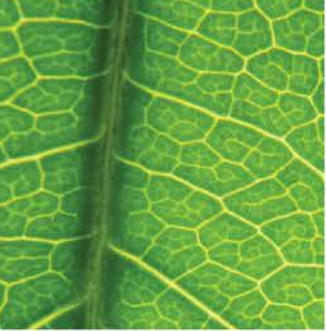


What's new in green building?



February 25, 2014



About the Alberta Chapter-CaGBC

Our mission guides our work:

Lead and accelerate the transformation to high-performing, healthy green buildings, homes and communities throughout Alberta.

Our Vision

A transformed built environment leading to a sustainable future.

The Council will work to:

- change industry standards,
- develop best design practices and guidelines;
- advocate for green buildings, and
- develop educational tools to support its members in implementing sustainable design and construction practices.

LEED in Canada 2013

YUKON
Pop: 37.8 thousand

1
LEED project certified in 2013

0.32 million
Sq. ft certified in 2013

0.86
Sq. ft certified per person in 2013

BRITISH COLUMBIA
Pop: 4.58 million

87
LEED projects certified in 2013

7.3 million
Sq. ft certified in 2013

1.66
Sq. ft certified per person in 2013

ALBERTA
Pop: 4.02 million

78
LEED projects certified in 2013

13.3 million
Sq. ft certified in 2013

3.3
Sq. ft certified per person in 2013

SASKATCHEWAN
Pop: 1.11 million

8
LEED projects certified in 2013

0.52 million
Sq. ft certified in 2013

0.47
Sq. ft certified per person in 2013

MANITOBA
Pop: 1.27 million

21
LEED projects certified in 2013

0.89 million
Sq. ft certified in 2013

0.71
Sq. ft certified per person in 2013

QUEBEC
Pop: 8.55 million

121
LEED projects certified in 2013

9.96 million
Sq. ft certified in 2013

1.22
Sq. ft certified per person in 2013

ATLANTIC
Pop: 2.37million

36
LEED projects certified in 2013

2.58 million
Sq. ft certified in 2013

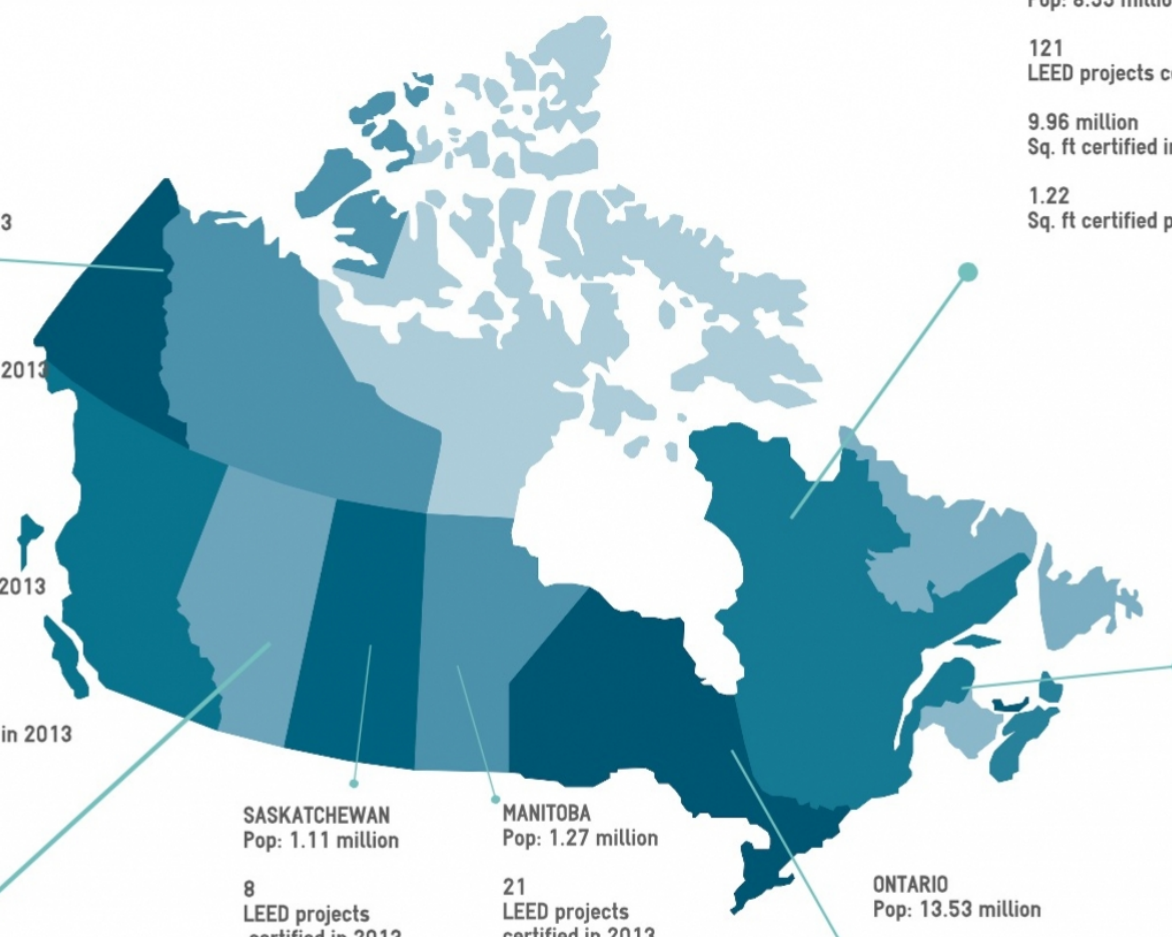
1.09
Sq. ft certified per person in 2013

ONTARIO
Pop: 13.53 million

221
LEED projects certified in 2013

31 million
Sq. ft certified in 2013

2.29
Sq. ft certified per person in 2013



DECEMBER 2013: FIRST SNOW IN EGYPT IN 112 YEARS.



CLIMATE CHANGED.



**ENERGY
USE**

24%* -50%**

**CO₂
EMISSIONS**

33%*** -39%**

**WATER
USE**

40%**

**SOLID
WASTE**

70%**

Green Buildings Can Reduce...

* Turner, C. & Frankel, M. (2008). Energy performance of LEED for New Construction buildings: Final report.

** Kats, G. (2003). The Costs and Financial Benefits of Green Building: A Report to California's Sustainable Building Task Force.

*** GSA Public Buildings Service (2008). Assessing green building performance: A post occupancy evaluation of 12 GSA buildings.



Green Building... What is it?

Minimizes negative impacts related to a Triple Bottom Line:

People (social), Planet (environmental), Profit (economic)





LEED Canada

Leadership in **E**nergy and **E**nvironmental **D**esign

- **Green building rating system;** third-party certification
- Developed by the **US Green Building Council** (USGBC)
- Adapted for Canada by the **Canada Green Building Council** (CaGBC)
- LEED rating systems have traditionally focused on:
 - sustainable site development, water efficiency, energy efficiency, materials selection, and indoor environmental quality



Qualities of LEED

Third-Party

Unbiased

Voluntary

Recognizes Leadership

International – 147 countries

Recognized

Design, Construction & Operation

Full scope



Levels of Certification



Certified



Silver



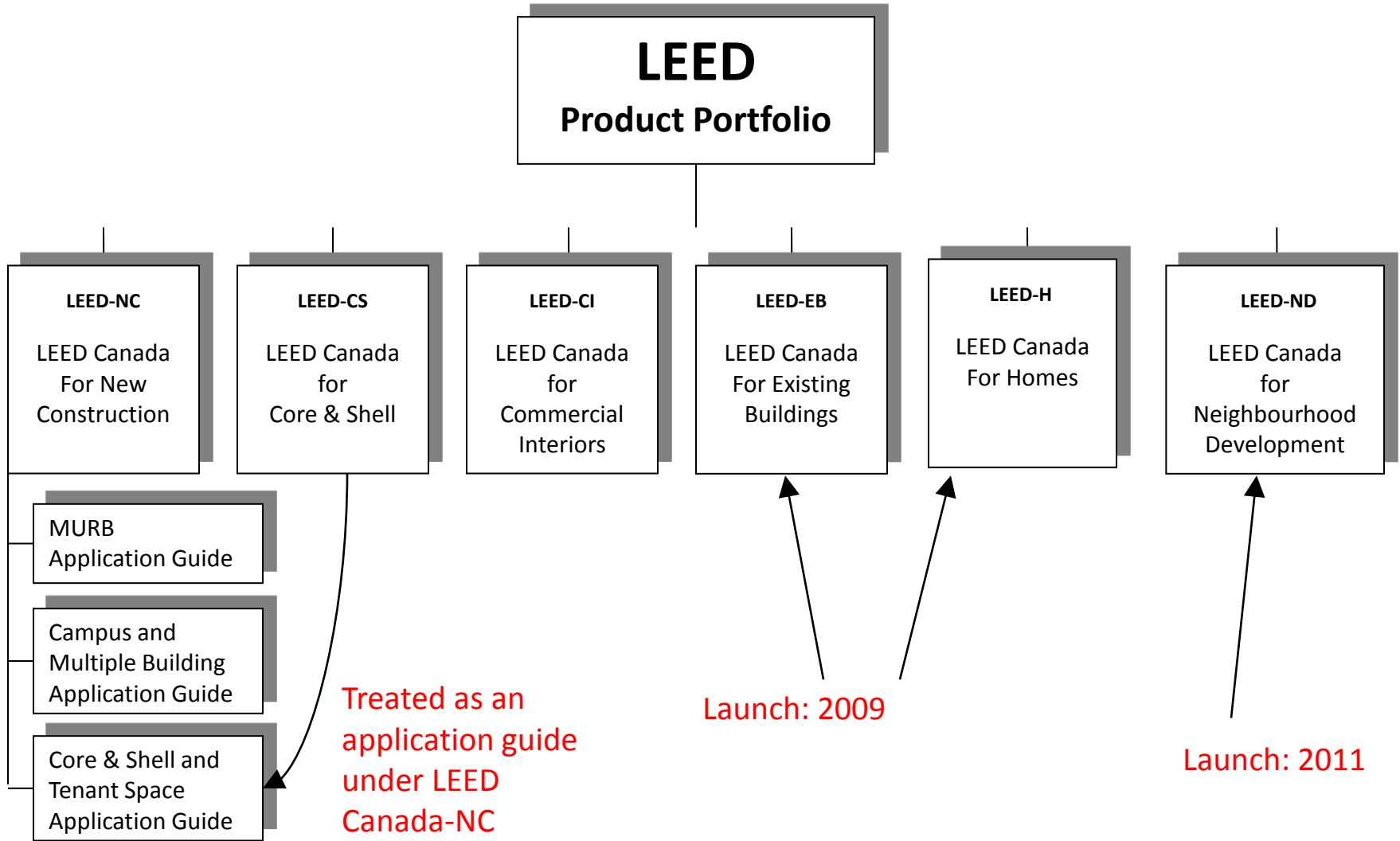
Gold



Platinum

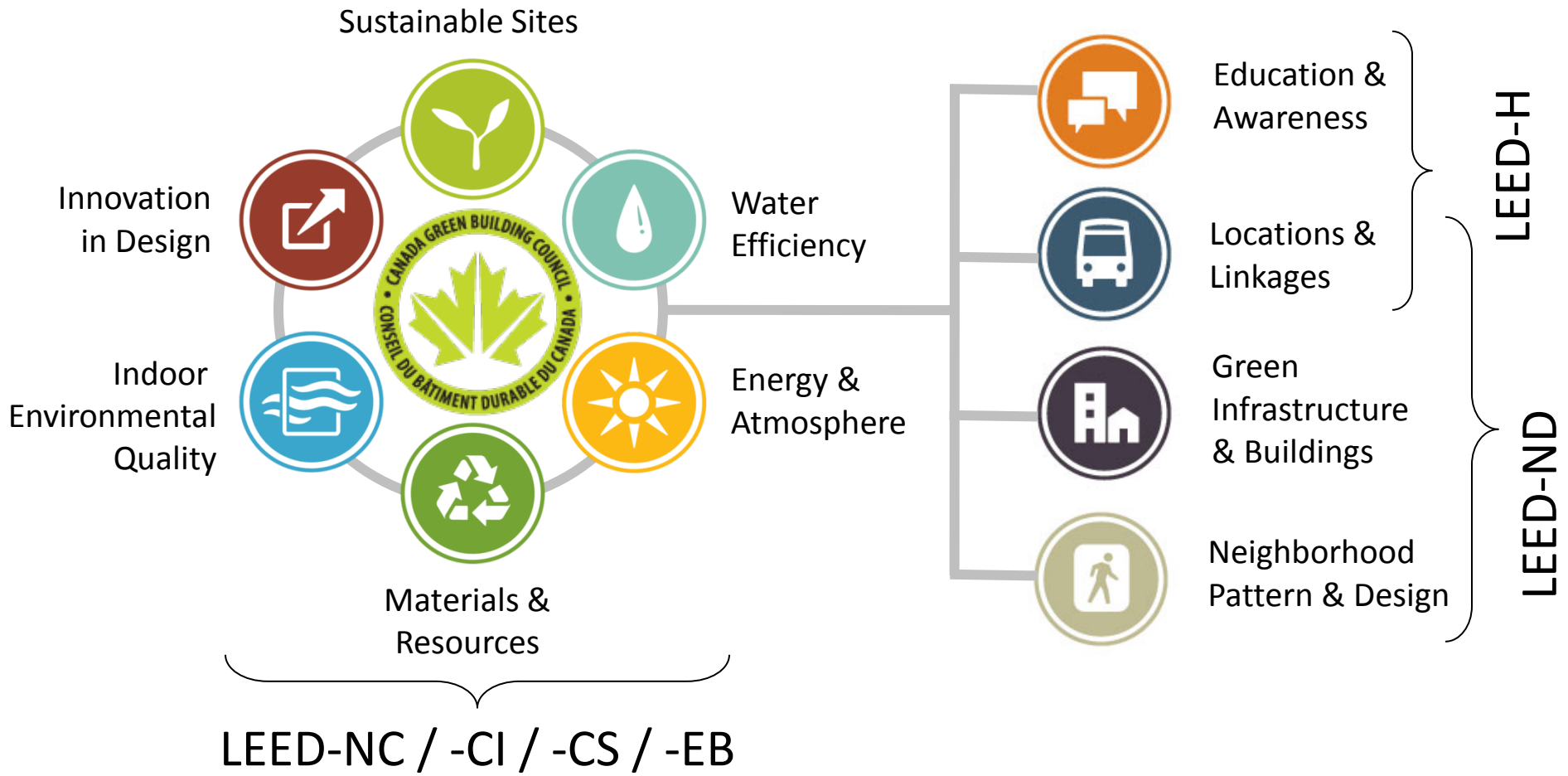


Today





Organization of LEED





Products & Materials that may contribute to LEED Credits

- Site Materials & Roofing
- Building Envelope
- HVAC & Mechanical
- Lighting
- Landscape Irrigation & Plumbing
- Building Materials
- Cleaning Products
- Furniture





LEED
v4



LEED v4 TECHNICAL IMPROVEMENTS: MATERIALS & RESOURCES

1. Building and material re-use

2. Transparency and optimization

- Whole-building LCA

- EPDs

- Resource extraction

- Material ingredients

3. Waste Management

Building Life Cycle Impact Reduction

BPDO — Environmental Product
Declarations

BPDO — Sourcing of Raw Materials

BPDO — Material Ingredients

Construction and demolition waste
management



Key dates

- Intro to LEED v4
 - March 11 – Edmonton
 - March 19 – Calgary
- LEED v4 launch November 2013
 - Regional Priority Credits embedded from launch
- Canadian ACPs announced June 2014
- v2009 will remain open until June 2015



CHANGE & CHALLENGE OPPORTUNITY

CALGARY BMO Centre

May 6, 2014 • 7:30 a.m. - 6:00 p.m.

A 'must attend' event for building owners and operators, architects, engineers, planners, builders, green product suppliers, and planning and building policy makers.

25 speakers offer lots of choice.

Introduction to the LEED™ v4 Rating Systems

This workshop offers participants an overview of LEED™ v4 and its impact in Canada.

Fees start from:
\$95 plus GST

March 11
8:30 am - noon
EDMONTON

March 19
1:00 - 4:30 pm
CALGARY

April 15
1:00 - 4:30 pm
CALGARY

April 22
12:30 - 4:00 pm
EDMONTON

For full details check out
abcgbc.org

**REGISTER at asbs2014.ca
before April 14 and save!**

Eligible for continuing education credits for most professional organizations including GBCI hours.

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Together, We'll Make Every Building Greener.

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Courtesy of USI



Learn more!



ALBERTA

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