

Canada
Green
Building
Council

Annual Review

CAGBC

20
21

a letter from the President and CEO

I'm pleased to share with you this annual report, which represents a snapshot of the Canada Green Building Council's 2021 achievements. As always, it is a challenge to condense the efforts of our team, members, sponsors, volunteers, and stakeholders into just a few pages. After all, we are working toward some significant goals, including the complete decarbonization of Canada's building sector.

Guided by the Council's strategic priorities, we continued to focus on our four key pillars: green building, zero carbon, retrofits, and workforce development. That focus enabled us to advance several important initiatives with industry and government despite the continued uncertainty created by the pandemic.

The advancement of zero carbon building in Canada was a priority for us as we entered the critical decade of climate action. We continued to push the sector toward zero with a mix of advocacy, training, verification tools and services. The uptake of zero carbon buildings is growing as reflected in our certification numbers. Also, our efforts have seen the federal government back zero carbon building through updates to its Greening Government Strategy and the inclusion of the Zero Carbon Building standards in the Green and Inclusive Community Building Fund. The standards were also referenced in municipal codes like Toronto's Green Standard and Vancouver's Green Building Policy for Rezoning, with more regions expressing interest in adopting it.

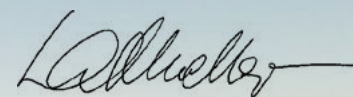
In 2021 we focused on strengthening transition planning to help building owners and operators shift entire portfolios of buildings toward zero carbon performance over time. This is significant as it aligns deep carbon retrofits with capital investment cycles to achieve the best possible outcomes in carbon performance improvements.

Decarbonizing Canada's buildings over the coming decades will require the urgent retrofit of all existing large buildings. Through 2021, we worked with the Canada Infrastructure Bank (CIB) on establishing the first of its kind Commercial Retrofit Financing Initiative to scale up deep carbon retrofits, and supported de-risking retrofit investment through the Investor Ready Energy Efficiency (IREE) certification. SOFIAC became the first project aggregator to close its financing package through the CIB, followed by Dream in December.

Providing building owners with a roadmap to cost-effectively achieve net zero is another way we are working to accelerate retrofits. CAGBC released a landmark feasibility study – the first of its kind – that detailed the technology, cost, and impact of large building decarbonization. *Decarbonizing Canada's Large Buildings* stands as a call to action for all large building owners.

As you review our 2021 accomplishments, we have already entered CAGBC's 20th anniversary year. Over the last two decades, CAGBC and its supporters have fundamentally changed the building sector. LEED has become the industry standard for green building, spawning many standards and programs in its wake. CAGBC has set the foundation that will help the Canadian building sector scale up its collective efforts to substantially broaden the adoption of green and zero carbon building.

I look forward to celebrating the 20 year milestone and enabling the next wave of change with you.



THOMAS MUELLER
President & CEO
Canada Green Building Council

Algonquin Centre For
Construction Excellence
LEED Platinum
Ottawa, Ontario



In 2021 CAGBC continued to focus on its three-year Strategic Framework, advancing the Council's goals to:

Equip the building sector to become a leader in Canada's low-carbon future

- Grew the Workforce 2030 coalition to over 70 participating organizations, including top employers, educators, unions and other stakeholders in the green building sector to accelerate low-carbon workforce development in Ontario, with interest from other regions. We also secured funding for the Rapid Upskilling Program.
- After aligning the Investor Ready Energy Efficiency certification to the commercial stream of the Canada Infrastructure Bank's Building Retrofits Initiative, we saw the first project aggregators close their financing package - SOFIAC and Dream.
- Expanded on our 30.60.90 Manufacturers' Accelerator to encourage adoption of life cycle assessment (LCA) data, environmental product declarations (EPD) and Health Product Declarations (HPD)
- Launched an on-demand Zero Carbon Transition Planning on-demand course to encourage building owners and operators to start planning for decarbonization.

Be a catalyst for accelerating building innovation, market uptake and industry capacity

- In 2021, we hosted a roundtable with Minister Catherine McKenna in support of the National Infrastructure Assessment, raising the profile of buildings and their potential environmental impact.
- Added four new participants to the Disclosure Challenge, bringing 14.3 million m² of space into the visualization tool, a 30% increase.
- With Minister Mona Fortier, released the results of a seminal study on building retrofits, Decarbonizing Canada's Large Buildings, offering actionable steps building owners can take to plan for and cost-effectively action deep carbon retrofits.
- CAGBC and mindful MATERIALS began collaborating to accelerate the broader adoption of low-impact materials across the built environment.
- Announced a new study in partnership with Delphi Group on retrofits, the Canadian Green Retrofit Economy Study.

Ensure CAGBC's long-term effectiveness and viability to support market transformation

- Released a Zero Carbon Building standards addendum to allow for additions and attached buildings and allowances for climate zones 7 and 8 buildings and those with unique heating or ventilation loads.
- Began the process of moving certification services back to CAGBC from GBCI Canada.
- Advocated for continued government support to spur market transformation with CAGBC recommendations layered in minister's mandate letters including:
 - A national net-zero emissions building strategy that the Minister of Natural Resources should develop and implement that includes construction and deep retrofits of existing buildings, as well as energy labelling requirements.
 - Net-zero emission building and a retrofit code by 2024 under the responsibility of Ministers Champagne and Wilkinson
 - Support for the decarbonization of buildings was a part of the Minister of Finance mandate.
 - The promise of a Low-Carbon Building Materials Innovation Hub also featured in Minister Wilkinson's mandate letter.
 - The creation of a clean jobs training centre and redesigning the Canada Training Benefits program to reflect the need for low-carbon expertise.

GREEN BUILDING CERTIFICATIONS



Green Building Certification Totals in Canada

20

ZCB-Performance buildings that do not contribute to climate change

14

ZCB-Design buildings that enable zero carbon performance

5,145

LEED Certified projects

1.58

LEED Certified area per capita (m²)

60,822,525

LEED Certified space (m²)

LEED IN CANADA



Energy savings

Energy savings of **25.5 million** eMWh which is enough to power **867,000 homes** in Canada for a full year.



Water savings

Water savings totalling **45 billion litres**, enough to fill **18,000 Olympic swimming pools**.



Recycling

Recycling over **3.82 million tonnes** of construction/demolition waste, which is enough to fill the entire Rogers Centre in Toronto **15 times**.



GHG reduction

A **4.9 million** CO₂e tonne reduction in greenhouse gas emissions which equates to taking over **1,000,000 cars** off the roads for a year.



Green roofs

401,000 sq. metres of green roofs, enough to cover **265 hockey arenas**.

VIA Rail Ottawa Station
LEED Gold
Ottawa, Ontario

CLIMATE CHAMPIONS

Scotia Plaza
Zero Carbon – Performance
Toronto, Ontario

These are the 2021 Zero Carbon Building - Performance Standard buildings.

By pursuing and maintaining zero-carbon performance these projects **did not contribute to climate change in 2021.**

1177 West Hastings Street
Golden Properties
📍 Vancouver, British Columbia

355 Wilkinson
East Port Properties
📍 Dartmouth, Nova Scotia

483 Bay Street
Northam Realty Advisors
📍 Toronto, Ontario

495 Wilkinson
East Port Properties
📍 Dartmouth, Nova Scotia

531 Wellington Street North
AET Group
📍 Kitchener, Ontario

980 Howe
Manulife
📍 Vancouver, British Columbia

Amped Sports Lab
Modern Niagara
📍 Ottawa, Ontario

Édifice Jacques-Parizeau
Ivanhoe Cambridge
📍 Montreal, Quebec

Le Phénix
Lemay
📍 Montreal, Quebec

Lemay - Québec
Lemay
📍 Quebec

**Joyce Centre for
Partnership & Innovation**
Mohawk College
📍 Hamilton, Ontario

**Permanent Mission
of Canada**
Global Affairs Canada
📍 Geneva

Scotia Plaza
KingSett Capital
📍 Toronto, Ontario

IMPACT AND ENGAGEMENT

Education

4,797

people took a course
or attended an event.

15,624

education hours delivered.

CAGBC Members

1,000

corporate members

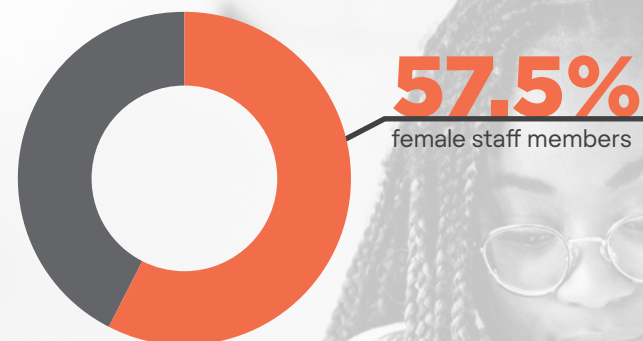
13,839

corporate individuals +
individual members

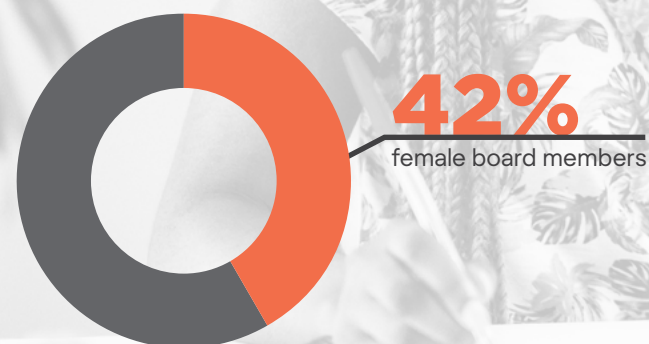
Equal by 30 Commitment

The Equal by 30 Campaign works to **advance the participation of women in the clean energy transition** and close the gender gap by taking concrete action. CAGBC is a signatory and committed to advancing inclusive approaches to hiring and representation.

Staff ratio



Board ratio



THANK YOU

Thank You

Thank you to our Members, [Board](#), [Zero Carbon](#) and [LEED](#) Steering Committees, [Technical Advisory Groups](#) and Volunteers who contributed to CAGBC's 2021 success.

To become a member, [click here](#) and [visit CAGBC's website](#) for more information.

cagbc.org

Products



2021 National Sponsors



Toyota Canada Parts Distribution Centre
Zero Carbon – Design
Clarington, Ontario