

## REPRESENTATIVE PROJECTS

### Innovative Design and Analysis

#### **Calgary South Health Campus, Calgary AB**

A LEED® Silver Project (under final construction).  
Largest LEED® Canada project to date (180,000 sm).  
Energy engineering and simulation addressing all aspects of the architectural and building systems.

#### **Life Sciences Centre, University of BC, Vancouver BC**

A CBIP and LEED® Gold Project.  
BOMA Earth Award, 2005.  
Design facilitation and engineering addressing all aspects of energy performance of the architectural and building systems.

#### **Surrey District Education and Conference Centre, Surrey BC**

A LEED® Gold Project.  
Energy engineering and simulation addressing all aspects of the architectural and building systems, including geothermal heating and cooling.

#### **University College of the North, Thompson MB**

A LEED® Gold Project.  
Energy engineering and simulation addressing all aspects of the architectural and building systems.

#### **Broadway Technology Centre, Vancouver BC**

LEED® Silver and Gold  
Energy engineering and simulation addressing all aspects of energy performance of the architectural and building systems of a multi-building office complex.

#### **Government of Canada Building, Yellowknife, NT**

A LEED® Silver Project.  
Canadian Poster Project Entry, International Green Building Challenge, 2005.  
Design facilitation and engineering addressing all aspects of energy performance of the architectural and building systems.

#### **Central Alberta Cancer Centre, Red Deer AB**

LEED® Silver (under construction)  
LEED® consulting and coordination.

#### **Watson Lake Hospital, Watson Lake YK**

LEED® Silver (under construction)  
LEED® consulting and coordination.

#### **Red River Community College Downtown Campus, Winnipeg MB**

A CANMET C-2000/CBIP Project.  
One of three Canadian Entries in the International Green Building Challenge, 2002.  
Design facilitation and engineering under the C-2000 and CBIP programs, addressing all aspects of energy, environmental and functional

performance of the architectural and building systems of a redevelopment of a historical site.

#### **Mayo School, Mayo YT**

A CANMET C-2000/CBIP Project.  
One of three Canadian Entries in the International Green Building Challenge, 2002.  
Design facilitation and engineering under the C-2000 and CBIP programs, addressing all aspects of energy, environmental and functional performance of the architectural and building systems.

#### **Yukon Energy Corporation Head Office, Whitehorse YT**

A CANMET C-2000/CBIP Project.  
Canadian National Energy Efficiency Award, 1999.  
Design facilitation and engineering under the C-2000 and CBIP programs, addressing all aspects of energy, environmental and functional performance of the architectural and building systems.

#### **Alice Turner Public Library, Saskatoon SK**

A CANMET C-2000/CBIP Project.  
Finalist, Canadian National Energy Efficiency Award, 1999.  
Design facilitation and engineering under the C-2000 program, addressing all aspects of energy, environmental and functional performance of the architectural and building systems.

#### **Building 8, Crestwood Commercial Park, Richmond BC**

A CANMET C-2000 Demonstration Project.  
Finalist, Canadian National Energy Efficiency Award, 1999.  
BC Hydro Award of Excellence, 1996.  
Conceptualization, design development, and energy optimization of advanced-technology architectural and building systems for an office complex.

#### **Canada Games Centre, Whitehorse, YK**

A CBIP Project.  
Design facilitation and engineering under CBIP, addressing all aspects of energy performance of the architectural and building systems including innovative integrated ice plant and HVAC systems.

#### **John G. Diefenbaker Air Terminal, Saskatoon SK**

A CANMET C-2000/CBIP Project.  
Design facilitation and engineering under CBIP, addressing all aspects of energy performance of the architectural and building systems including post-design C-2000 evaluation.

## **College of Kinesiology, University of Saskatchewan, Saskatoon SK.**

A CBIP Project.

Design facilitation and engineering addressing all aspects of energy performance of the architectural and building systems.

## **Richmond City Hall, Richmond BC**

A CBIP project.

Design facilitation and engineering addressing all aspects of energy performance of the architectural and building systems of a high tech office and call centre.

## **Grandin Green Condominium Complex, Edmonton AB**

A CMHC/CBIP Project.

Energy and environmental engineering of a "green" high-rise housing complex under the CBIP program.

## **Agriculture Canada PARC Research Facility, Agassiz BC**

Expert review and concept design of a groundwater heat pump system utilizing Aquifer Thermal Energy Storage (ATES) (under construction)

## **Boeing of Canada, Murray Park Plant, Winnipeg MB**

Conceptualization, design development and energy optimization of largest groundwater heat pump HVAC system in North America at time of installation.

## **NRC Science Place Canada, Winnipeg MB**

Passive solar design and general energy optimization of building systems. First major project in Canada to utilize DOE computer energy simulation.

## **Keystone Centre Expansion, Brandon MB**

Design of mechanical systems and energy-efficient ice plant for the largest combined multi-use sports, convention and agri-expo complex in Canada, including the first supercharged ammonia heat recovery ice plant designed and installed in Canada.

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## **Energy Auditing and Energy Conservation Retrofits**

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### **City of Saskatoon Pilot EPC Projects, Saskatoon SK**

Technical, financial, and contractual advisory services to the City of Saskatoon for a pilot EPC project for five recreational facilities.

### **Thompson General Hospital, Thompson MB**

### **Regina Public School District EPC, Regina SK**

### **Brandon General Hospital, Winnipeg MB**

### **Concordia General Hospital, Winnipeg MB**

### **Price Waterhouse Building, Vancouver BC**

### **Fairview Centre Office Complex, Vancouver BC Prime Capital Building, Vancouver BC**

### **Fairview Point Office Tower, Vancouver BC**

### **Department of National Defence Base, North Bay ON**

### **Department of National Defence Base, Cold Lake AB**

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## **Geothermal and Other Alternative Energy Projects**

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### **Surrey District Education and Conference Centre, Surrey BC**

Groundsource heat pump system.

### **South Okanagan Secondary School, Kelowna BC**

Groundwater heat pump system.

### **Adams Road Elementary School, Surrey BC**

Groundsource heat pump system.

### **Heritage Mountain Middle School, Coquitlam BC**

Groundsource heat pump system.

### **Agriculture Canada PARC Facility, Agassiz BC**

Groundwater heat pump with ATES.

### **Bristol Aerospace Plant, Winnipeg MB**

Groundwater heat pump.

### **Boeing of Canada, Murray Park Plant, Winnipeg MB**

Groundwater heat pump.

### **Concordia Hospital, Winnipeg MB**

Groundwater heat pump.

### **Over 20 Public Schools, Manitoba, Ontario and BC**

Groundwater and groundsource heat pumps.

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## **Specialized Projects**

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### **Green Building Challenge, SBTool**

Ongoing development of energy and environmental performance assessment criteria for an international competition and showcase of sustainable building projects.

### **Green Globes ANSI Standard**

Development and technical review of energy and environmental performance assessment criteria for the Green Globes ANSI standard.

### **BEPAC**

Pilot testing, final development and national implementation of the Building Environmental Performance Assessment Criteria program for commercial buildings. National and BC sponsors.