

DO YOU NEED ELECTRIC VEHICLE CHARGING STATIONS IN YOUR BUILDING?

BCIT ELECTRIC VEHICLE CHARGING STATION DEMONSTRATION PROJECT

The BCIT Smart Microgrid Applied Research Team is involved in a research project to investigate efficient ways to retrofit existing Multi-Unit Residential Buildings (MURBs) in the Greater Vancouver area with electric vehicle charging stations.

The goal of the project is to provide demonstration sites for stratas that show how to develop a scalable plan for installing EV chargers in existing MURBs.

For the selected MURBs, BCIT and their electrical engineers will:

- review the building's electrical capacity for adding EV chargers.
- develop the best plan for the building to install EV chargers, with the goal of installing chargers for parking stalls, and provide the plan to the Strata Council.
- using the engineered plan, purchase and install the first 6 EV chargers.

BCIT will use level 2 EV chargers in this project which will be load-shared, or load-managed, 'smart charging' units, and are particularly relevant for MURBs and dense urban area parking lots, most of which were designed and built before EV charging was a consideration.

- Costs of engineering study and design plan for building will be covered by this project.
- Purchase and installation costs of 6 EV chargers will be covered by this project.

BC Premier John Horgan promised that all new cars and trucks sold in B.C. in the year 2040 will have to be zero-emission vehicles. The proposed legislation would require 10 per cent of all new light-duty vehicles sold by 2025 to produce zero emissions. That percentage would jump to 30 per cent by 2030 and then 100 per cent by 2040.

BCIT Smart Microgrid Applied Research Team (SMART).

Building a Cleaner Future Together