

	Report Title	Natural Resources Canada – Electric Vehicle and Alternative Fuel Infrastructure Deployment Initiative
	Report No.	OPS 19-10
	Author	Kevin De Leebeeck, P.Eng. Director of Operations
	Meeting Type	Council Meeting
	Council Date	April 23, 2019
	Attachments	<ul style="list-style-type: none"> • OPS 18-14 Electric Vehicle Charging Stations • Project Application

RECOMMENDATION

THAT Council receive Report OPS 19-10 Natural Resource Canada – Electric Vehicles and Alternative Fuel Infrastructure Deployment Initiative;

AND THAT Council supports the submission of an application to Natural Resources Canada for the installation of a Level 3 Electric Vehicle Charging Station in Municipal Parking Lot 7A;

AND THAT Council commits to provide funding for its share of the project in the 2020 municipal budget;

AND THAT the Chief Administrative Officer be authorized to execute the attestation statement within the formal application

AND FURTHER THAT Council approves the relocation of the Level 2 Electric Vehicle Charging Station to Municipal Parking Lot 3B.

BACKGROUND

In early May 2018 County Council approved an Electrical Vehicle Charger Feasibility Study prepared by the Canadian Urban Transit and Innovation Consortium (CUTRIC) that reviewed existing and projected electric vehicle traffic within and through Oxford County. This study provides a guide for future installation of electric vehicle charging stations and highlighted eight (8) locations within Oxford County where Level 3 chargers should be installed including Municipal Parking Lot 7A (east of the Town Centre Mall)

As mentioned in attached Report OPS 18-14 the Downtown Parking and Accessibility Study was also approved by Town Council in early May 2018 and identified locations for electric vehicle charging stations that are spatially distributed throughout the Downtown. The Study recommended that the first two electric vehicle charging stations be located in Municipal Parking Lot 7A and 3B. These two parking lots are large in terms of capacity, reducing the relative impact on parking operations and are located on opposite sides and ends of the Downtown.

Further to Report OPS 18-14 the installation of the Level 2 Electric Vehicle Charging Station at the Tillsonburg Community Centre is currently underway and will be completed by the end of April, however it has been discovered that there is insufficient capacity within the existing hydro transformer to facilitate the installation of the Level 2 Electric Vehicle Charging Station in Municipal Parking Lot 7A without additional hydro infrastructure upgrades.

SUMMARY

In late February 2019 Natural Resources Canada released Phase 2 of the Electric Vehicles and Alternative Fuel Infrastructure Deployment Initiative to accelerate the electrification of transportation by increasing the number of electric vehicle charging opportunities across the Country. Phase 2 investment of approximately \$80M has a goal of installing 900 electric vehicle fast-chargers, 15 natural gas stations and 12 hydrogen fuel cell stations. Application submissions must be submitted before May 16, 2019 and satisfy the following mandatory criteria:

- be new or increasing current capacity
- be open to the Public
- be located on lands owned by the applicant
- demonstrate engagement with the energy supplier
- resolution from the governing council that funds are available for the project

The selection of projects and notification to applicants is anticipated in July 2019 with finalization of Contribution Agreements in Fall 2019. If successful Level 3 chargers must be completed within 18 months after receiving approval and would be planned, procured and installed in 2020.

CONSULTATION/COMMUNICATION

The County would like to partner with the Town in proposing Tillsonburg Municipal Parking Lot 7A for Natural Resources Canada funding. Town and County staff have reviewed the program guidelines and have worked together to prepare the application, however the owner of the lands must be the lead on the project application.

FINANCIAL IMPACT/FUNDING SOURCE

Under the Natural Resource Canada – Electric Vehicles and Alternative Fuel Infrastructure Deployment Initiative the electric vehicle infrastructure component of the program will contribute up to 50% of eligible project expenditures, up to a maximum of \$50,000 per Level 3 charger.

The estimated cost to install a Level 3 Electric Vehicle Charging Station in Municipal Parking Lot 7A is summarized in **Table 1** and the associated funding model is summarized in **Table 2**.

Table 1: Estimated Project Cost

Item	Estimated Cost
Level 3 Electric Vehicle Charger	\$52,500
Electrical Service and Charger Installation	\$43,740
Contingency (10%)	\$9,500
Subtotal	\$105,725
Non-Refundable HST (1.76%)	\$1,860
Total	\$107,600

Table 2: Proposed Funding Model

Item	Estimated Cost
50% Natural Resources Canada Funding	\$50,000
25% Oxford County	\$28,800
25% Town of Tillsonburg	\$28,800
Total	\$107,600

The incremental cost of \$1,400 in installation costs to relocate the un-installed Level 2 Electric Vehicle Charging Station from Municipal Parking Lot 7A (\$6,400) to Municipal Parking Lot 3B (\$7,800) as identified in Report OPS 18-14 can be accommodated within the Public Works operating budget.

COMMUNITY STRATEGIC PLAN (CSP)

The installation of Elective Vehicle charging stations supports Objective 1 – Excellence in Local Government and Objective 4 – Culture & Community through the promotion of environmentally sustainable living.

Report Approval Details

Document Title:	OPS 19-10 Natural Resources Canada Electric Vehicle RFP.docx
Attachments:	- OPS 19-10 Attachment 1 - OPS 18-14 Electric Vehicle Charging Stations.pdf - OPS 19-10 Attachment 2 - Project Application.docx
Final Approval Date:	Apr 17, 2019

This report and all of its attachments were approved and signed as outlined below:

Dave Rushton - Apr 17, 2019 - 8:21 AM



David Calder - Apr 17, 2019 - 1:47 PM

Donna Wilson - Apr 17, 2019 - 1:52 PM