

**APPENDIX A To MOTION TO COUNCIL RE ELECTRIC CHARGING STATIONS
BACKGROUND ON EV CHARGING STATION**

Source: Emails from the Environmental Officer for Cobourg

Establishing public EV charging infrastructure is a component in the Cobourg Community Climate Action Plan 2020 to 2050.

In the Fall of 2019 Cobourg approved the installation of 8 EV charging stations and related infrastructure. However, due to a misunderstanding on the cost and need for them, work to install them has not progressed.

The Environmental Officer had recommended that Cobourg work with the Ivy Charging Network, a non-profit charging network owned by Hydro One and Ontario Power Generation. (*See end of this note for excerpt from the Ivy Charging Network website*).

The Environmental Officer recently confirmed with the Ivy Charging Network that the cost for the 8 chargers (or 4 dual chargers) installed, is \$13,500 per year or \$132,000 over 10 years (not \$168,000 as the Director of Public Works had understood). After 10 years Ivy considers the installation and cost of chargers fully paid. Maintenance and support from the call centre would still have a charge. Note: the chargers have a 10 year warranty.

This price includes the cost of the charger, installation, maintenance, software, support for the remote call center, and signage spread over 10 years. It also includes the \$5,000 per charger (or \$10,000 per dual charger) rebate from Natural Resources Canada.

There is no charge from Ivy Charging Network for electricity used. Ivy would connect the chargers to the panel in the nearest municipal building so electricity costs would be added to that building's existing bill. Some revenue would be recovered by the price charged to drivers to use the chargers. That price is set by the municipality and the money goes to the Town.

Working with the Ivy Charging Network provides a turnkey approach which saves smaller communities such as Cobourg from having to dedicate time and training of staff to install and operate their own EV charging system. Ivy provides this service at the least cost because, as mentioned above, it is a non-profit owned by Hydro One and OPG. This ownership model also means it will be around in the future.

It appears the annual cost of \$13,200 for this initiative was not included in Cobourg's 2021 budget. Ivy advised the Environmental Officer that Cobourg can have the 8 EV charging stations installed in 2021, and pay for them from the 2022 budget year. This may mean paying a total of \$26,400 in 2022. Installing them this year would enable Cobourg to take advantage of the \$10,000 per dual charger one-time rebate from NRCan offered for 2021.

NEED FOR EV CHARGING STATIONS IN COBOURG

There is a strong case to be made that our CCC needs the 4 EV charging stations given that hockey tournaments draw on people from as far away as Ottawa. The Environmental Officer was told in 2019 that the Town was getting several calls from Torontonians as to whether we had EV charging before the Waterfront Festival that year.

Cobourg staff are looking for more proof that public EV infrastructure is needed. It is a chicken and egg situation. It would be hard to know without installing some infrastructure what the demand would be from visitors to Cobourg's many events. However, there is a growing demand for electric cars. And there is greater recognition Canada wide that electric cars are part of the Climate Emergency solution.

Also local public use is only a part of that demand. A comparable may be the recent installation in Victoria Park of many in-ground electric outlets for festival events. It is infrastructure which will result in little direct revenue for the Town but draw in visitors from a wider geographical area.

The Town of Cobourg has declared a climate emergency and the Cobourg Climate Action Plan 2020 to 2050 calls for electric vehicles charging infrastructure both for the public and as part of the electrification of light fleet vehicles. The timing is not specified for the transition of *fleet* vehicles to electric vehicles which would be worked out with Public Works and Parks. Parks Manager, Jason Johns conveyed to the Environmental Officer in 2019 that he had been following the progress on electric pick up vehicles and would be reviewing purchasing electric park vehicles for their reduced maintenance and pollution, and much lower fuel costs. Some of the charging infrastructure which would be in place with the Ivy Network could also serve to charge fleet vehicles.

IVY CHARGING NETWORK WEB DESCRIPTION <https://ivycharge.com/about-ivy/>

At Ivy, we strive to provide the best on-the go electric vehicle (EV) charging experience possible by delivering a seamless and consistent experience across all of our stations.

Once complete, Ivy will be Ontario's largest fast-charger network, connecting the north to the south, and east to the west with 160 chargers across 70+ locations.

Ivy is built around our customers and their needs. We work hard to always provide a consistent and easy experience no matter where you are charging – from Kenora to Kingston. After all, charging on-the-go shouldn't be rocket science.

Through our large network and reliable customer experience, Ivy will help enable a world of travel and exploration without limitation or worry that you'll run out of a charge. Ivy Charging Network is owned by Hydro One and Ontario Power Generation.