High Performance to Scale in Vancouver June 2020

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Chris Higgins City of Vancouver Green Building Planner

and a start



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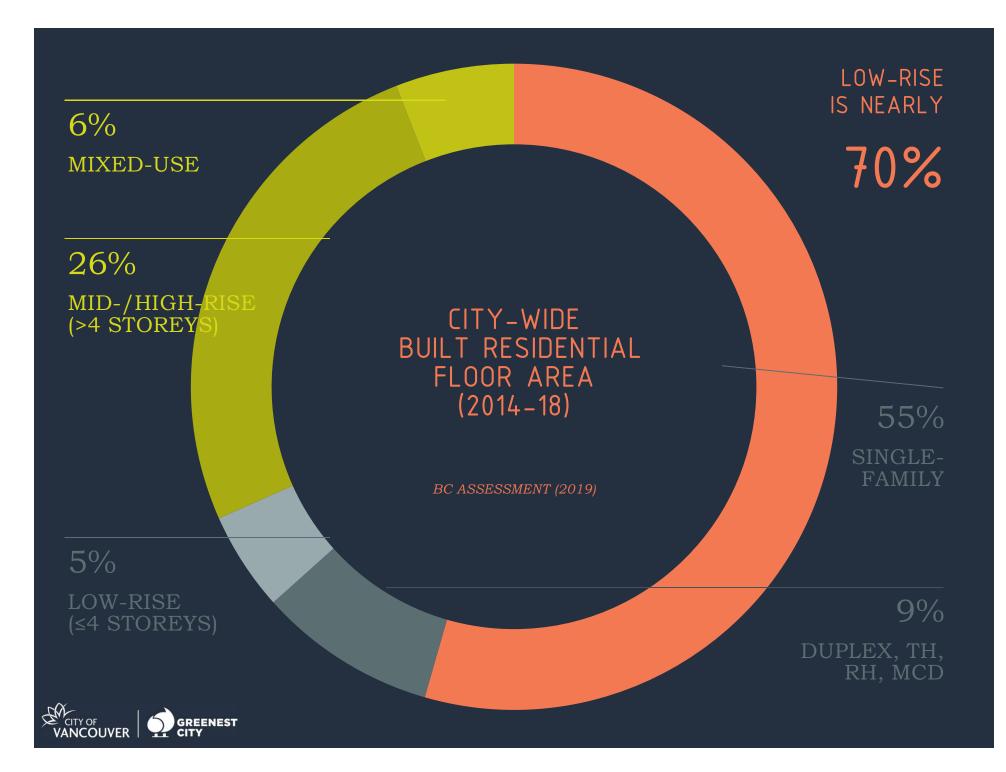
METROPOLITAN REGION: Population 2,500,000 Area 2,877 km²

North

CITY OF VANCOUVER: Population 603,500 Area

Surrey

CANADA/US BORDER





Nearly all new buildings required to emit zero emissions in their operation by 2025. Existing buildings have the same goal by 2050



2016 - Zero Emissions Building Plan

- 4 strategies for near-zero buildings by 2030
 - Show leadership in City projects
 - Catalyze voluntary champions
 - Build capacity in expertise, supply, and construction
 - Set GHG emission limits





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Incentivize





Zero Emission Building Outcomes

Enquiries and applications

Approved building permit

Approved rezoning or development

(370, 683m2)

(96,619m2)

(23, 144m2)

Square Feet 3,990,000 1,040,000 346,000

CITY OF	GREENEST
	CITY

Zero Emission Buildings – Small Scale





Cedar Cottage Passive Haus

Main Street Passive



Zero Emission Buildings – Large Scale





1075 Nelson Street

1468 Alberni Street



Image courtesy of Henson Developments Image courtesy of Musson Cattell Mackey Partnership in partnership with Robert A. M. Stern Architects

Changing the building code (bylaw)

Building by-law updates for new residential 1 to 3 Storey

- Heating limit 20kwh/m2/a using Hot2000
- Zero emissions space and water heating (electric)
- Improved building envelope (roofs, windows, and air leakage)
- Performance option to Step 4 metrics of the BC Energy Step Code
- In force Jan 1 2022, covering about 70% of new residential space



