



INFORMATION REPORT

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| TO: | Chair and Members Planning Committee |
| COMMITTEE DATE: | May 17, 2016 |
| SUBJECT/REPORT NO: | Electric Vehicle Charging Statistics for City of Hamilton Facilities (PED16118) (City Wide) (Outstanding Business List Item) |
| WARD(S) AFFECTED: | City Wide |
| PREPARED BY: | Sebastian Stula (905) 546-2424 Ext. 3940 |
| SUBMITTED BY: | Jason Thorne General Manager Planning and Economic Development Department |
| SIGNATURE: | |

Council Direction:

At the January 20, 2016 City Council meeting, Councillor Jason Farr requested an Information Report on the utilization of electric vehicle chargers (EV chargers) operating at City facilities.

At the April 19, 2016 Planning Committee meeting, Councillor Farr inquired about the cost of installing the EV chargers at the York Boulevard Parkade.

Information:

There are a total of 17 electric vehicle chargers at the following four City facilities:

| LOCATION | NUMBER OF EV CHARGING STATIONS |
|--|----------------------------------|
| York Boulevard Parkade 28 York Boulevard – Level 1B | 2 |
| Harry Howell (North Wentworth) Arena 27 Hwy 5 West, Flamborough | 10 |
| Tim Hortons Field 64 Melrose Avenue North | 4 |
| City of Hamilton Public Works Facility 330 Wentworth Street | 1 (not accessible to the public) |

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These EV chargers are maintained by staff of the Departments responsible for managing the facilities, and with the exception of the chargers at the York Boulevard Parkade, there is no information / statistics on usage. Usage statistics can only be obtained if there is an independent monitoring mechanism installed on the hydro supply. The York Boulevard Parkade is the only facility with this mechanism.

Utilization data at the York Boulevard Parkade for 2015 is as follows:

- charger 1 was operational for 885 hours;
- charger 2 was operational for 454 hours ;
- typical charging duration lasted from 3 - 4.5 hours;
- total electricity consumption for both chargers was 2,408 kWh; and,
- estimated hydro cost is \$360 based on 15¢ per kWh.

The cost of installing EV chargers at the York Boulevard Parkade in 2013 was \$11,200 (\$1,300 for each EV charging unit, \$1,900 for an independent hydro meter capable of data collection and \$6,700 for electrical service installation) which was funded by the Ward 2 Councillor.

It should be noted that although there are no EV chargers installed at the Convention Centre Parking Garage (located at 80 Main Street West), this facility also serves as a charging area for electric vehicles that have an adapter for regular electrical outlets. The facility has electrical outlets located on many of the structural pillars located beside parking stalls and is regularly utilized for vehicle charging.

SS:lm