



Buy Green New Brunswick



April 19, 2011



About the CaGBC

- **Our mission guides our work:**
Lead and accelerate the transformation to high-performing, healthy green buildings, homes and communities throughout Canada.
- **Our Vision**
A transformed built environment leading to a sustainable future



About the CaGBC

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.



About the CaGBC

- Over 2300 Corporate Members
- (Largest National Green Building Organization in Canada):
 - Professional firms,
 - Retail, Construction and Products),
 - Real Estate, Managers, Owners,
 - Academia, Research, Policy
 - Non- Profit Organizations
 - Utilities
 - Financial Services and Support Services



About the CaGBC

- Over 10,000 LEED Accredited Professionals in Canada
- Over 250 million sq.ft of Green Building Space in Canada (LEED/GREEN UP, HOMES)

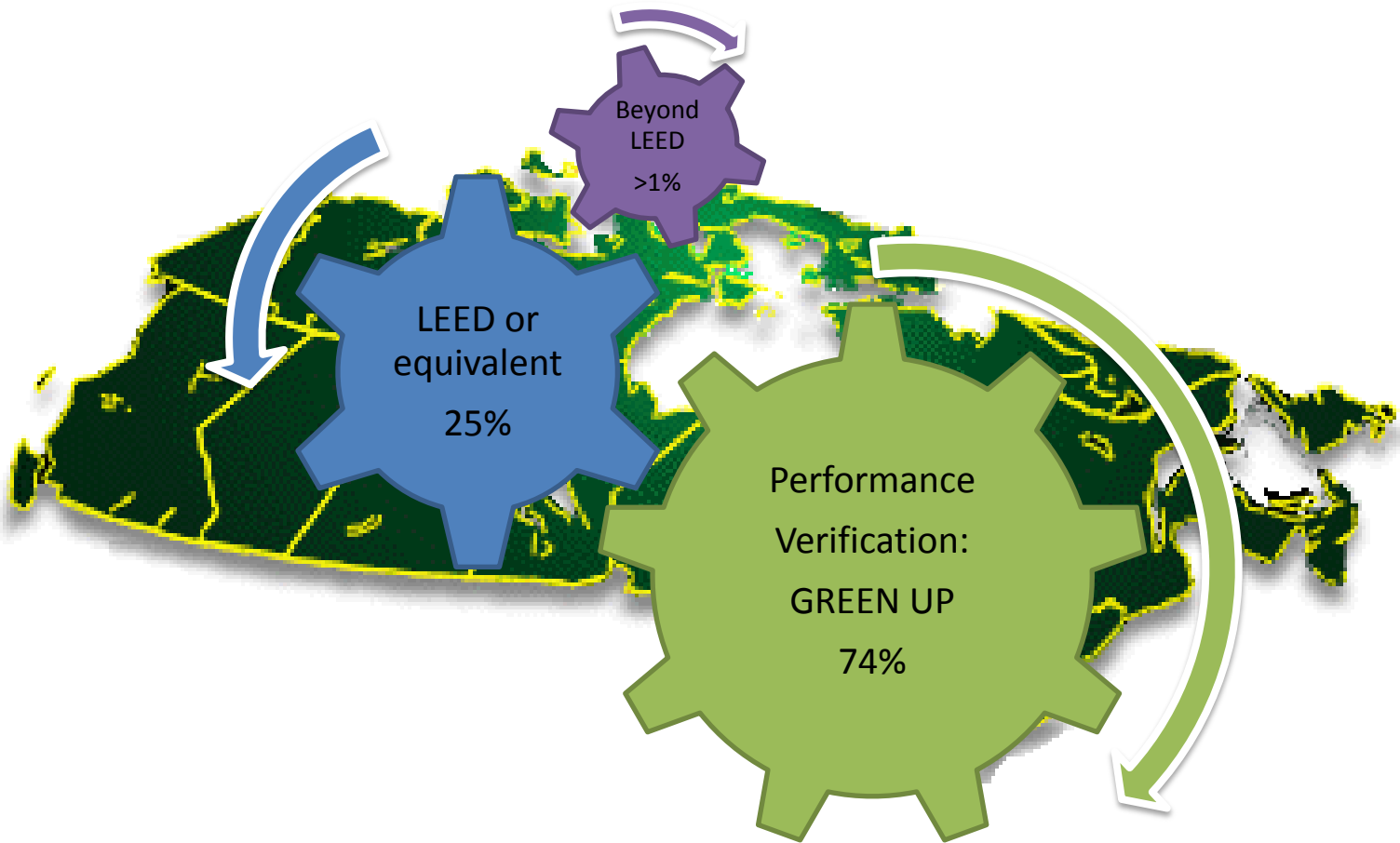


Canadian Landscape

- Buildings are responsible for:
- 33 percent of all secondary energy used
- 35 percent of greenhouse gases emitted
- 50 percent of natural resources consumed
- 12 percent of non-industrial water used
- 25 percent of landfill waste generated
- 10 percent of airborne particulates produced



Green Capacity in Canada





LEED Canada

Leadership in Energy and Environmental Design

- 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



LEED Canada Rating Systems

Current:

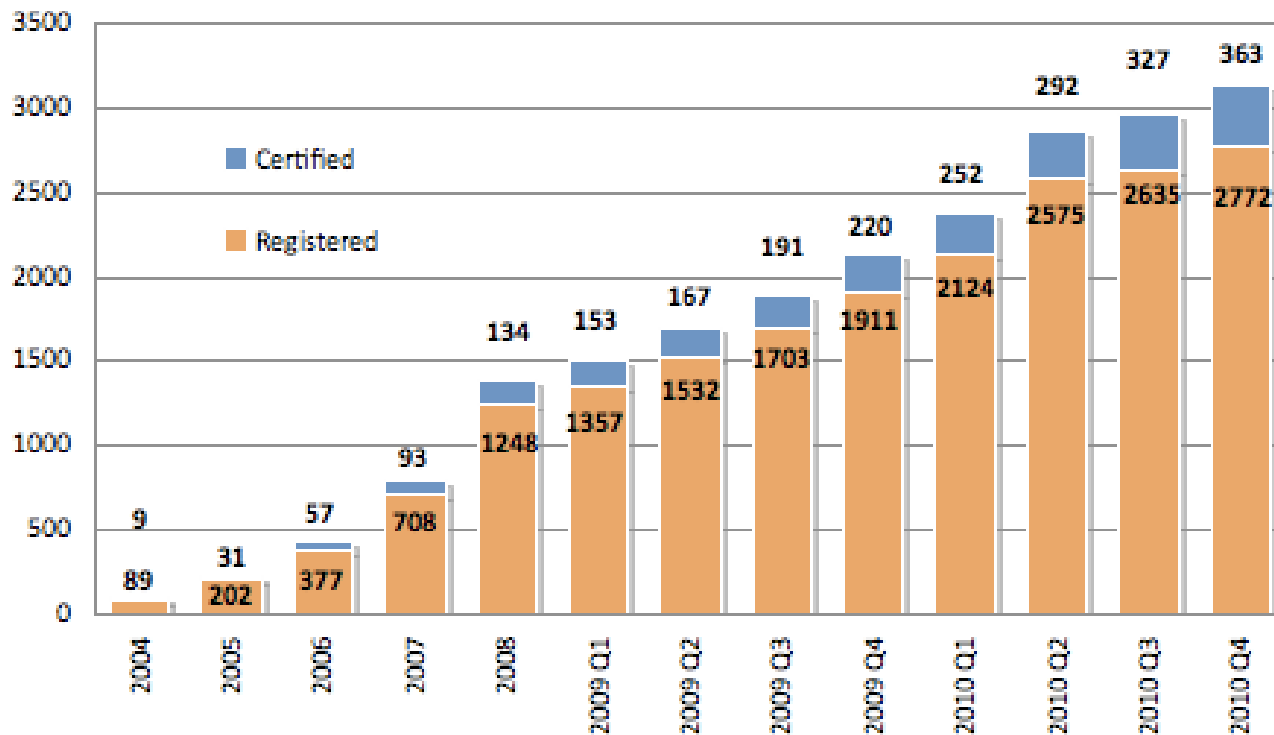
- LEED Canada for New Construction and Major Renovations 2009
- LEED Canada for Core & Shell (LEED NC adaptation 2007)
- LEED Canada for Commercial Interiors (LEED CI 2006)
- LEED Canada for Homes
- LEED Canada for Existing Buildings: Operations and Maintenance

Under development

- LEED Canada for Neighbourhood Developments (2011)

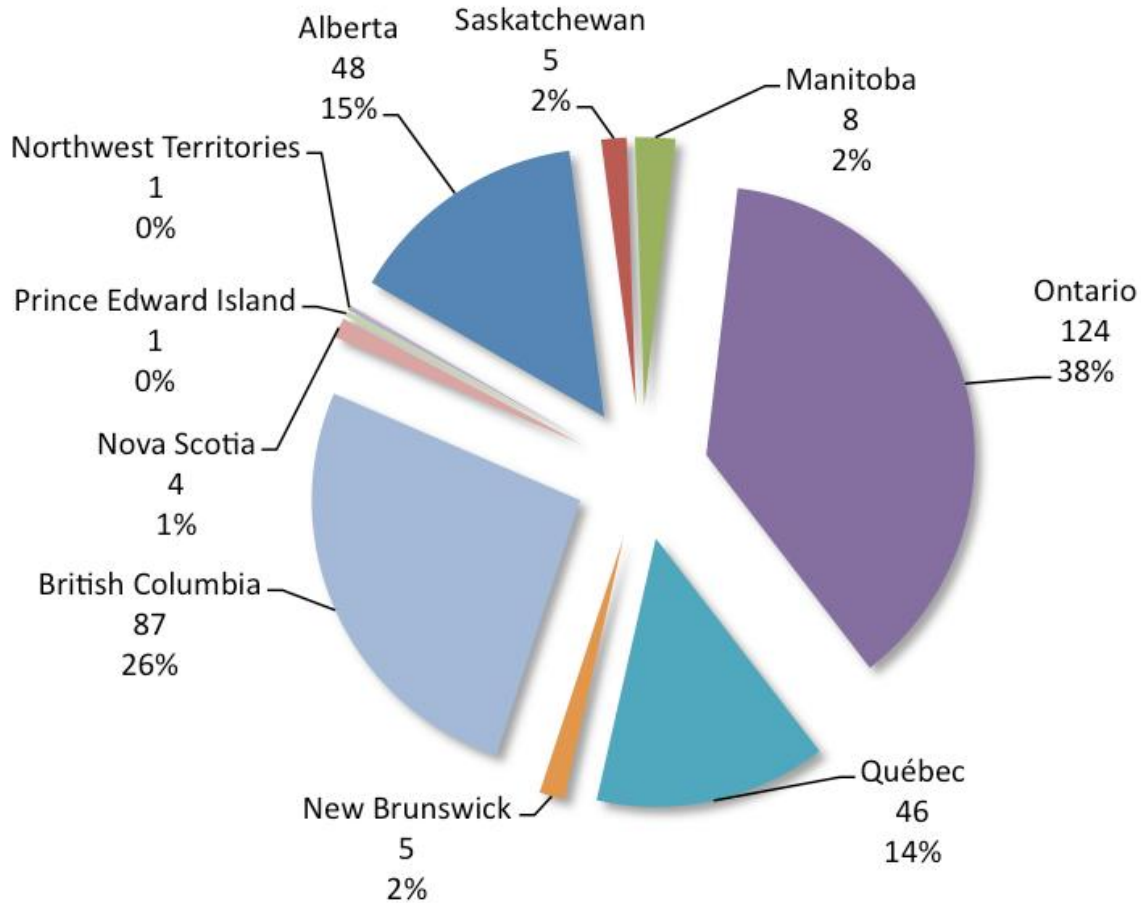


LEED® Project Registrations & Certifications



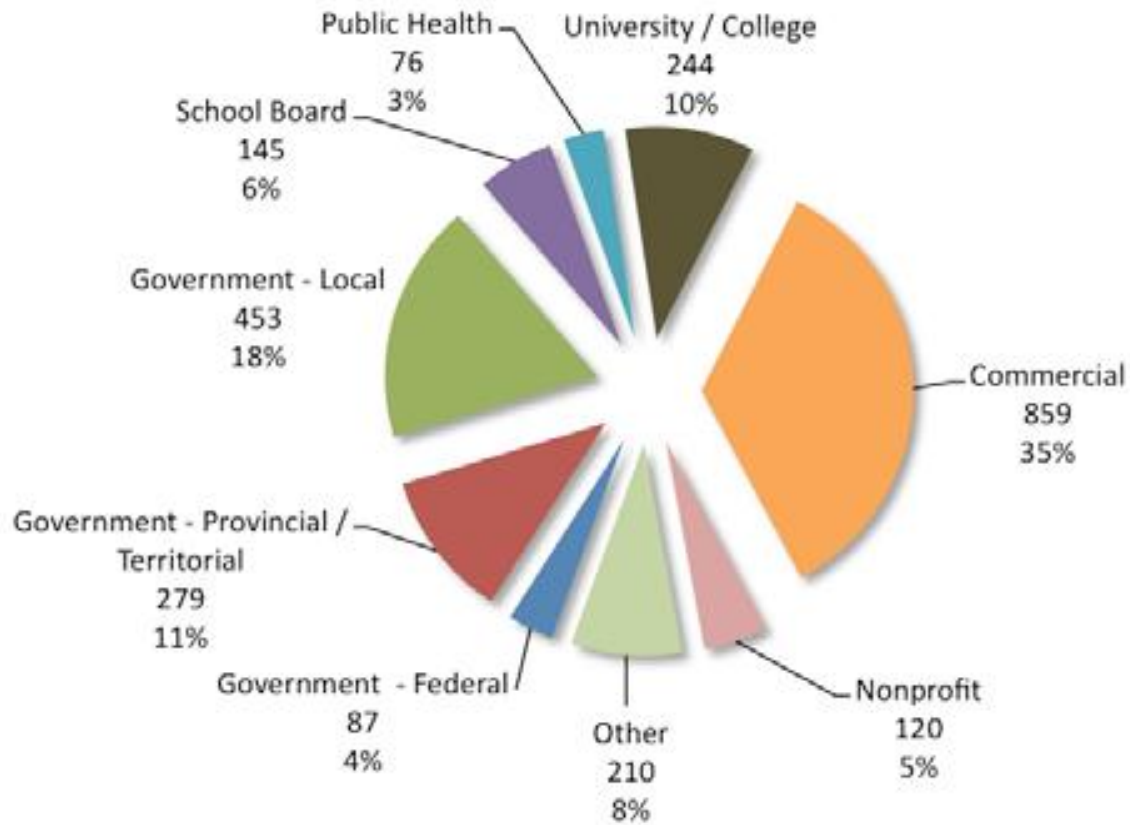


LEED® Certifications by Province Except Homes/ND*



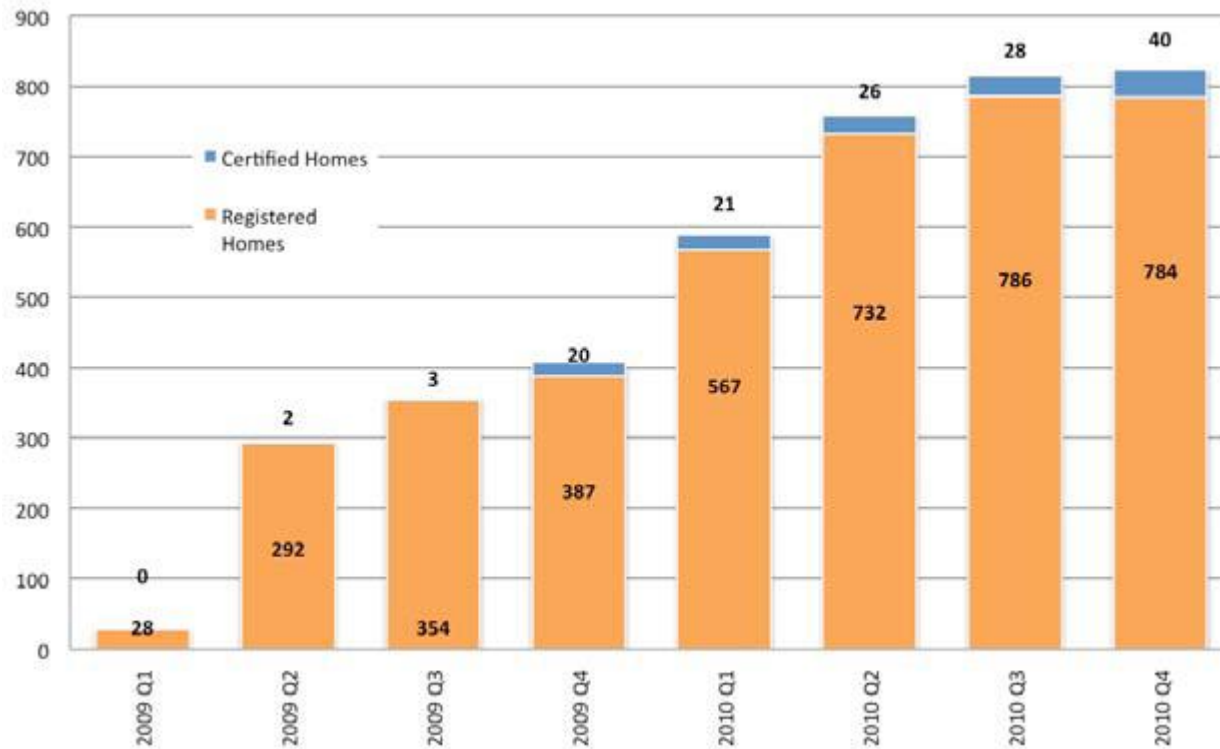


LEED® Canada Registered/Certified Projects by Owner Type





LEED Canada for Homes Registered & Certified Homes, Cumulative





Why Sustainable Design?

- It makes economic sense. Its about asset management, improving return on investment, lowering life cycle costs and limiting liability.
- Green buildings are; healthier, cost less, are more productive better places to be in, use less toxic materials and have a lower environmental impact. Who doesn't want this?
- Canada among the most wasteful nations in terms of energy consumption, water use & waste generation.
- If everyone used as much as the average Canadian, we'd need 4 more planets like Earth to generate resources & absorb waste
- Buildings have a dramatic impact on these environmental factors.



Building Industry

- Traditional building construction consumes:
 - 40% of the world's total energy use,
 - 30% of raw material consumption,
 - 25% of the timber harvest,
 - 35% of the world's CO₂ emissions,
 - 16% of the fresh water used,
 - 40% of municipal solid waste destined for local landfills, and
 - 50% of the ozone-depleting CFCs.



Professional Accreditation

LEED accredited Professionals

- Nova Scotia – 151
- Newfoundland and Labrador – 10
- Prince Edward Island – 5
- New Brunswick – 58

Total – 225 up from 194 since September 2009.

Jan 1, 2010 Move to LEED Green Associate through GBCI. Numbers of LEED GAs in Atlantic Canada are not yet available.



LEED Registered Projects

LEED Registered Projects (Sept 2010)

- Nova Scotia – 78, up from 48 last September.
 - Newfoundland and Labrador – 29, up from 8 last year
 - Prince Edward Island – 4, up from 2 last year
 - New Brunswick – 36, up from 29 last year
- Total – 147, up from 89 last year



LEED Certified Projects

LEED Certified Projects

- New Brunswick – 5, two new certification this year.
- Nova Scotia – 4, one new certification in 2009,
- Newfoundland and Labrador – 0
- Prince Edward Island – 0
- **Total – 9**, up from 6 last year
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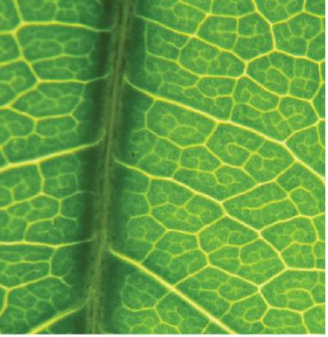
Sustainable Design Strategies

- Optimize building orientation
- Use passive systems
- Use daylight
- Build smaller
- Integrate planning & design
- Eliminate dropped ceilings
- Leave floor slabs exposed
- Avoid over-design
- Optimize material use by standard dimensions
- Conserve water



Sustainable Design Strategies

- Minimize paved surfaces
- Avoid cut-and-fill
- Protect existing vegetation
- Use native plants
- Integrated energy design
- Don't run ducts to exterior walls
- Minimize outdoor lights
- Use salvaged materials
- Use structural materials as finish materials
- Recycle construction wastes



Thank You.