

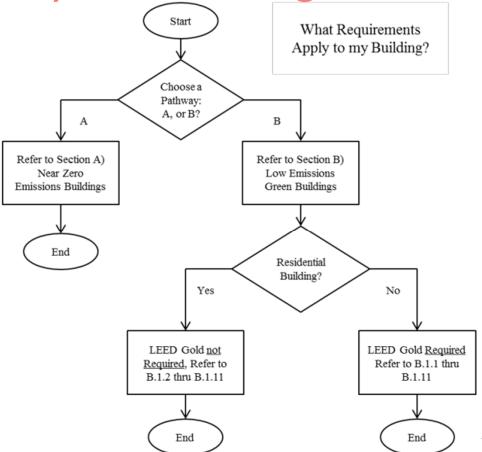
Agenda

- 1. Formalized process for compliance to 2017 Green Buildings Policy for Rezoning
- 2. Reminder: Airtightness testing requirement in VBBL
- 3. Approved Green Building Changes to Policy and VBBL for Part 3 New Construction
- 4. Regulations for Existing Commercial & Multi-family Buildings

1) Formalized process for compliance to 2017 Green Buildings Policy for Rezonings

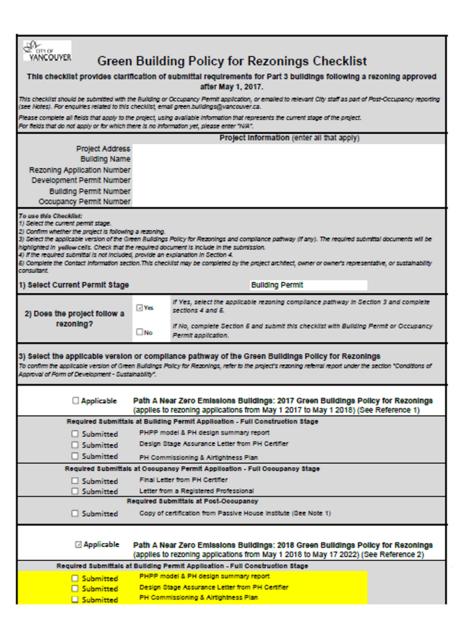
2017 Green Buildings Policy for Rezonings

- Effective May 2017 until May 2022
- 2 compliance paths
- Projects now reaching BP/OC
- Formalized process and supports for Part 3
 Buildings



Formalized process

- New Green Buildings Policy for Rezoning Checklist
- Identifies submittals at each stage to submit (via POSSE)
- Checklist for rezoning requirements can be filled out by architect, owners, or green building consultant



Formalized process

- Submit BP requirements at full construction stage permit application
- Submit OC requirements at final occupancy
 - Unless staged occupancy: identify which stage to submit documents
- Include this checklist for all Part 3 new construction BP and OC applications as of January 1 2023
- CP submissions lists will be updated

2) Reminder: Airtightness requirements for Part 3 buildings

Reminder: Airtightness requirements



Credit: BC Housing's Illustrated Guide – Achieving Airtight Buildings

- Air leakage testing for Part 3 buildings
 - In Rezoning since 2017
 - In VBBL since June 1, 2019
- Whole-building air leakage testing completed prior to occupancy
 - Residential buildings have suite testing requirements
- Testing report submitted to City as part of occupancy
- Guidance document coming soon

3) Approved Green Building Changes for Part 3 New Construction

Approved Green Building Changes for Part 3 New Construction

Changes approved on May 17 2022

- Green Building Policy for Rezonings (effective May 18 2022)
- Vancouver Building By-law (effective July 2023 and January 2025).



Effective July 2023

- 4-6 story residential occupancies: GHGI = 3
- For industrial/care/assembly (Group A, B, F major occupancies): 50% lower than the GHGI of the reference building modelled using only fossil-fuel systems

Effective Jan 2025

- 7+ storey residential occupancies: GHGI = 3
- Hotel & motel occupancies: GHGI = 4
- Include refrigerant impact (GHGI-R) in calculation of whole building GHGI limit
- For industrial/care/assembly (Group A, B, F major occupancies): 85% lower than the GHGI of the reference building modelled using only fossil-fuel systems



Effective July 2023

• MERV 13 filtration is required prior to introduction of outdoor air into indoor occupied spaces

Effective Jan 2025

• All dwelling units within new Part 3 buildings must be served by active mechanical cooling capable of maintaining an indoor air temperature of 26°C, with windows closed.



Effective July 2023

• Report whole-building embodied carbon impacts that must not be more than double that of a functionally equivalent baseline (created based on new COV Embodied Carbon Guidelines)

Effective Jan 2025

- 1-6 storey buildings that can be built with wood or mass timber: 20% embodied carbon reductions compared to baseline
- All other buildings: 10% embodied carbon reductions
- All new Part 3 buildings: meet one responsible source materials category, **OR** double the minimum embodied carbon reductions noted above

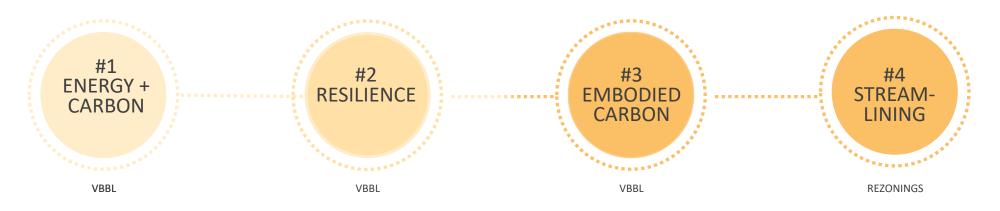


Effective May 18, 2022

Streamlined Process: submissions at rezoning application stage only*

^{*}refer to Green Buildings Policy for Rezoning – Process and Requirements

Implementation supports in progress



UPDATED Energy & Emissions Design Report **NEW Embodied Carbon Guidelines**

NEW Embodied Carbon Design Report

NEW Green Buildings Policy for Rezonings Checklist

4) Regulations for existing commercial + multifamily buildings

large commercial + multi-family



Detached homes + duplexes

78,800 homes

28% of total GHG's



Multi-Family Residential*

6,115 buildings

24% of total GHG's

*incl. rental, non-market, condos



Commercial

3,420 buildings

26% of total GHG's



Industrial

1,081 buildings

20% total GHG's









2024
COMMERCIAL
>100K ft²
250 buildings

2025
COMMERCIAL
>50K ft²
MULTI-FAMILY
>100K ft²
800 buildings

450 buildings





OFFICE + RETAIL >100K ft² 2026 limits ~45 buildings

2040 limits ~175 buildings





ALL BUILDINGS except 1+2 family homes

2023

repeal existing building energy upgrade requirements VBBL part 11





Thank you!

Website: vancouver.ca/zeroemissions

General Inquiries: Green.Buildings@Vancouver.ca

Staff Contact

Energy & Emissions, Climate Resilience, Rezonings: Charling.Li@Vancouver.ca

Embodied Carbon: Patrick.Enright@Vancouver.ca

Existing Buildings: Micah.Lang@Vancouver.ca

Energy Reporting & Benchmarking: Gurmeet.Ghera@Vancouver.ca