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Canada Green Building Council
Every Building Greener



LEED Technical Bulletin

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[Version française](#)

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Registration process for LEED v4

Registration for LEED v4 is straightforward. To start, simply register the project through the [CaGBC's website](#) as you would normally, selecting the LEED v4 rating system that applies to your project. For additional information on the many rating systems available, please see the [LEED v4 Rating System Selection Guidance](#).

Organizations that are CaGBC Member Specialists benefit from reduced registration fees. Rates remain unchanged for LEED v4 and are charged in Canadian dollars.

Following registration, teams will be provided instructions for creating their free project profile in LEED Online, a platform that helps teams coordinate and expedite the documentation and certification processes.

The CaGBC is happy to provide LEED v4 project teams all the support they need. Our customer service team will be happy to answer any technical, administrative or other questions; they can be reached at info@cagbc.org or 1-866-941-1184. For additional information about LEED v4 certification, please consult our web site at www.cagbc.org/LEEDv4.

Projects registered for LEED Canada 2009 (or v1 for Commercial Interiors) can upgrade to LEED v4 at no cost; please contact info@cagbc.org for details.

**Reminder:
Registration
for LEED
Canada 2009
closes
October 31,
2016**

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Seeking Top Talent from Across the Country

Providing timely, high quality LEED certification and ensuring the continued evolution of the LEED program requires top technical staff. To help ensure this, the CaGBC continues to grow the LEED team and will be accepting applications from candidates requesting to work outside the Ottawa, Vancouver and Toronto offices. The LEED team is at the centre of the green building industry; there is no better place to see the breadth of innovative ideas or to contribute to the evolution of the industry. Currently we are looking for LEED Reviewers and Specialists, particularly with backgrounds in energy and engineering or materials. Details can be found on our [website](#).

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Projects Can Now Appeal Any Credit

The CaGBC has updated the LEED Canada certification process to allow project teams to appeal any credit, including those not attempted during either the first, second (for version 1.0 projects), or final review submissions. This includes newly attempted Innovation in Design or Innovation in Operations strategies. Previously, the CaGBC's certification process limited credit appeals to those that were attempted and denied during the certification review, with the exception of Green Power. This change is effective immediately.

Project teams are reminded that there is only one review performed for credits being appealed, and therefore the documentation presented in an appeal must be complete and comprehensive in order to ensure the best possible outcome. The LEED Canada Certification Process Manual has been updated to reflect this guidance, it can be found [here](#).

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Report demonstrates green buildings are an engine of economic growth in Canada

New CaGBC market impact report shows green building industry employed nearly 300,000 and generated \$23.45 billion in GDP in 2014 alone

A new [Canada Green Building Council \(CaGBC\)](#) and [The Delphi Group](#) report titled [Green Building in Canada: Assessing the Market Impacts & Opportunities](#), is detailing the wide economic impact that the green building industry has had in Canada over the past decade, including generating \$23.45 billion in GDP and representing 297,890 full-time jobs in 2014. This represents more jobs than Canada's oil and gas extraction, mining and forestry industries combined, which collectively employed approximately 270,450 workers in 2014.

Canada is a global leader in green building with [the highest number of LEED buildings per capita](#) in the world. The report finds, when indirect and induced contributions are included, the overall economic impact of Canada's LEED projects certified from 2005 – 2015 will lead to \$128 billion in gross output over their lifetime, \$62.3 billion in total GDP, and create 701,700 jobs.

"This report showcases the impressive market transformation that is underway across the country in the green building and sustainability industries. By quantifying the significant economic value and growth of green building and LEED certification in Canada, we are demonstrating that green building is not just good for the environment, but it is also good for the economy," says Thomas Mueller, President and CEO of the Canada Green Building Council. "It is clear that Canada's current economy would benefit from increased investment in green building and sustainable infrastructure. We believe that a national, cross-sector strategy, led by industry and supported by all levels of government, could help further accelerate the

market transition toward an economy that benefits from reducing greenhouse gas emissions."

The market penetration of LEED certified buildings in Canada has been growing over the last decade, from 0.8 per cent across all asset classes for the period of 2004-2009, reaching 10.7 per cent for all new construction floor space (for the period of 2009 to 2014). Leading the way, 22 per cent of all new commercial buildings, and approximately 30 per cent of all new institutional buildings constructed in Canada over the last five years were LEED certified.

The [Green Building in Canada](#) report, sponsored by [Toronto and Region Conservation Authority \(TRCA\)](#), also makes a number of suggestions as to how to accelerate industry growth and maximize economic opportunities. Expansion in these areas will positively impact jobs and the economy, along with providing significant environmental, health and societal benefits.

- **Investing in Research and Innovation.** The construction sector in Canada ranks at the bottom of all industries in terms of its expenditures in research and development (R&D). Greater federal and provincial government support for green building on the research and innovation agenda would help, with both economic and export development.
- **Addressing the Gap between Building Design and Performance.** Benchmarking, reporting and disclosure, along with greater standardization of modeling building performance in Canada, would result in buildings with better end-use performance and enhanced environmental and business benefits.
- **Supporting Industry Training and Continuing Education.** Green building requires professional expertise and a better trained workforce. Investing in education and training, as well as the policy, regulatory, and incentive frameworks to support skills development and ongoing learning will be essential to industry growth.
- **Developing Supportive Policy and Incentives.** Closing the gap between the market leaders who have embraced green building and the bulk of the building industry, through a range of incentive and financing options, progressive policies and changes to building codes, is the key to long-term market transformation.

"Canada is on the brink of an economic transition and the green building industry will be an important part of that transition," says Paul Shorthouse, co-author of the report and Regional Director with The Delphi Group. "As the policy landscape shifts and lower-carbon products and services become the norm, green building represents a huge opportunity for Canada. We are hopeful that the report findings spur more interest in and greater support for the sector as we look to diversify Canada's economy and tap into the talent and expertise we have in this country."

The report was generated through extensive secondary research and literature review, 35 industry stakeholder interviews, and economic impact assessments quantifying GDP, job and industry strengths and capabilities. The full 94-page Green Building in Canada report [is available to members through the CaGBC](#). The Executive Summary [is free to the public](#). For details on CaGBC membership, [visit the website here](#).

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Changes in Leadership of LEED Committees

The LEED program could not reflect market needs and address the complex technical and market issues that arise without the invaluable support from the volunteers serving on our LEED committees. Leadership for these committees has recently changed, and we would like to take this opportunity to offer our deepest appreciation to all our volunteers.

LEED Canada Steering Committee is the senior committee providing policy, technical and market oversight of the LEED program in Canada. The Technical Advisory Groups (TAGs) provide technical guidance and are focused into three areas of expertise: Sites and Water, Energy and Engineering, and

Materials.

Incoming committee chairs:LEED Canada Steering Committee



Jennifer Sanguinetti, Director of Project Services, Infrastructure Development, University of British Columbia

Sites/Water TAG



Grant Peters, Manager of Green Building Services at Fluent Group Consulting Engineers

Energy & Engineering TAG



Jason Manikel, Energy Consultant with Energy Profiles

Materials TAG



Jamie McKay, Sustainability & Durability Building Consultant at Morrison Hershfield

Outgoing committee chairs:LEED Canada Steering Committee



Mark Lucuik, Director of Sustainability at Morrison Hershfield

Sites/Water TAG



Brenda Martens, Owner, aedify

Energy & Engineering TAG



Steve Kemp, Partner and Vice President of Buildings-Sustainability at MMM Group

Materials TAG



Sébastien Garon, Principal at SÉBASTIEN GARON | Architecture + Design

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CaGBC is looking for Canada's Green Building Product of the Year

Registration for the [2016 CaGBC Green Building Product of the Year Award](#) is now open. CaGBC initiated the Product of the Year award in 2016 to encourage Canadian companies to develop sustainable building products and materials in order to better support the green building industry.

Product submissions are assessed based on four key areas: sustainability, transparency and verification, innovation, and application. Full criteria can be found [by visiting the Award webpage](#).

The top three entrants will be profiled at [Building Lasting Change 2016](#), CaGBC's National Conference and Expo, taking place this year from June 6 to 8 at the Allstream Centre in Toronto. The winner will be presented with the award at the [Leadership Awards Gala](#) in Toronto on June 7, 2016, at the Liberty Grand Entertainment Complex. The winner also gains the right to use the CaGBC Product of the Year crest on its marketing materials and product website. This crest is only available to one winning project each year, making it an exclusive signifier of a truly green product.

Last year's winner, the [Enzo line of prefabricated modular building interiors by DIRTT Environmental Solutions](#), says winning the 2015 Award was invaluable to their product and their brand. "Winning the Green Building Product of the Year Award in 2015 opened doors for DIRTT and enhanced our reputation for transparency and sustainable design," says Andrée Iffrig, Leader-Sustainability for DIRTT. "We were thrilled about this recognition from our peers and reminded that we can't rest on our laurels. This CaGBC award speaks to the excellence of green product design and manufacturing in Canada, a fact worth celebrating."

The top three entrants of this year's Awards will also be promoted in the Fall 2016 issue of [SAB Magazine](#) and on the [CaGBC website](#).

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Education for LEED Practitioners

The CaGBC is pleased to offer these upcoming webinars designed for experienced LEED practitioners. Want to learn at your own pace? See a listing of some of CaGBC's on demand courses listed at the bottom of this article.

[Construction of the Building Envelope for a LEED v4 Homes Platinum Project](#) – Feb. 24 (1-2pm Eastern). Mike Reynolds of EcoHome will discuss how designing for passive heating and cooling is a critical component to building affordable high performance homes. He will talk about a super-efficient home that is an example of how homeowners on a budget can enjoy all of the benefits of green. This webinar will take participants step by step through the construction of a home that costs just \$1.39 a day to operate. Participants will be introduced to the basic design principles of passively heated and cooled homes, including home orientation, insulation, air tightness, ventilation and window selection. \$29 + tax for CaGBC members; \$39 + tax for non-members.

[Materials Matter: A Contractor's Experience with LEED V4 \(CaGBC Office Case Study\)](#)– Feb. 25 (1-2pm Eastern). Join Ledcor Construction Limited, the contractor for the CaGBC Vancouver office project, to learn more about the contractor's perspective on a project seeking LEED v4 certification. Participants will learn about their experience with LEED v4, with a focus on the new requirements and strategies for the categories pertaining to contractors. \$29 + tax for CaGBC members; \$39 + tax for non-members.

[A New Rating System for Midrise Residential Projects](#) – March 2 (1-2:30pm Eastern). Join Tyler Hermanson to find out how midrise residential buildings of up to 12 storeys can now pursue the LEED

BD&C: Multifamily Midrise rating system. You'll learn how LEED for Homes and Midrise differ from other rating systems; how key prerequisites and credits result in better homes; and how LEED v4 differs from the previous rating system. This webinar will also cover some of the new opportunities v4 provides. \$49+ tax for CaGBC members; \$59+tax for non-members.

[Energy Efficiency Strategies for a LEED V4 Homes Platinum Project](#) – March 23 (1-2pm Eastern). Mike Reynolds of EcoHome will discuss how designing for passive heating and cooling is a critical component of affordably building high performance homes. This webinar focuses on reducing energy demand through building envelopes, reduced interior loads and efficient heating infrastructure. Participants will also leave with a working knowledge of different heating systems, their costs and benefits. \$29+ tax for CaGBC members; \$39+tax for non-members.

[Commissioning Existing Buildings: A guide for facility owners and managers](#) – March 30 (1-2:30pm Eastern). Join Eric Chisholm of Halsall (part of WSP) to learn about the value and process for commissioning existing buildings to reduce facility cost, increase comfort, and manage risk. This session will help portfolio and building owners and managers make the business case, set timelines and allocate resources for a successful commissioning process that results in verified long-lasting savings. \$49+ tax for CaGBC members; \$59+tax for non-members.

On demand courses – available when and where you want to access them

- [Applying the NECB to LEED v4](#)
- [Declaring Environmental Impacts of Products: PCRs to EPDs](#)
- [How to Earn the New LCA Credit for Canadian LEED v4 Projects](#)
- [Introduction to the Canadian Alternative Compliance Paths \(ACPs\)](#)

CaGBC has lots of other webinars, on-demand courses and classroom-based education in store for the new year. Remember to visit our [course registration](#) and [on demand courses](#) webpages periodically to see an updated list of courses and events.

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Recent CIRs

Credit Interpretation Requests ruled on since the last LEED Technical Bulletin (December 16, 2015) are listed below. To view any of these CIRs, simply go to [CaGBC's CIR database](#) and search by CIR number. Note that CIRs can apply to multiple rating systems and versions - see the CIR rulings for more information.

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#	Rating System	Version	Credit Prerequisite	Subject
1245	EB:O&M	2009	Admin	Single Building Versus Multiple Buildings where the Connection is Underground
1261	BD+C	2009	Admin	Eligibility of project for LEED certification due to unique FTE and clarification on how to calculate FTE

1252	BD+C	2009	<i>Admin</i>	Clarification on metering requirement as noted in CIR 977
1256	EB:O&M	2009	EAp1	Can the definition of certifying professional for energy audits be expanded?
1259	BD+C	2009	EAc5	IPMVP Option B: Energy Conservation Measure Isolation
1257	BD+C	2009	SSc6.2	Source Reduction of TSS

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Updated CIRs

Credit Interpretation Requests can be superseded as new direction becomes available. When a CIR is superseded or otherwise updated, the CIR will be listed in the Technical Bulletin. Please see [CaGBC's CIR database](#) and search by CIR number to see the updated text.

#	Rating System	Version	Credit Prerequisite	Subject
970	CI, BD+C	1, 2009	IEQc4.4	Conformance of ULEF and NAF products and products containing melamine formaldehyde resins to EQc4.4 requirements/ Conformité des produits ULEF, NEF ou contenant des mélamines-formaldéhydes
1124	BD+C	2009	IEQc4.3	Ceramic and Porcelain Tiles / Carreaux de céramique et de porcelaine

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