

Subject: Grant Application for Electric Vehicle Charging Stations

Recommendation:

BE IT RESOLVED THAT Council receive Report # 2022-0194 – Grant Application for Electric Vehicle Charging Stations, for information;

AND THAT staff are directed to include the 50% match of this grant in the amount of \$94,285 within the 2023 Capital Budget to be funded by the Fleet Reserve, for Council’s consideration.

Background:

On May 3, 2022, Council unanimously supported having staff investigate options for the installation of electric vehicle chargers through the following motion:

BE IT RESOLVED THAT Council receive Report # 2022- 0111 Information Regarding Electric Vehicle Charging Stations, for information;

AND THAT Council direct staff to investigate financial impacts of all options within the report and report back to Council if necessary;

AND THAT staff are directed to include associated costs to implementing the said options within the 2023 Budget for Council consideration.

As the Town is transitioning its light duty fleet to electric vehicles there will be a need to provide dedicated EV charging stations in the locations where the vehicles are stationed. Light duty fleet is predominately utilized by the Building, By-Law, and Engineering Departments and the average trip is made to and from remote work or inspections sites. There are a number of benefits to providing EV charging stations, including the alignment with the Town’s Climate Change Adaption Plan and broader environmental goals.

The installation of the EV chargers for The Town of Pelham will be focused on two (2) primary locations:

1: Town Hall – 20 Pelham Town Square, Fonthill ON. Pelham Town Hall location needs assessment has been identified through the current municipal workforce and

the transitioning light duty fleet that is dispatched from Town Hall. Based on current and projected usage, the installation of six (6) Level Two (2) chargers is planned.

2: Meridian Community Centre – 100 Meridian Way, Fonthill ON. The Meridian Community Centre (MCC), the hub for recreation in Pelham, is a 143,000 square foot facility that includes adaptable and multi-purpose community rooms, a large activity centre with two full courts, two NHL-sized arenas, an indoor walking/running track, concession areas, change rooms & washrooms, and an atrium/lobby area.

The facility hosts annual sporting and cultural events and welcomes over 100,000 visitors each year. Requests for public access charging stations from the community service clubs and organizations that utilize the space have continued to grow. Based on anticipated usage and requests, two (2) Level Three (3) fast chargers, each equipped to charge two vehicles simultaneously with output exceeding 50 kW, for a total of four (4) charging locations is planned. The two locations for the chargers will reach both the goal of meeting the needs of the Town of Pelham workplace as well as providing EV charging in public places. Both charging locations will be available based on the council approved usage rate billing fee, reviewed as part of the Town of Pelham annual rate and user fees schedule.

Key benefits and outcomes of the of the project include:

- Increased awareness of EV charging
- Access for workplace charging
- Access for light duty fleet vehicles
- Access for community and public use of EV charging within the municipality
- Alignment with Town of Pelham Climate Change Adaptation Plan

Analysis:

Canada's (NRCan) grant "Zero Emission Vehicle Infrastructure Program" for Town of Pelham Electric Vehicle (EV) Charging Stations funds up to 50% of the EV Charging Stations.

The installation of the EV chargers for The Town of Pelham will be focused on two (2) primary locations within the Town of Pelham. Locations were selected based on demand from both fleet and public access.

Both locations are municipally owned and Town staff are able to work with the manufacturers and hydro providers to ensure appropriate infrastructure for the EV units is in place. Both locations are high profile areas within the community.

Town staff have begun discussions with both hydro providers that cover the two separate locations to ensure availability of adequate power supply.

20 Pelham Town Square - Town Hall location:

- Installation of 6 new Level 2 chargers with Universal SAE J1772 connector
- Secure and install 6 new 2 pole 40A breakers in existing panel for new chargers.
- Complete all civil work for the installation
- Provide all site restoration including landscape, sidewalk, concrete and asphalt
- ESAESA permits

100 Meridian Way – Meridian Community Centre

- Installation of 2 new Level 3 EV chargers - Compatible with the CHAdeMO and SAE J1772 Combo protocols (Tesla compatible, w/ adapter) RFID card and/or mobile app authentication and payment
- Secure and install new 600V to 480V 115KVA 3 phase transformer
- Install New 3 pole 600V 100A breaker for existing panel
- Complete all civil work for the installation
- Provide all site restoration including landscape, sidewalk, concrete and asphalt
- ESA permits

Future expansion of the project with the Level 2 charges includes for allowance of additional charging ports.

Financial Considerations:

The total cost for these EV charging station is \$190,096 of which 50% is funded by this grant application in the amount of \$94,285. The other 50% will be funded by the Town and put forward in the 2023 Capital budget to be funded by the Fleet Reserve. The Fleet reserve has adequate funds for the 50% match of this grant.

The EV Charging Stations at the MCC will have debit and credit card options for non-Town vehicles to use the charging stations at no cost to the Town.

Alternatives Reviewed:

The alternative is not to apply for 50% of the grant and the Town will incur 100% of the cost of EV Charging stations.

Strategic Plan Relationship: Financial Sustainability

As the Town and public is moving towards purchasing Electric Vehicles, it is important for the Town to provide EV Charging Stations to the residents of Pelham and for Town-owned vehicles.

Consultation:

Director Public Works
 Manager Public Works

Other Pertinent Reports/Attachments:

None

Prepared and Recommended by:

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Prepared and Submitted by:

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