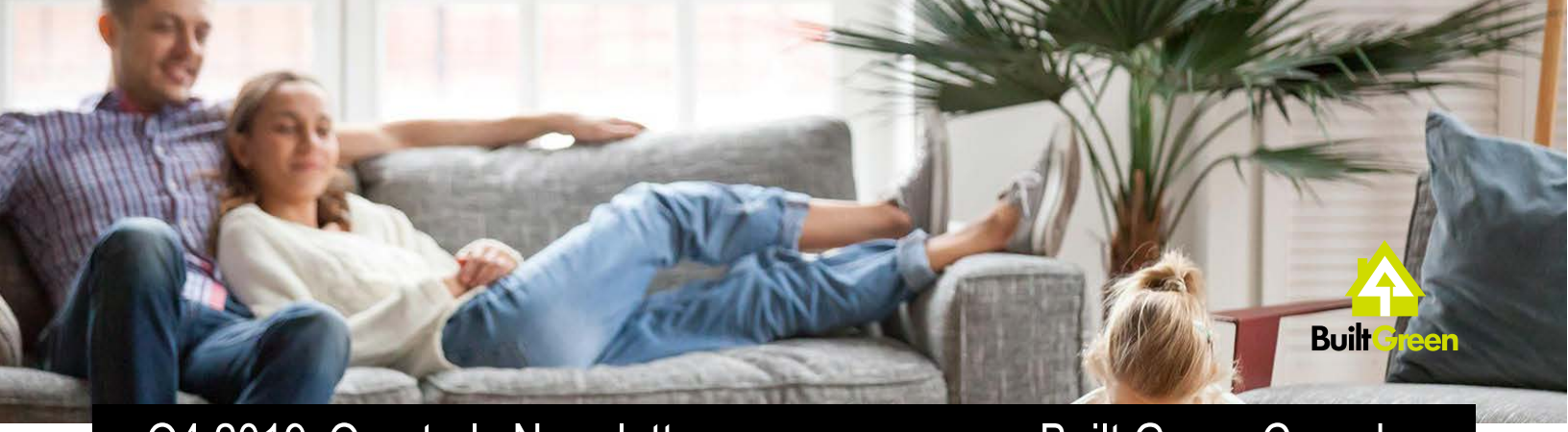


Q4 2019 Quarterly Newsletter — Built Green Canada

In this Issue:

NEW Certification Points in 2020 – Some Highlights

- Greenhouse gas emission reductions earn points
- Alternate compliance pathway for energy performance [Step Code]
- Water Efficiency Rating Score – only available in Canada through Built Green
- Home modifications for aging in place

And innovation points continue to be encouraged—we're particularly interested in embodied carbon reporting, strategies to address overheating of buildings, and more!

More about our 2020 Checklists on page 4, Program Highlights.

Checking All the Boxes

How we align with, support, and extend beyond 9.36 / Energy Step Code and what our programs can do for you.

Performance is in Our DNA

Energy performance makes up one of seven areas that builders address before they can put our label on their project. So how does Energy Step Code fit into our programs? We complement and build upon energy-specific regulations for a near 360-degree view of sustainability.

And Built Green doesn't just align with 9.36 / Step Code, we pick up where code leaves off. While regulation is driving increased energy performance, that's just one part of the sustainability story.

Sustainability is Bigger than Energy

The BUILT GREEN® label reassures homebuyers they've invested in a more comfortable, healthy, responsibly built home. Our programs address water and waste management, indoor air quality, ventilation, responsible building practices, and more. Built Green checks all the boxes on sustainability.

BUILT GREEN Checks All the Boxes on Sustainability
The certification supports, aligns with, and extends beyond regulations

	Energy Step Code / 9.36	BUILT GREEN
Energy & Envelope	✓	✓
Materials & Methods		✓
Indoor Air Quality		✓
Ventilation		✓
Waste Management		✓
Water Conservation		✓
Business Management		✓

Leading the Way Up the Steps

BUILT GREEN is increasingly relevant in the age of 9.36 and Energy Step Code; it builds capacity.

Governments have signaled that they will tighten energy efficiency requirements—updates in advance of the nation-wide goal that all new builds be net-zero ready by 2032.

By offering four achievement levels—Bronze, Silver, Gold, and Platinum, each aligning with steps of Energy Step Code—BUILT GREEN builders get a jump start on regulations. And, we work alongside the builder to help them improve incrementally, both with energy performance and overall sustainability.

As the landscape continues to change, builders are increasingly looking for a competitive advantage, and when every home has a minimum step requirement, finding an edge beyond energy will be essential.

BUILT GREEN provides that with third-party verification on homes that deliver on the full list of sustainability focus areas.

Alternate Energy Compliance Pathway Choices

Builders with Step Code requirements now have an alternate energy pathway through our 2020 checklists. While we continue to require EnerGuide (Single Family and SF Renovations) and NECB / ASHRAE (High Density), builders may now choose to apply their step code scores to meet the energy compliance requirement for BUILT GREEN.

Stronger energy regulations will continue to come, and with energy performance addressed, attention will turn to other critical aspects of sustainability; BUILT GREEN offers builders a proven platform to support and extend these requirements, while offering a way to differentiate themselves beyond energy.

What Our Builders Say About BUILT GREEN

Recognizing Waste Reduction Week

Built Green Encourages and Rewards Waste Management

In recognition of Waste Reduction Week, October 19-25, 2019, Built Green Canada acknowledged the integral role waste management plays in environmental sustainability, as well as those builders who have long chosen responsible waste reduction methods.

While Waste Reduction and Recycling Weeks in Canada began in the mid-1980s, the national Waste Reduction Week program was spearheaded in 2001 by the Recycling Council of Ontario, who leads the national campaign to celebrate environmental efforts and achievements, while encouraging further innovation and solutions.

In parallel, Built Green Canada was formed shortly thereafter—a national, non-profit organization that offers third-party certified sustainable building programs to residential builders. These programs take a holistic approach that includes energy efficiency and goes on to address six other critical aspects of sustainable building—like materials and methods, water conservation, and waste management.

In the residential building industry, waste management primarily refers to the handling of materials on the construction site: the Built Green programs encourage builders to reduce waste, reuse scrap materials, and recycle or donate what's left over.

"While energy performance is a dominant focus across the country to mitigate climate change, Built Green builders and supporting industry have championed a holistic approach to sustainability—as part of this, integrating waste reduction practices," says Built Green Canada's CEO Jenifer Christenson. "Campaigns like Waste Reduction Week, alongside ongoing industry leadership, are key to promoting awareness, and in turn, progressing uptake of these practices."

Meanwhile, increasingly municipalities are asking that builders and developers sort their waste—while initially this may be met with some resistance, it is an environmental approach that can be straightforward.

Whether through municipality directed or guided through programs like Built Green or driven by their own sustainability goals, builders can encourage their trades to recycle their onsite waste. Moreover, utilizing waste management services further help builders reduce the load, in terms of administration and supervision.

Waste management companies come onsite to recycle and redistribute materials, whether that be for recycling or donation, maximizing landfill diversion—and as a result, may reduce landfill fees for the builder. Built Green members Sea to Sky Removal serves the Lower Mainland and the Sea to Sky Corridor, while 1st Choice® Construction Site Services Inc. services greater Edmonton.

Waste Reduction Week runs alongside the Canadian Home Builders' Association's Renovation Month, intended to help educate consumers on what goes into a renovation and how to find a professional renovator. Fitting, as waste reduction is an important component of responsible renovations and our renovation programs.

Our Supporting Members Help Builders

Supporting members are responsible for products and services for the residential building industry. They have similar goals to our builders and are required to meet membership criteria to be part of our community. Be sure to make mutually beneficial connections!

Built Green in Your Community

Bow View Homes' Project Achieves BUILT GREEN® Gold in Canmore

Photo courtesy of Bow View Homes.

In December 11, Bow View Homes' Building E Versant at Stewart Creek was certified BUILT GREEN® Gold. The project met the compliance requirements for Energy & Envelope, as well as achieved Built Green's requirements in the remaining sections of our High Density certification including: Materials & Methods, Indoor Air Quality, Ventilation, Waste Management, Water Conservation, and Business Practices (v. 2018).

Noteworthy were the impressive points earned in the Energy & Envelope section, as well as in the Materials & Methods, Ventilation, and Business Practices sections. Beyond the sustainable building aspect of the Versant, the project is stunning and complements its location in the Rocky Mountains.

Their mountain homes tend to reflect the beauty and grandeur of the scenic Rocky Mountain alpine environment. At the same time, they encourage customers to tailor their homes to their lifestyles and personalities. Because of this, every home they build is unique in some way. They build conventional frame, timber frame, and hybrid timber frame homes. A Bow View Homes is one that is custom-built to fit customers' lifestyles and to be as functional as it is beautiful.

Waste Management Represented at Ecocity World Summit 2019

Chris Arkell, Co-Founder of Sea to Sky Removal at Ecocity.

From October 7–11, 2019, Ecocity World Summit was held in Vancouver, Canada, recognized as one of the world's most livable and greenest cities. The Summit focused on helping to build an infrastructure of ideas, strategies, and actions we can all use to promote cities that are socially inclusive and ecologically healthy. This year's central theme was "socially just and ecologically sustainable cities." Important sub-themes included: climate action, circular economy, and informal solutions for sustainable development, bringing focus to the International Ecocity Standards (IES) by using its four pillars: urban design, bio-geophysical conditions, socio-cultural features, ecological imperatives

The summit also included a Community Solutions Showcase, where some of the best sustainability solutions were presented to those in attendance in a Pecha Kucha-style fast pitch. Amongst those presenting was Sea to Sky Removal, a supporting member of Built Green Canada. We have an entire section of our certification devoted to waste management.

Sea to Sky Removal was founded on the principal that business can do good, drive change, and ultimately help save the world. They saw a problem, construction waste, and decided that they could change it. Their crew hand separates all recyclables to maximize diversion as well as separates any reusable items from actual garbage. They also live-load their trucks so they can efficiently dispose materials to the correct locations such as recycling centers, any suitable local non-profit organizations, and lastly the landfill.

Sea to Sky Removal is a Certified B Corporation who services all types of construction sites throughout the Lower Mainland as well as the Sea to Sky Corridor.

The British Columbia Institute of Technology (BCIT), the City of Vancouver, and other strategic partners worked together to convene the Ecocity World Summit in 2019.

Built Green Technical Workshops in British Columbia

In November, we delivered a series of workshops across BC as industry readies itself for the next step of the BC Energy Step Code, while others prepare for its introduction in their area.

Built Green workshop in Langford.

The workshops included a case study informed by local specifications, courtesy of 3rd Generation Homes' BUILT GREEN® Gold certified project, considered the building techniques in the area and alternatives as step code requirements increase; practical suggestions were discussed that reflect on economies of scale; and we shared updates that provided alternate compliance pathways for an even greater alignment with the BC Energy Step Code in our 2020 checklists.

Workshops were held in North Vancouver, Kelowna, and Langford where attendees were able to earn CPD points with BC Housing and CPL points with the Planning Institute of British Columbia.

Thank you to those who attended, to Hasler Homes Ltd. and Verity Construction Ltd. who provided venues at their builds in progress, to 3rd Generation Homes who informed our case study, and to our presenters, including Roger Chayer, Andrew MacDonald, and Niels Anthonsen. And, a shout out to All Weather Windows for their sponsorship of the North Vancouver workshop.

THE MEADOWS OF LAUREL

Meet Your Neighbour

Dave Turnbull, Enerspec owner and Technical Advisor to the Board, presents on behalf of Built Green.

On November 21, the City of Edmonton and Built Green Canada co-hosted a session for those builders who purchased lots in the Meadows of Laurel. The session focused on ways to avoid damage and build sustainably, including offering sustainable building tips and covering positive impacts sustainable homes have on the environment and household costs—all of this to educate on the benefits of green building, ways to build sustainably, and how to avoid damage to City infrastructure to ensure the $10,000 Design Guideline and Sustainable Certification Performance Fee is refunded.

PROGRAM UPDATES

2020 Program Checklist Updates

Our program updates are informed by building code, the Technical Standards Committee, the Board of Directors, new technologies and innovations, and industry input. Some key highlights include:

- Greenhouse Gas Emission Reductions
- Alternate compliance pathway for energy performance [Step Code]
- Water Efficiency Rating Score—only available in Canada through Built Green
- Home modifications for aging in place

And innovation points continue to be encouraged—we're particularly interested in embodied carbon reporting, strategies to address overheating of buildings, and more!

A summary of changes are listed in the links below:

- Single Family
- Single Family Renovation
- High Density

We value your input throughout the year, which offers greater clarity on existing checklist items, potential reallocation of points on select checklist items, as well as the addition of new checklist items. Your engagement helps keep our programs relevant, so please stay in touch.

Communities Program Under Development

We are developing a **Built Green for Communities Program pilot**. The steering committee includes builders, developers, and sustainability consultants, and we continue to reach out to other industry members, municipalities, etc. for input.

As community development includes consideration of location, infrastructure, transportation, buildings, etc, we will be moving beyond historical Built Green boundaries. Built Green is committed to maintaining our key objectives, including energy efficiency and carbon reduction; resilience and durability of services; equity and health, reduced use of non-renewable natural resources; reduced atmospheric, land and water pollution; and cost-effectiveness and clarity.

For more information or to participate please contact us.

2019 Single Family Project Verifications

As a component of our quality assurance process, a random selection of projects undergo our Single Family Verification process on "visibly inspectible" items, conducted by the Energy Advisor at the time of the blower door test. This is an additional verification step to increase the rigour of the BUILT GREEN® certification process; it adds another level of credibility to the program, and by extension, BUILT GREEN® home certification—all of this, adding to the marketability of your product.

This year, we received more verifications than we had even asked for: thank you to all the builders and Energy Advisors who made this happen!

Those who will be undergoing project verifications during 2020 were notified in February 2020. If you have questions, please contact our office.

Energy Advised: A Shout Out

With building code changes and increased emphasis on sustainable building, of which energy efficiency is a key component, the role of an Energy Advisor has become ever more important. Experts in energy efficiency, they're licensed by Natural Resources Canada to deliver the EnerGuide Rating System—a key component of our Single Family and Renovation programs.

Energy Advisors have honed strong energy advising skills through years of related practice, and their role is invaluable in sustainable building practices. We encourage you to fully utilize them in your build process; they have so much to offer you and your customers.

We'd like to extend a huge thanks to all those Energy Advisors who work with BUILT GREEN® builders to progress sustainable building practices.

For a list of Energy Advisors in your area, please contact the Built Green Canada office.

Featured Tweet

Incentives and Rebates

These are available across the country and vary based on project type (single family, renovation, and high density). Find details here: www.nrcan.gc.ca/energy/funding/efficiency/4947.

Automatic 15% Mortgage Insurance Rebate on BUILT GREEN® Single Family Projects

Buying sustainable homes offers savings, making them even more affordable for homebuyers. Single family new homes certified through Built Green Canada are automatically eligible for a partial mortgage loan insurance premium refund of 15%—ask us for your certificate.

Canada Mortgage & Housing Corporation, Genworth Canada, Canada Guaranty Mortgage Insurance Company, and others offer a premium mortgage insurance refund of 15% to borrowers who either buy or build through Built Green Canada.

For more information, visit the CMHC Green Home Program / Genworth Canada's Energy-Efficient Housing Program / Energy-Efficient Advantage Program and more.

Platinum Certifications

Congratulations to all those who achieved Platinum certification on their single family or renovation projects in Q4:

Blackfish Homes (1), British Pacific Enterprises Limited (1), Città Construction Ltd. (1), De Waal Developments (1), Diamond Head Development Construction Ltd (16), Effect Home Builders Ltd. (1), Falcon Heights Contracting Ltd (1), GNB Builders Inc. (4), Greener Homes Ltd. (2), J. Zsiros Contracting Ltd. (1), Landmark Homes (13), Legacy Signature Homes Inc. (3), Naikoon Contracting Ltd. (2), Sterling Homes Ltd. (1), and Tyee Homes (3).

For achieving BUILT GREEN® Platinum and Net Zero, a special shout-out and congratulations to De Waal Developments with one project, and Greener Homes Ltd. with two projects!

Net Zero Complementary to BUILT GREEN® Platinum

We see a number of BUILT GREEN® Platinum / Net Zero homes. Net Zero is complementary to Built Green, given we address energy and then go beyond to other critical areas of sustainable building for a holistic approach.

This speaks to the success of our programs, which support builders in building better, and through our four levels of certification, allow for builders at varying stages to progress and increase the environmental performance of their builds.

A Breakdown of Single Family Certification Levels for Q4

- Bronze: 21%
- Silver: 16%
- Gold: 54%
- Platinum: 9%

Is Your Training Up-to-Date?

We believe training is essential. One requirement for builder membership is that training is taken every two years; points may be earned on our checklist for doing so. We offer several options:

BUILT GREEN® Program Fundamentals - online
$150 for members / $250 for non-members

This fundamentals course is a requirement for new builders and focuses on the fundamental aspects of the program. 3 CPD points through BC Housing and Master Building training credits through Professional Home Builders Institute. *We also strongly recommend building science training as a natural progression.*

Construction Technology for BUILT GREEN® - online
$276.50 for BUILT GREEN® members / $395 for non-members*

An excellent *building science course* offered by Blue House Energy. 20 CPD Points through BC Housing and Master Building training credits through Professional Home Builders Institute.

And, we recognize Building Science for New Homes training available through Service Organizations licensed through Natural Resources Canada as well as other training providers.

Display Your Two-In-One Home Certification

The BUILT GREEN® home certification label is usually affixed to the furnace or electrical panel, along with the EnerGuide label from Natural Resources Canada.

These labels offer verification to the energy efficiency and green features of the home and reinforce to the homebuyer that they've purchased from a quality builder. Here are BUILT GREEN® labels showing all four levels of certifications, plus the EnerGuide label.

EnerGuide is an official mark of Natural Resources Canada: used with permission.

More Ways to Showcase Your Home Certification

Did you know we have metal plaques for purchase to further accentuate your home's certification: builtgreencanada.ca/built-green-metal-plaques.

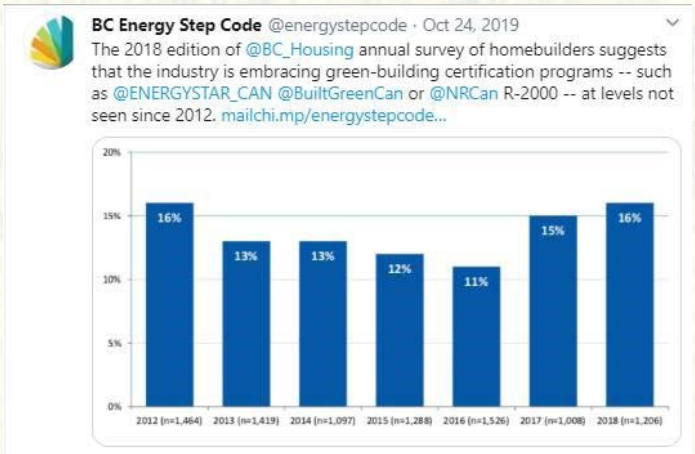
Mount it over your garage, on your birdfeeder, or as a fence gate decoration. A plaque provides a conversation starter and reinforces the home's third-party certification—beyond the EnerGuide and BUILT GREEN® labels. The plaques are available in bronze, silver, gold, platinum, and generic (no level identified).

Built Green in the News

Over the fourth quarter of 2019, we received media coverage from a number of outlets, including:

BC Building Info (x2), BC Business, Building Rural Manitoba, Calgary Herald (x2), Canadian Business Journal, City of Kelowna Newsletter, Construction Links (x3), Daily Commercial News, ecoHOME, Globe Newswire, Goderich Signal Star, Heart of Canmore, London Free Press (x2), Mortgage Broker News, Regina Leader Post, Real Estate Management Industry Network (x2), Times Colonist, and more.

Featured Tweet



PRODUCT CATALOGUE CONNECTION

The BUILT GREEN® Product Catalogue is **an online resource for builders and renovators** of building materials for use in sustainable construction. Products have been approved by Built Green Canada, giving builders peace of mind and saving them time sourcing materials. Our programs are based on checklists that guide our builders to achieving BUILT GREEN® home certification, and those materials in our catalogue are tied to specific checklist items.

Below, our featured Product Catalogue contributors are listed with their BUILT GREEN® approved products. If used in your BUILT GREEN® project, these products can help earn checklist points.

Quad-Lock Building Systems

Earning checklist points in Energy & Envelope

- The R-28 ICF Wall Assembly has panels made of expanded polystyrene (EPS) and ties made of high density polyethylene (HDPE) to create a concrete form that accommodates vertical and horizontal reinforcing steel as required. Filling the cavity with concrete creates solid, reinforced concrete walls with 2-4 hour fire resistance ratings (FRR), low maintenance, and outstanding durability. The EPS Forming System stays in place to provide space to run small utilities, serve as backing for finishes, and incorporate superior, continuous insulation layers. The high insulation values, low air infiltration, and high thermal mass can achieve significant energy savings for building owners, operators, and tenants over the building's longer lifetime. Build unlimited wall widths, many different insulation values, corners, angles, T-walls, columns, pilasters, and radius walls, using just a few standard components. (1.1.3, 1.1.4)
- Quad-Deck System is a light weight, stay-in-place, concrete formwork system designed to build insulated, reinforced concrete T-beam slab floors and roofs, typically cast-in-place, but also as tilt-up or pre-cast panels. (1.1.3, 1.1.4)

Watercycles Energy Recovery Inc.

Earning checklist points in Energy & Envelope

- This is a cost-effective way to increase the energy efficiency of new homes under most building programs such as Built Green Canada. The Watercycle reduces the cost of hot water heating and doubles the output of a hot water heater. (1.2.9)

We Can Support Your Sustainability Goals

BUILT GREEN builders have been delivering more sustainable homes all along. *If you're part of a municipality* looking for ways to support your climate mitigation strategies, as well as support builders in your area, BUILT GREEN can help—let us know.

A BUILT GREEN home offers assurance that a new or newly-renovated home checks all the boxes on sustainability. *If you're a builder* wondering how you can benefit from the broader shift to high-performance building without breaking the bank, consider joining our crew. We'll save you a spot.

Listen to what some of our builders have to say about the BUILT GREEN programs here.

Featured Sponsor: All Weather Windows

While demand for sustainably built homes increases and new building code regulations focus on improved energy performance requirements, affordability is high on everyone's agenda—meanwhile, industry continues to lead the way with progressive sustainable building practices and innovative solutions around products and processes. All Weather Windows has long supported builders in their green building goals with products like those featured here.

Attic Hatch

As builders who work to produce ever more air-tight, energy-efficient homes know, attic hatches can cause challenges. That's why, in the Energy & Envelope section of our home certification programs, we recommend the installation of a weather-stripped and insulated manufactured interior attic hatch (or no interior attic access).

A better seal and less heat transfer allows for a more efficient, comfortable home with less potential for condensation issues—meanwhile, this pre-fab option offers a step towards a faster turnaround time on your project.

Apex Window Series V-Weld Technology

Energy efficient windows, long known to improve a home's efficiency, comfort, and sound reduction, continue advancing. This is evidenced with v-weld technology in All Weather Windows' Apex window series.

V-weld window joints are fusion-welded together, leaving no gaps, and virtually eliminating water and air leakage. The extreme temperatures many parts of Canada experience can cause gaskets and silicone on traditional windows to expand and contract; over the long-term, this can lead to separation between joints—air and water leaks. The v-weld keeps the window strongly welded together, and the result is better frame integrity and performance, especially in climates where they're needed most.

With increased window durability, homeowners have less maintenance over the long-term, while leak-proof windows are contributing to a less wasteful, and more efficient, comfortable home.

All Weather Windows is Canada's largest privately-owned window and door manufacturer. Launched in 1978 in a 10,000-square-foot manufacturing facility in Edmonton, the company has since expanded services to all of western Canada, two commercial offices, All Weather Windows Glass, and close to 800 dealers across the country.

"We want to provide window and door solutions that are sustainable and help to protect the environment, while also maintaining key qualities such as durability, strength, and beauty," says All Weather Windows.