourishing native prairie grass, flowers and shrubs.

The award-winning Water Centre is part of the first phase of redevelopment on an industrial site that is being transformed into a civic administrative and operational centre. The facility houses approximately 800 Water Resources and Water Services employees. It is the largest LEED rated office building in Alberta.

Innovation and sustainability drive the design of this building. Constructed on a reclaimed five-acre brownfield site, the Water Centre was built with recycled materials wherever possible, and is almost fully recyclable itself. It uses water only as needed, capturing naturally occurring water and reusing it onsite to maximize conservation efforts. Natural daylighting and the displacement ventilation system work together to enhance interior conditions and minimize energy costs.

The energy efficiencies built into every aspect of the Water Centre is beneficial for the environment and the citizens of Calgary, with estimated savings of 40% in annual operating costs. Based on these projections, the Water Centre is expected to pay for itself in 15 years.

91% of construction waste recycled
59% reduction in water use
100% daylight office space

LEED SCORE CARD
LEED for New Construction
Certification awarded November 18, 2009

Gold
Sustainable Sites 10/10
Water Efficiency 3/5
Energy & Atmosphere 13/17
Materials & Resources 8/10
Indoor Environmental Quality 11/15
Innovation & Design 4/5

www.calgary.ca/watercentre

2009 | Aboriginal House (University of Manitoba)

This multi-use building has 36% MNECB certified energy savings, natural and recycled materials such as locally-quarried Tyndall stone, heated entirely with reclaimed energy, energy-efficient plumbing fixtures, natural daylight supporting interior lighting, occupancy controlled lighting, 10% of construction wastes were recycled or salvaged.

2,362 m²

2009 | Somerset Square

This building has rain water collection used to flush toilets, a white roof to reduce cooling costs, natural daylight to minimize electricity consumption, operable windows for fresh air and temperature control, low maintenance landscaping including drought-resistant shrubs, sensor operated lights.

2,185 m²

2008 | Cambridge City Hall

First City Hall in Canada to achieve LEED Gold. Highlights: free heating of ventilation air in winter months, rain water collection in a 30,000 L cistern used to flush toilets, translucent glazing for daylighting, 10 m living wall for air purification, green roof, durable building envelope.

1,294 m²

2008 | Kingston Police Headquarters

First LEED building in Kingston achieved 45 points. Highlights: rainwater stored for outdoor use and toilet flushing, energy recovery system for year-round temperature and humidity exchange, well insulated building envelope, occupancy and daylight sensors, FSC wood products, education kiosk, green housekeeping program.

1,089 m²

2004 | Winnipeg Mountain Equipment Co-op

This building has energy efficient merchandising luminaries and task lighting, green roof for evaporative cooling and waste water filtration, photovoltaic panels used to run the pump that collects rainwater for the green roof, about 95% of constructed building is from reclaimed materials.

2,762 m²

2009 | Royal Botanical Gardens - Camilla and Peter Dalglish Atrium

LEED Registration date: 2007
This elegant facility has a living wall which improves environmental air quality, rain-water collection for irrigation and grey-water use, radiant floor heating, solar shading and overhang, daylight for 100% of the occupied space, use of recycled content, FSC certified wood products.

1,480 m²

www.calgary.ca/watercentre
Our health today and in the future depends on a strong commitment to environmental sustainability. This innovative building sets a new standard for local sustainable development and acts as a catalyst to future redevelopment along the waterfront.

The design of the Grey Bruce Health Unit draws from natural and environmentally sustainable materials and systems to create a healthy workplace. It supports the desire of the Health Unit to deliver programs in a functional and accessible way while minimizing the use of non-renewable resources and producing minimal waste.

The building was designed as a multi-purpose facility with offices/workstations for 155 people, classrooms, laboratories, training areas, and consultation spaces. The building is three storeys with a mix of concrete stone and cedar cladding incorporating green building design concepts. The Grey Bruce Health Unit Board was committed to establishing a benchmark for healthy living by creating a healthy building for its operations.

The innovative design includes numerous design initiatives including the collection of rainwater for use in waterclosets and the use of natural ventilation in the office spaces. The current design reduces energy consumption by 53% of the Model National Energy Building Code. The project has been certified LEED Gold.

The Owen Sound Sun Times published the following:

“The new $17.2-million Grey-Bruce health unit is a majestic building with its tall glass windows, copper siding and brick walls. And that’s just its face, because it is even more impressive inside.

Is the new building frivolous? Perhaps a little. Gutsy? Yes. Forward thinking? Absolutely. There is much more to this building than meets the eye, and this is what puts it head and shoulders above any other building – public or private.”

Project Description

The Grey Bruce Health Unit represents a ground-breaking approach to public health care facilities, incorporating the requirements for a practical, accessible public facility with the requirements for healthy “green” building design. This building successfully expresses the commitment to environmental stewardship across Owen Sound and the counties of Grey and Bruce.

This building was designed and constructed to meet many important green building objectives:

■ remediating a brownfield site and creating a catalyst for future growth
■ leaving a minimal footprint on the natural environment
■ making efficient use of energy, water, and material resources
■ providing a healthy work environment
■ creating an inviting, functional, and educational building for visitors

The site selected for the Health Unit was previously developed and deemed contaminated. Thus, the development of the Health Unit had a positive impact by improving environmental conditions. Soil contaminated with metals and hydrocarbons underneath the building area was removed from site and replaced with clean fill.

The building has established a new benchmark for public buildings in Owen Sound, and has become the catalyst for future development along the waterfront, giving back the promise and potential of the waterfront lands to the people of Owen Sound.

www.salterpilon.com

THE CAGBC LEED BUILDINGS IN REVIEW
**THE 2011 LEED® CANADA BUILDINGS IN REVIEW SUPPLEMENT**

A PUBLIC RECORD OF ALL LEED-CERTIFIED PROJECTS IN 2010.

**DON’T MISS IT!**

Find out now how to display your project in the 2011 edition. Publicize your achievement across the country. Visibility in print and web

**CONTACT**

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**2009 | Mundy’s Bay Elementary Public School**

One of the first recognized sustainable schools in Canada, Mundy’s Bay incorporates energy efficient systems with significant elements of the community’s heritage. Student achievement and environmental sustainability were the driving principles behind the design that has created an atmosphere to boost productivity and inspire learning. Seen here, the large atrium runs through the core of the 4,902 m² building capitalizing on natural light.

www.thandyarchitect.on.ca

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**2008**

- Aquaquest – The Marilyn Blusson Learning Centre | Vancouver, British Columbia | Atrium
- Ball’s Falls Centre for Conservation | Uxbridge, Ontario | Enermodal Engineering Limited
- Brookside Public School | Scarborough, Ontario | Enermodal Engineering Ltd.
- Cambridge City Hall | The Corporation of the City of Cambridge | Cambridge, Ontario | Enermodal Engineering Ltd.
- Canada Green Building Council – Vancouver | Pender Street Office | Vancouver, British Columbia
- Canadian Union of Public Employees – National Office | Ottawa, Ontario | Enermodal Engineering Ltd.
- Engineering/Computer Science Building – University of Victoria | Victoria, British Columbia | Sustainability Solutions Group
- Holy Trinity Academy | Chelth the Redemptor Catholic Schools | Minto Rosebank, Alberta | Quinn Young Architects Ltd.
- Humber College Urban Ecology Centre | Toronto, Ontario | Enermodal Engineering Ltd.
- Kingston Police Headquarters | Kingston, Ontario | Enermodal Engineering Ltd.
- Kwantlen University College Trades & Tech Centre | Surrey, British Columbia
- Minto Roehampton | 100 Roehampton Inc. | One affiliate of Metrotown Communities | Toronto, Ontario | Minto Group Inc.
- National Research Council Canada Institute | Vancouver, British Columbia
- PowerStream Corporate Head Office | Vaughan, Ontario | Enermodal Engineering Ltd.
- Rideau Valley Conservation Centre | Ottawa, Ontario | Morrison Haynefield Ltd.
- Sisters of St. Joseph Residence | London, Ontario | Enermodal Engineering Ltd.
- Southbrook Vineyards Hospitality Pavilion | Niagara-on-the-Lake, Ontario | Enermodal Engineering Ltd.
- UBC Aquatic Ecosystems Research Laboratory | UBC Properties Trust | Vancouver, British Columbia | Recollective

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**Sometimes, it’s okay for sustainability to be beneath you.**

Take a stand on green-build with Tate underfloor service distribution systems (UFSD).

With Tate’s UFSD, it’s the things you don’t see that make the difference. The beauty of this system is in what happens below the surface. A combination of modular wiring, cabling and air delivery systems offers savings in materials and energy efficiency, while also improving air quality. In fact, it’s a system so full of green-build attributes, you’ll never really walk on it, you make a stand.

To learn more, call 905-847-0138 or visit www.tateasp.com.
Holy Trinity Academy is a visibly Catholic, healthy and energy efficient senior high school. It is the first in Canada to achieve LEED Gold. Quinn Young Architects Ltd worked closely with Christ the Redeemer Catholic Schools to select materials, systems and fixtures that encourage environmental stewardship without compromising design goals. Its unique triangular design and placement of windows allows for an abundance of sunlight to fill the school.

www.qyarch.ab.ca

| 18% | reduction in energy consumption |
| 47% | construction waste diverted from landfill |
| 75% | 92% of regularly occupied spaces have views to the outdoors |

Traditional HVAC systems were substituted with a low-velocity displacement ventilation system distributing 100% fresh air to all classrooms, providing an optimal balance between occupant health and energy consumption. The mechanical and electrical systems together reduce energy demand, while 50% of the building’s electricity is supplied from wind energy through a 5 year green power contract. Retention ponds and bio-swales control storm water runoff and provide a natural filtration system. Use of low-flow fixtures reduces the water consumption by 40%.

The interior gathering space is filled with Catholic symbolism. The chapel, water feature, stained glass window and triquetra symbols emphasize this area’s importance. Flooded with natural light, it is a space that students, teachers and visitors are drawn to; a healthy, inspiring hang out space that serves many functions. Exterior pillars help shade the south facing wall of the library and provide the perfect canvas for artwork representing the 4 writers of the gospel.

LEED SCORE CARD

LEED for New Construction Certification awarded October 1, 2008

Gold 40*

Sustainable Sites 20%
Water Efficiency 45%
Energy & Atmosphere 60%
Materials & Resources 60%
Indoor Environmental Quality 10%
Innovation & Design 5%

2008 | Holy Trinity Academy
Catholic Senior High School (grades 10-12)
uses green design to teach environmental stewardship

2007

Capital Regional District Headquarters - Phase 2 | Capital Regional Environmental | Victoria, British Columbia | ADVANCED GROUP CONSULTANTS INC.
Cottonwood Lodge - A Fraser Health Residential | Mental Health Facility | Fraser Health Authority | Capilano, British Columbia | RETAIL ACTIVE CONSULTING
Greenwood Building | Yarrow West, Northwest Territories | Public Works and Government Services Canada

Mount Royal College Centre for Continuous Learning | Calgary, Alberta | Stanislaw Architecture
La Maison de L’UACI / Place de la cité internationale | Montreal, Quebec

Mount Royal College Centre for Continuous Learning | Calgary, Alberta | Stanislaw Architecture
La Maison de L’UACI / Place de la cité internationale | Montreal, Quebec

St. Gabriel’s Passionist Parish | Larkin Architect Limited | Toronto, Ontario | Enermodal Engineering Ltd.

Vaughan Fire & Rescue Station No. 7-9 & York Region EMS Paramedic Response Station | City of Vaughan | Vaughan, Ontario | Enermodal Engineering Ltd.

Villa Angela | Ursuline Sisters | Chatham, Ontario | Enermodal Engineering Ltd.

VANOC 2010 Offices | Vancouver, British Columbia

D’Ambrosio architecture + urbanism studio/office | Victoria, British Columbia

Kamloops Centre for Water Quality | Kamloops, British Columbia | Stanislaw Architects Ltd.

PC’s Centennial Learning Centre | Edmonton, Alberta

The Forest Centre | Innovation Place | Prince Albert, Saskatchewan | Integrated Designs Inc.

University of Victoria Medical Sciences Building | Victoria, British Columbia | ADVANCED GROUP CONSULTANTS INC.

2007 | Sisters of St. Joseph’s Residence
Designed to incorporate the latest principles of design for sustainability, including ground heat exchange, rainwater recovery, extensive green roofing, and advanced control systems; the residence also creates a unique living environment for the Sisters and their ongoing community activity. www.cornerstonearchitecture.ca
A UNESCO World Heritage Site, Dinosaur Provincial Park is recognized for its unique "badlands" landscape and the most extensive fossil bed in Canada. As the steward of this unique landscape the Government of Alberta was committed to environmental responsibility in the design and construction of the Visitor Centre and Tyrrell Field Station expansion.

A key project goal was minimizing site disturbance while doubling the size of the existing facility. The addition is located on an existing concrete plaza. A new forecourt which includes gardens featuring native park species, replaced a parking lot. The landscape design increases the site perviousness and employs landscape structures that channel and infiltrate the infrequent but heavy rains.

Site features include the use of native species, shade structures to provide respite from the high summer temperatures, and a dark sky lighting strategy to minimize disturbance of nocturnal wildlife and support celestial viewing.

Recognizing regional water scarcity, plumbing upgrades include dual flush toilets, waterless urinals and low flow aerators. Resultant water savings allow for a two and half increase in visitation within former annual water use rates. Wastewater is handled by an onsite bio-digester treatment plant. The project was recognized for exemplary performance in water use reduction.

A 41% energy cost savings was achieved by working with ambient site conditions, maximizing passive thermal dynamic systems, and providing an energy efficient building envelope. Despite sustained high summer temperatures air conditioning was avoided. A passive evaporative cooling tower delivers cool air while high operable windows allow warm air to exit and provide abundant daylight. The thermal siphoning effect combined with floor slab cooling from a fire protection reservoir and night flushing provide a range of cooling strategies.

Despite the remote location the project achieved exemplary performance in regional materials (60%), and employed recycled content, rapidly renewable materials and low emitting products. Waste diversion reached 95% which included directing demolition materials to local high school construction programs.

Island West Coast Developments Ltd. Office

When IWCD needed additional room to expand, they decided to target LEED Gold certification and build a state-of-the-art green building in Nanaimo (Vancouver Island). The building has been designed to be a showcase of green features and products that clients can select from.

The site incorporates bioswale systems to filter contaminants from storm run-off before it is diverted to a rain garden. This rain garden has been designed to work with a water feature at the front of the building to retain all storm water. All plants have been chosen as native drought-resistant plants requiring no irrigation.

Materials were selected for being highly-recyclable, rapidly renewable, and locally harvested/manufactured. There are over 100 Glulam beams which are manufactured from mountain pine beetle-infested lumber. The center of the building incorporates a two-story, curved, reclaimed brick wall recovered from a local building which functions as a heat sink/source with its thermal massing properties.

Automatic lighting controls and a full DCC control system provide comfort control to the occupants. Thermal comfort is provided through radiant concrete slabs which extract and deposit heat via the geo-exchange field under the parking lot. The rear stair connects the interior spaces providing a stack effect for natural ventilation aided by a computer-controlled relief air damper.

The roof features a patio area and several varieties of green roofing systems. IWCD and Vancouver Island University have partnered to conduct a two-year study to monitor the water retention and carbon sequestration performance of these roofs.

www.islandwestcoastdevelopments.com

LEED SCORE CARD

<table>
<thead>
<tr>
<th>Targeting LEED Gold</th>
<th>Gold</th>
<th>44</th>
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<tbody>
<tr>
<td>Sustainable Sites</td>
<td>9/14</td>
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<tr>
<td>Water Efficiency</td>
<td>4/5</td>
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<td>Energy &amp; Atmosphere</td>
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<td>Materials &amp; Resources</td>
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<td>Innovation &amp; Design</td>
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</table>

LEED SILVER

2009

1st Choice Savings Center for Sport & Wellness - University of Lethbridge | Lethbridge, Alberta | Barry Johnes (Architecture) Ltd.

Aéroport de Kuujjuaq | Transport Canada | Kuujjuaq, Quebec | Alithics

Canadian Tire | Welland, Ontario | Enermodal Engineering Ltd.

Centre Bell | Montreal, Quebec

CFB Gagetown - 1st Training Quarters Accommodations | Department of National Defense | Oromocto, New Brunswick | Enermodal Engineering Ltd.

Condominium Corporation No. 10100669 - o/a Century Plaza | Harvard Developments Inc. | Regina, Saskatchewan | Stannek

École Victor Broders | | de la Colombie-Britannique | victoria, British Columbia | Adrienne Group Consultants Inc.

First Capital - RBC Beaconsfield | Beaconsfield, Quebec

First Capital - St-Hubert - Building F | Longueuil, Quebec

First Capital - Starbucks Beauparlant | Beauparlant, Quebec

Halcrow Yolles Toronto Office Expansion | Toronto, Ontario | Halcrow Yolles

Ministry of Natural Resources Headquarters | Westende Group | Aylmer, Ontario | Enermodal Engineering Ltd.

Motion Capture Studio - Electronic Arts (Canada) Inc. | Burnaby, British Columbia | Phase Combat Media Partnership

Novo at Essex Phase 2 | Vidal Corporation | Toronto, Ontario | Vidal

Ontario Investment and Trade Centre | Toronto, Ontario | Gensler Engineering Consultants Inc.

Outdoor Gear Canada (OGC) - Head Office & Warehouse | St-Laurent, Quebec | Martin Roy & Associates

Ottawa | Century Group | Delta, British Columbia | Enermodal Engineering Ltd.

Canada Centre & Trade Centre | Toronto, Ontario | Gensler Engineering Consultants Inc.

Oxford County Administration Building | Woodstock, Ontario | PWL Canada/Thrasher Architects Inc.

Randy Herman Centre for Community Safety | Maple Ridge, British Columbia | Incolective Consulting

Red Deer Recreation Centre Major Renovation | The City of Red Deer | Red Deer, Alberta | I2 Architecture

Nubeau | Oakville, Ontario | PWL Canada/Thrasher Architects Inc.

Toronto Police College | Toronto, Ontario | I2 Architecture

Upper River Valley Hospital | Province of New Brunswick, Waterford, Cole Co | New Brunswick | Enermodal Engineering Ltd.

VF Outdoor Canada Head Office | Win Saint Laurent, Quebec | Rubino et Rotman associés

Welland Callway Centre | Welland, Ontario

2009 | Halcrow Yolles Toronto Office Expansion

From our practical, sustainable client solutions to our socially responsible company philosophy, Halcrow Yolles is a leader in thinking, designing and building sustainably. The expansion of our Toronto office has been awarded LEED-Canada CSilver.

www.halcrowyolles.com
Oliva is a 60,000 square foot mixed-use four storey complex comprising 48 residential units with 15,000 square feet of street level CRU’s. Centrally located in the community of Tsawwassen, BC, Oliva is adjacent to the existing Tsawwassen Town Centre Mall, which offers a wide variety of shops and services to the residents.

Oliva is a LEED Silver certified building, achieving significant reductions in energy and water consumption, as well as improved indoor air quality. The building was designed to exceed industry efficiency standards, with a focus on sustainability and resource conservation.

Some of Canada’s finest LEED certified buildings were able to achieve this highly regarded status by implementing Mitsubishi Electric’s City Multi® as the HVAC system. With a reputation for exceeding industry efficiency standards, like VRF technology, it’s only natural to find City Multi® at the cutting edge of sustainability and geothermal HVAC installations. If you’re looking to go green, look for City Multi®. Learn more about how a City Multi® HVAC system can help you achieve LEED certification at CityMulti.ca.

City Multi® helped these projects achieve LEED Certification:
- Enviromental Engineering Corporate Office in Kitchener, ON - LEED Platinum
- HSBC Bursary (DiscoveryGreen) in Burnaby, BC - LEED Platinum
- Place de L’Escarpeamage Phase 1 in Quebec, PQ - LEED Gold
- Caisse Desjardins Des Chutes Montmorency in Boischatel, PQ - LEED Silver
- SSQ Immobiliere in Quebec, PQ - LEED Certified

Construction of Oliva involved the demolition of a portion of the Tsawwassen Town Centre Mall, along with an above ground parking lot. Commercial/retail space was regained on the ground level at Oliva, while underground parking now houses vehicles for both residential and commercial needs.

Rotary Square, a partnership between the Rotary Club of Tsawwassen and Century Group, was developed as part of the Oliva project and provides a peaceful outdoor environment through the week and entertainment on weekends with various community events.

Oliva is located within walking and biking distance of the numerous amenities offered in the town centre. For adventures out of town, Century Group and the Co-operative Auto Network partnered to provide a car share program to the residents of Oliva.

LEED SCORE CARD

<table>
<thead>
<tr>
<th>Category</th>
<th>Rating</th>
<th>Points</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>Sustainable Sites</td>
<td>1.5</td>
<td>3.5</td>
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<tr>
<td>Water Efficiency</td>
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<td>1.5</td>
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<tr>
<td>Innovation &amp; Design</td>
<td>2.5</td>
<td>2.5</td>
<td>3.0</td>
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</tbody>
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OLIVA - Tsawwassen, Delta, BC
Owner/Developer: Century Group
Architect: Peter J. Dandyk Architect Inc.
LEED Consultant: Recollective
Contractor: Gauvin 2000 Construction Ltd.
Structural Engineer: Walter Smith Bowers
Mechanical Engineer: Bycar Engineering Ltd.
Landscape Architect: Durante Kreuk Ltd.
Interior Designer: Portico Design Group
Commissioning Agent: K. D. Engineering (TBC) Co.
Civil Engineer: Vector Engineering

As a developer, Century Group has focused on rethinking the conventional residential development. We build to LEED standards, ever mindful of the massive amounts of waste generated and resources used by our industry, and we are trying to lessen it. At every opportunity we seek out more efficiency – in energy, waste and building materials.

At Century Group we believe it is our responsibility to take leadership in building better communities - walkable streets, energy efficiency and respect for the environment are foremost in our thinking.
<table>
<thead>
<tr>
<th>Year</th>
<th>Buildings</th>
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<tr>
<td>2008</td>
<td>225 King Street West</td>
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<tr>
<td></td>
<td>CoreLife Maple Ridge</td>
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<tr>
<td></td>
<td>Regina Taxation Building</td>
</tr>
<tr>
<td></td>
<td>SAS Institute Canada Inc.</td>
</tr>
<tr>
<td></td>
<td>Tekion Furniture Systems Ottoman Showroom</td>
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<tr>
<td></td>
<td>Enermodal Engineering Ltd.</td>
</tr>
<tr>
<td></td>
<td>Kasian Architecture Interior Design and Planning</td>
</tr>
<tr>
<td></td>
<td>Baird Sampson Neuert Architects</td>
</tr>
<tr>
<td></td>
<td>Minto Group Inc.</td>
</tr>
<tr>
<td></td>
<td>Toronto Federal Judicial Centre</td>
</tr>
<tr>
<td>2007</td>
<td>Alvin Hamilton Building</td>
</tr>
<tr>
<td></td>
<td>Brock University Plaza 2006</td>
</tr>
<tr>
<td></td>
<td>Callaghan Letelier Wiens Gibbons</td>
</tr>
<tr>
<td></td>
<td>MCW Consultants Ltd.</td>
</tr>
<tr>
<td></td>
<td>École secondaire Jeanne sans frontières</td>
</tr>
<tr>
<td></td>
<td>Envision Credit Union - Chilliwack City</td>
</tr>
<tr>
<td></td>
<td>MSV Presentation Centre</td>
</tr>
<tr>
<td></td>
<td>Covus Esamy - Integrated Design</td>
</tr>
<tr>
<td></td>
<td>Pavillon Des Sciences Biologiques</td>
</tr>
<tr>
<td></td>
<td>The Hazel McCallion Academic Learning Centre</td>
</tr>
<tr>
<td></td>
<td>Township of Langley Civic Facility</td>
</tr>
<tr>
<td></td>
<td>Livingstone County Administration Building</td>
</tr>
<tr>
<td></td>
<td>Enermodal Engineering Ltd.</td>
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<tr>
<td>2006</td>
<td>Department of Natural Resources - Bathurst District Office</td>
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<tr>
<td></td>
<td>Heritage Woods Secondary School</td>
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<tr>
<td></td>
<td>The George and Kathy Dombroski Centre for Horticulture</td>
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<td>Thomas L. Wells Public School</td>
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**LEED SILVER**

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<td>1255 McGill College</td>
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<td></td>
<td>First Capital-S-St-David West-Bidg 3-ph1</td>
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<tr>
<td></td>
<td>Morganside Crossing</td>
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<tr>
<td></td>
<td>Westney Heights</td>
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<td>Canada Green Building Council Ottawa Office</td>
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<td>David Bradley Athletics Centre at McMaster University</td>
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<tr>
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<td>Kasian Toronto Office</td>
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<td>Les Condes Wellington</td>
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**2007**

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Location</th>
<th>Design Firm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Challenger Motor Freight Corporate Headquarters</td>
<td>Cambridge, Ontario</td>
<td>Enermodal Engineering Ltd.</td>
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<tr>
<td>Chiefs &amp; Petty Officers’ and Officers’ Facility</td>
<td>Halifax, Nova Scotia</td>
<td>WHW Architects Inc.</td>
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<tr>
<td>Envision Credit Union Limited - Mississauga Branch</td>
<td>Mississauga, Ontario</td>
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<td>Glenmore Water Filter Station Renovation</td>
<td>Calgary, Alberta</td>
<td>WHW Architects Inc.</td>
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<td>Le supermarché IGA de Saint-Pascal-de-Kamouraska</td>
<td>St-Pascal-de-Kamouraska, Quebec</td>
<td>Blouin Tardif architecture + environment</td>
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<tr>
<td>Juno Tower, CFB Stadacona Project</td>
<td>Halifax, Nova Scotia</td>
<td>PCL Constructors Canada Inc.</td>
</tr>
<tr>
<td>Le Prince Hall at McMaster University</td>
<td>Hamilton, Ontario</td>
<td>Envision Credit Union Ltd.</td>
</tr>
<tr>
<td>Shell Centre</td>
<td>Calgary, Alberta</td>
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**2006**

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<tr>
<th>Project Name</th>
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<tr>
<td>Herman Miller Canada National Design Centre</td>
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<td>North Hill Home Depot</td>
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<td>WHW Architects Inc.</td>
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<tr>
<td>Ottawa Paramedic Service Headquarters</td>
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<td>St. Paul’s Hospital 9A Mental Health Unit</td>
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<tr>
<td>Tecni/Canpar Distribution Facility</td>
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**2005**

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<tr>
<th>Project Name</th>
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<tbody>
<tr>
<td>Bantiff Community School</td>
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<td>Coast Capital Savings Credit Union</td>
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<td>Crowfoot Library</td>
<td>Calgary, Alberta</td>
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</tr>
<tr>
<td>Envision Credit Union - Willoughby Branch</td>
<td>Calgary, Alberta</td>
<td>Enermodal Engineering Ltd.</td>
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<tr>
<td>Kerr Wood Langdale Head Office Interior</td>
<td>Burnaby, British Columbia</td>
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<tr>
<td>The Silva</td>
<td>North Vancouver, British Columbia</td>
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**2004**

<table>
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<td>Alberta Urban Municipalities Association Addition and Renovations</td>
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<td>Enermodal Engineering Ltd.</td>
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**SUSTAINABLE BENEFITS**

Precast concrete offers a number of benefits that make it environmentally friendly. Precast’s energy efficiency, recyclability, reusability, durability, minimal waste in the precast plant and on the jobsite and the use of fly ash, slag and other waste materials aid its environmental friendliness.

Precast offers thermal mass, a valuable element of building designs which help along with precast’s core benefits to aid in meeting LEED requirements.

For more information and your free Sustainable Precast Concrete CD:
Call CPCI at: 1-877-937-2724
Visit: www.cpci.ca
Contact CPCI at: info@cpci.ca
Contact your local CPCI member at: www.precastresearch.com

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**LEED CERTIFIED**

**2005**

<table>
<thead>
<tr>
<th>Project Name</th>
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<tr>
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<td>Halifax, Nova Scotia</td>
<td>PCL Constructors Canada Inc.</td>
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</tbody>
</table>
| PCL Constructors Canada Inc. and WHW Architects Inc. were the design build team on the Juno Tower, CFB Stadacona project in Halifax. This outstanding building was the first LEED certified project in Nova Scotia and received the following awards:

- Canadian Design Build Award, 2006 - Canadian Design Build Institute.
- Medal of Excellence, 2005 - The Lieutenant Governor’s Award for Architecture.

Reasons to choose MCT

• low initial cost
  best in class life cycle cost

• no initial waxing
  MCT is occupancy ready

• best indoor environmental performance
  passes California CHPS 01350 for indoor air quality

• best environmental profile
  most independent LCA-based environmental certifications

• best flooring performance
  low maintenance, high durability

affordability + sustainability
MCT with Forboshield
marmoleum® composition tile
certified sustainable tile