



Workplace Charging Case Study: Township of Langley

The Township of Langley is a district municipality immediately east of the City of Surrey in southwestern BC. The Township's borders extend south from the Fraser River to the U.S. border, and west of the City of Abbotsford. The Township's vision is to build a legacy for future generations by leading and committing the community to a lifestyle that is socially, culturally, economically, and environmentally balanced. The Township employs approximately 1,200 people.

Charging Infrastructure

The Township owns 4 x Level 2 (208V) stations that are dedicated to fleet and staff charging at both Civic Facility and Operations Centre. There are additional Level 2 chargers at 3 other recreation centres that are available for staff use. In 2018, upgrades are planned for EV infrastructure at the Walnut Grove Community Centre and Civic Facility. All installations are designed for scalability and expansion of infrastructure in future years.

Station Management Program

The Township does not have an official management program in place. Employees who own EVs self-

**Township of
Langley**



Est. 1873

regulate by using open communication with each other through a corporate email list. As there are currently more vehicles than available chargers, employees message each other about moving their vehicle after a charging session, or they will plug in the EV next to the charger after their session is finished.

Cost of EV Charger Installation

The Township budgets \$5,500 - \$25,000 CAD per location for an entire Level 2 EV charger installation, including electrical fees, permits, curbside remodeling, hardware and any unforeseen costs related to the project. Costs for Level 2 chargers vary greatly depending on the site and amount of civil work required for the install. Costs for DCFC installation are budgeted for up to \$120,000 depending on location. The Township monitors the EVSE usage through monthly reports on the amount of electricity consumed provided by the station network. The EVSEs are all networked which allows for close monitoring of energy consumption.

To learn more about Township of Langley's Workplace Charging Program:

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