

CAGBC TECHNICAL BULLETIN

LEED


Education

- Substituting LEED v4.1 pathways
- 3 Tips for the Indoor Water Use Reduction Calculator
- Using the Group project approach
- How to submit for review in LEED Online
- LEED Canada sunset Halloween 2022

- Upcoming Education
- Building Lasting Change

Ghosts of Bulletins Past

This edition of the CaGBC technical bulletin includes updates to articles that continue to stop people in their tracks



LEED

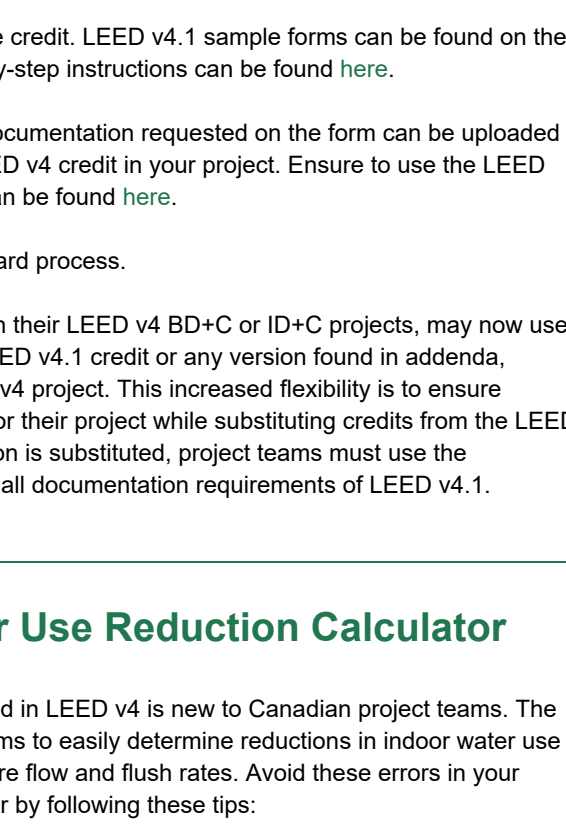
Substituting LEED v4.1 pathways

LEED v4 project teams can take advantage of increased flexibility and improvements by substituting LEED v4.1 requirements for particular credits. All LEED BD+C and ID+C v4.1 credits are available for substitution for LEED v4 projects. The instructions on how to substitute credits are also provided in the Beta Guides and noted below.

Process for attempting credit substitutions:

- In LEED Online, within each credit in your v4 project, you will see a gray arrow icon on the right side of each attempted credit on the credits tab. Click this icon for each credit that you would like to substitute. You will see a popup box checkbox that reads: "I am pursuing a LEED v4.1 credit substitution on this credit. Click confirm for each credit you plan to attempt."
- Complete the LEED v4.1 sample form for the credit. LEED v4.1 sample forms can be found on the sidebar of the LEED Online homepage. Step-by-step instructions can be found here.
- The LEED v4.1 form and all supplemental documentation requested on the credit can be uploaded to the special circumstances section of the LEED v4 credit in your project. Ensure to use the LEED v4.1 credit calculators where required; these can be found here.
- Submit credits for review following the standard process.

Project teams substituting LEED v4.1 credits on their LEED v4 BD+C or ID+C projects, may now use any version of the credit: that is, the original LEED v4.1 credit or any version found in addenda, regardless of date of registration of their LEED v4 project. This increased flexibility is to ensure project teams have the best options available for their project while substituting credits from the LEED v4.1 beta rating system. No matter which version is substituted, project teams must use the applicable LEED v4.1 Sample Form and follow all documentation requirements of LEED v4.1.



3 Tips for the Indoor Water Use Reduction Calculator

The Indoor Water Use Reduction Calculator used in LEED v4 is new to Canadian project teams. The calculator is a robust tool that allows project teams to easily determine reductions in indoor water use even with multiple user groups with varying fixture flow and flush rates. Avoid these errors in your LEED v4 Indoor Water Use Reduction Calculator by following these tips:

- Determine if the project has more than one user group. Use separate user groups where different types of occupants have different annual days of operation and/or use fixtures with differing flush and flow rates within the building (i.e., a school with staff and students having access to fixtures with different flush rates). User groups can be added as needed under Step 4 of the Instructions tab. Each group will appear as a separate tab in the calculator, and the totals will appear separately in the Summary tab.

- Indicate the correct percent of males expected to use urinals. Use 100% if all washrooms accessible by males have urinals, use 0% if no washrooms have urinals. If the project contains a mixture of washrooms with and without urinals, use a project-specific estimate based on the project's layout and anticipated usage patterns. If the project only contains a small percentage of gender neutral / accessible washrooms without urinals, you can use a default value of 95%.

14 Determine the percent of males expected to use urinals (enter 100% if all male restrooms have urinals, 0% if the project contains no urinals, etc)

15 Percent of males expected to use restrooms with urinals

- Ensure the percent of occupants using each fixture totals 100% for each fixture family. If all fixtures within same fixture family have the same flush rate, only enter that fixture type once and count the percent of occupants with access for that fixture at 100%. If the project has a mix of fixtures with different flush rates within the same fixture family, then the percent of occupants value assigned to each of those fixtures may vary, but the sum for the fixture family must be 100%. For example, the totals for toilet (male), toilet (female), and urinal must each be 100%.

Table: Flush Fixtures

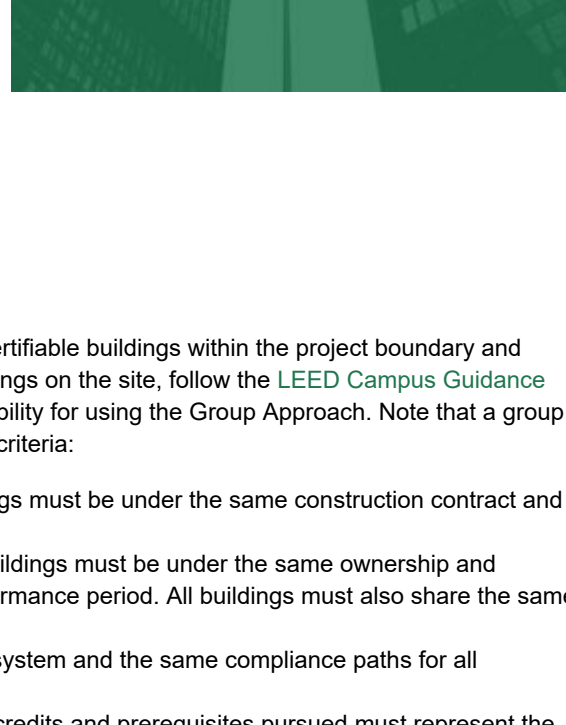
- Indicate the Fixture ID that matches the information provided in the plumbing schedule.
- Select the Fixture Family and Fixture Type installed on the project.
- Enter the Design Flush Rate identified by the manufacturer - for dual flush toilets, use the dual flush calculator to determine average flush rate.
- Enter the Percent of Occupants with access to the fixture. If the fixture is installed in all restrooms, use 100%. If necessary, modify the Total Value per Day column for non-default uses.

Fixture Information		Flush Rate			
Fixture ID	Fixture Family	Fixture Type	Baseline Flush Rate (l/p)	Design Flush Rate (l/p)	Percent of Occupants (%)
VC-1	Toilet (male)		6.00	4.8	50
VC-2	Toilet (male)		6.00	4.2	50
VC-1	Toilet (female)		6.00	4.8	50
VC-2	Toilet (female)		6.00	4.2	50
UR-1	Urinal		3.80	1.9	100

100% 100% 100%

Using the Group project approach

It can sometimes be confusing to determine the LEED project boundary for projects with multiple buildings on the site. Under LEED v4 and v4.1, Minimum Program Requirement #2: Must use reasonable LEED boundaries specifies when the LEED project boundary may include other buildings. If the LEED project boundary includes another small building (under 1,000 ft²/93 m²) which is not certifiable, such as a guard station, the building can be included or excluded from the certification at the project team's discretion, so long as it is done consistently. However, any certifiable buildings within the boundary must be included as part of a group certification and documented as a single LEED application. The group project will receive one certification and rating for the entire group. To exclude other certifiable buildings on site from the project, the LEED project boundary must be drawn such that only the certifying building is within the boundary.



If the project team wishes to include multiple certifiable buildings within the project boundary and have a single certification for two or more buildings on the site, follow the LEED Campus Guidance for Projects on a Shared Site to determine eligibility for using the Group Approach. Note that a group project certification must meet all the following criteria:

- Design and Construction project buildings must be under the same construction contract and constructed at the same time.
- Operations and maintenance project buildings must be under the same ownership and management and share the same performance period. All buildings must also share the same space type.
- All buildings must use the same rating system and the same compliance paths for all prerequisites and credits.
- Calculations and documentation for all credits and prerequisites pursued must represent the entire site and all buildings within the LEED project boundary.
- Each building in the group project must independently qualify for the chosen LEED Rating System.

If you have determined that your project meets the criteria for a group project certification, be sure to register the group determined that your project in LEED Online by indicating that the project is a group certification project, and enter the number of buildings. Ensure that the gross floor area represents all buildings included in the project so that the fees are calculated accurately. While the fees are calculated separately for a group certification, the benefit to project teams is streamlined documentation submission when there are multiple buildings within the certification.

Guidance on credit achievement for group projects can be found in Appendix C and D of the above LEED Campus Guidance, or through the LEED v4 Reference Guides, under Further Explanations / Project Type Variations for each credit. Note that not all credits can be documented as if the building was one. Some credits must be documented separately for each structure, such as LEED v4 BD+C L+C Access to Quality Transit.

If you mistakenly register a group project as an individual project, please contact LEED Coach Canada to deactivate the incorrect registration and redo the registration as a group project.

How to submit for review in LEED Online

Is your project ready to submit for certification? As LEED Online is new to many project teams, we have outlined the steps involved.

- Have you ensured Project Information is complete, providing all submittal requirements as per the PI Form?
- Have you uploaded all required documentation and Excel calculators?
- Is the gross floor area consistent throughout the project documentation?

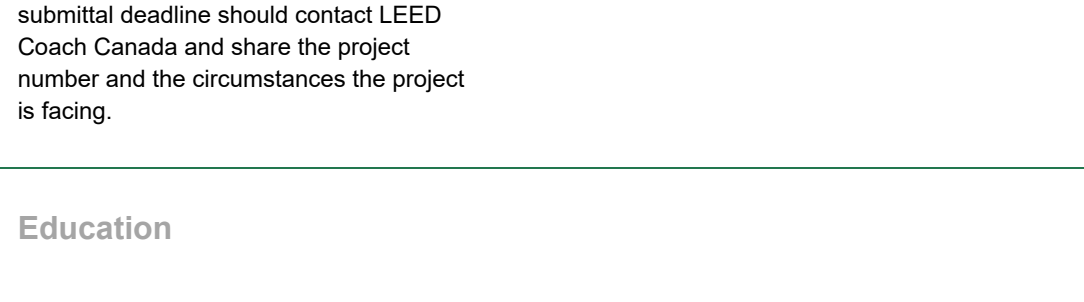
1) "READY FOR REVIEW"

Once you have all documentation uploaded, there is a grey checkmark to the left of the credit name which marks the credit as "Ready to Review". After selecting the grey checkmark, the checkmark will turn green and the drop down in the credit row will say "Ready for Review".

2) "SUBMITTING FOR REVIEW" – STEP 1

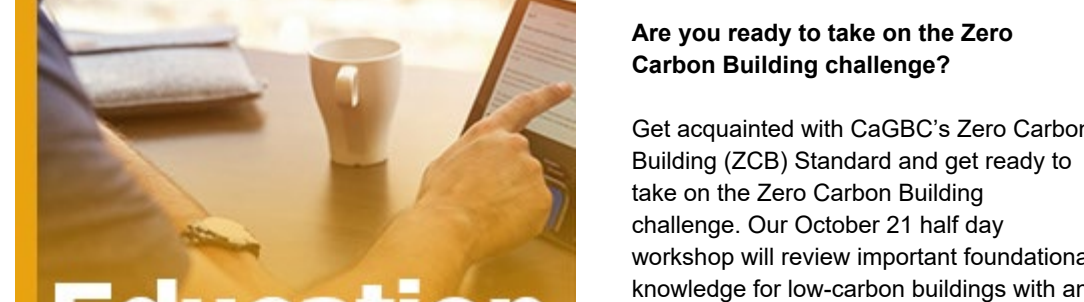
Once all prerequisites and credits that you plan to submit are marked "Ready for Review", press the "Submit for Review" button at the top of the page. Is your project ready to submit for certification? As LEED Online is new to many project teams, we have outlined the steps involved.

- Have you ensured Project Information is complete, providing all submittal requirements as per the PI Form?
- Have you uploaded all required documentation and Excel calculators?
- Is the gross floor area consistent throughout the project documentation?



3) "SUBMITTING FOR REVIEW" – STEP 2

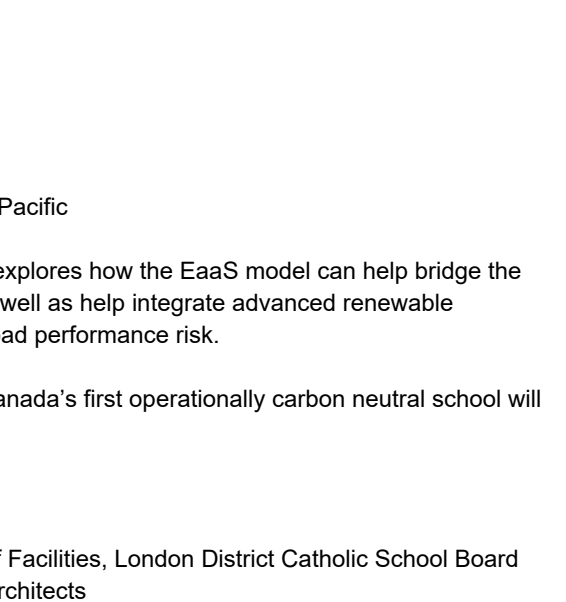
There is an important verification step: you need to confirm the submittal by reviewing the credits marked ready for review, and then you can click the "Submit" button at the top of the page.



Once you have completed the above steps, your required payment will be linked to the gross floor area provided in LEED Online. Your certification review will start once payment is complete.

Mark your calendars, next Halloween is the LEED Canada sunset date

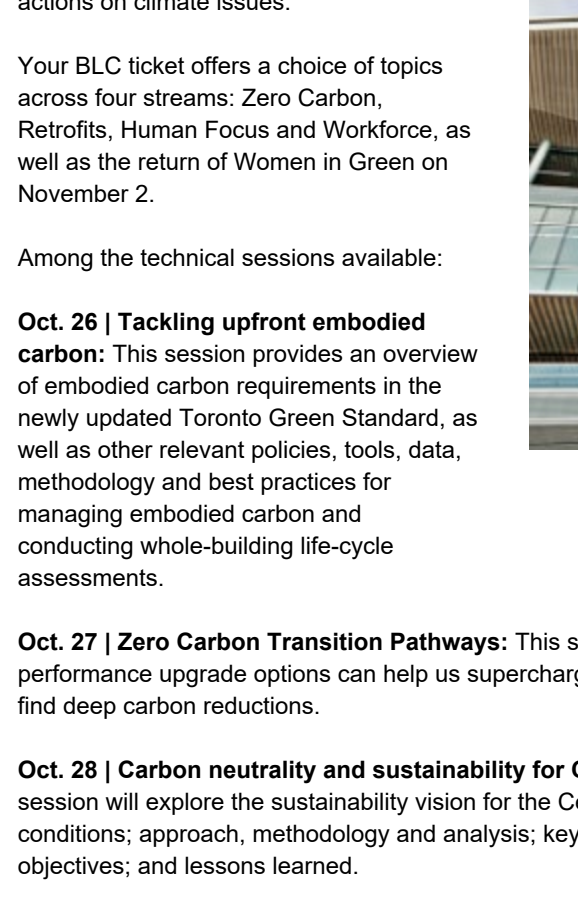
The sunset date for LEED Canada NC/CS 2009, LEED Canada EB:O&M 2009, LEED Canada CI 1.0, and LEED Canada Homes 2009 projects is **October 31, 2022**. All projects must be submitted to CaGBC for certification review before this date. LEED Canada NC/CS 2009 projects pursuing a split review must submit for Project Construction Review before the sunset date.



Projects that do not meet this timeline will no longer be eligible for certification and will be removed from the LEED registered project database. Projects may upgrade at no cost to LEED v4 or v4.1. Additional detail, including information about applying for extensions, can be found on the CaGBC website. Projects that have encountered challenges and have concerns with the submittal deadline should contact LEED Coach Canada and share the project number and the circumstances the project is facing.

Education

Upcoming Education



The Zero Carbon Building Standard Workshop

Thursday, October 21, 2021
12pm – 3:30pm Eastern ; 9am – 12:30pm Pacific

Are you ready to take on the Zero Carbon Building challenge?

Get acquainted with CaGBC's Zero Carbon Building (ZCB) Standard and get ready to take on the Zero Carbon Building challenge. Our October 21 half day workshop will review important foundational knowledge for low-carbon buildings with an emphasis on the latest version of CaGBC's ZCB Standard is the perfect place to start your zero carbon journey.

Participants will be engaged in the discussion for a live Q&A and interactive activities to reinforce the course material and review requirements for both new and existing buildings, exploring key focus areas such as:

- The zero carbon balance,
- The zero carbon transition plan,
- Embodied carbon,
- Thermal Energy Demand Intensity (TEDI),
- Energy Use Intensity (EUI),
- Peak demand, and
- Renewable energy

Achieving Net Zero with Energy as a Service

Wednesday, November 3, 2021
1 pm – 2:30 pm Eastern; 10:00 am - 11:30 am Pacific

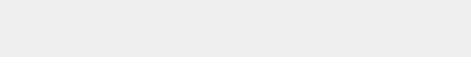
Presented by Ameresco Canada, this session explores how the Eaas model can help bridge the financing gap to achieve a net zero building as well as help integrate advanced renewable technologies, stabilize lifecycle costs, and off load performance risk.

A case study on how this model helped fund Canada's first operationally carbon neutral school will also be presented.

Panelists:

- John Koniouk – Retired Executive Manager of Facilities, London District Catholic School Board
- Jim Sheffield – Principal, Nicholson Sheffield Architects
- Joseph Meyer – Business Development Manager, Ameresco Canada

Session sponsor



To manage your subscription preferences or unsubscribe please [click here](#).



Members only offer
Buy two passes to BLC and get one for a friend, with our limited time buy two, get one free offer. Conquer your FOMO with B2GO today.

Register for BLC

Are you receiving the CaGBC Technical Bulletin in English when you should be receiving it in French? [Click here](#) to change your language preference.