

Electric Vehicle (EV) Readiness Requirements for All New Residential Developments

September 25, 2023





Purpose

To amend Zoning Bylaw No. 12375 to include Electric Vehicle (EV) Readiness requirements in all new residential developments.



Previous Council Direction

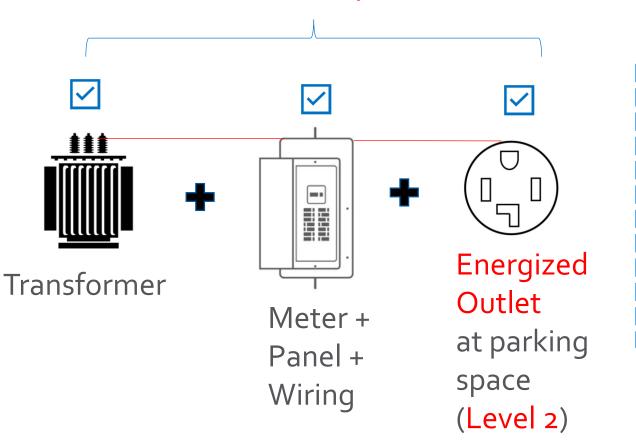
- ➤ Sept 27, 2021:Council endorsed the EV and E-Bike Strategy
- ► Feb 7, 2022: Council directs staff to include the EV readiness requirements as part of forthcoming Kelowna Zoning Bylaw updates:
 - All new residential developments have a minimum of 1 energized electric vehicle outlet per dwelling unit

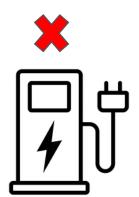


Key Terms









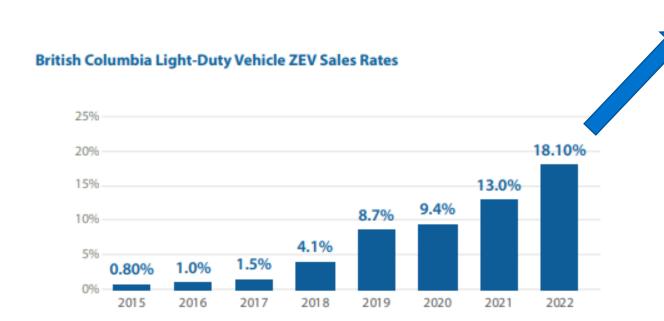
Charger installed later by owner (when needed)

BC Leading the EV Charge



- Rapidly increasing EV adoption rates in BC
 - ▶ Now approx. 1 in 5 cars sold

Federal and provincial EV sales mandate of 100% of new sales by
2035





Legislated Sales Requirement

- 26% by 2026
- 90% by 2030
- 100% by 2035





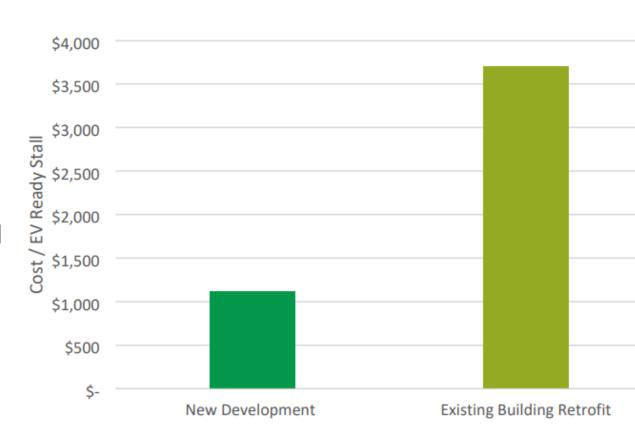


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Retrofitting multi-family buildings is costly and complicated



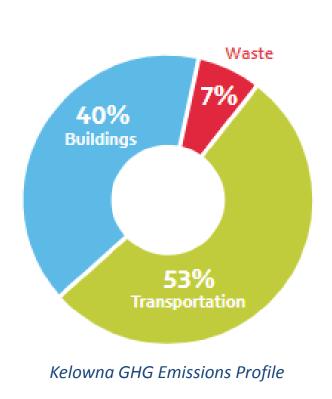
- Estimated cost at construction: \$930 to \$1,550 per EV ready stall
 - studies show common configuration is less than \$1,800 per stall
- Cost of retrofit: three or more times per stall and much more complex

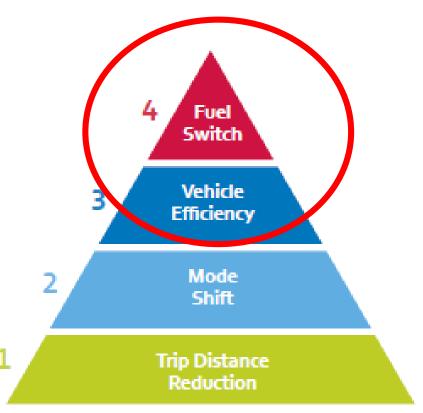


Mid-rise building example (140 units)

EVs Unlock Significant GHG Reductions







Many Local Governments in BC Have Adopted EV Readiness





Example Municipality (year)	EV Readiness Level (MURBs)
Vancouver (2018)	100% of stalls
Burnaby (2018)	100% of stalls
Surrey (2019)	100% of stalls
New Westminster (2019)	100% of stalls
City of North Vancouver (2019)	100% of stalls
Dist. of North Vancouver (2021)	100% of stalls
Richmond (2017)	100% of stalls
Port Moody (2019)	100% of stalls
Saanich (2020)	100% of stalls
Dist. of West Vancouver (2018)	100% of stalls
Victoria (2020)	100% of stalls
Nelson (2020)	1 per dwelling
Langley (2019)	1 per dwelling
Coquitlam (2018)	1 per dwelling
Penticton (2023)	1 per dwelling
Port Coquitlam (2018)	Partial infrastructure ("high")
Kamloops (2023)	Partial infrastructure ("low")



Stakeholder Engagement

Public Engagement (Dec 2020 – Apr 2021)



EV Strategy Complete (Fall 2021)



Zoning Bylaw Engagement (Fall 2021)



Additional Dev. Industry Engagement (April 2023)

Public Support:

- Predictable charging
- Future-proof new construction; avoids retrofit issues
- Increase EV purchase interest

Development Industry Feedback:

- Differentiate rental buildings
- Prefer phased approach
- Potential impact on construction costs and affordability concerns
- Electricity supply and availability

Staff Recommendation



- Amend Zoning Bylaw 12375: Effective April 1, 2024, electric vehicle ready parking spaces shall be in provided in accordance with the following EV Ready requirements:
 - ► For all new residential developments, require minimum of 1 energized electric vehicle outlet ("EV ready") per dwelling unit
 - Exception for "rental only" zones, where a minimum 25% of parking spaces require 1 energized electric vehicle outlet

