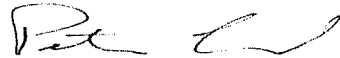


**Transportation Standing Committee  
Community Planning and Economic Development Standing Committee**

**TO:** Members of the Transportation Standing Committee and Community  
Planning and Economic Development Standing Committee



**SUBMITTED BY:** \_\_\_\_\_  
Councillor Peter Lund, Chair, Environment and Sustainability Standing  
Committee

**DATE:** May 18, 2011

**SUBJECT:** **Electric Vehicles**

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**ORIGIN**

Motion of the Environment and Sustainability Standing Committee for its May 5, 2011 meeting.

**RECOMMENDATION**

That the staff report dated April 15, 2011 entitled Electric Vehicles be forwarded to the Transportation Standing Committee and Community Planning and Economic Development Standing Committee for recommendation and other Committee direction on this subject.

## **BACKGROUND**

The Environment and Sustainability Standing Committee received a staff report and discussed anticipated work and opportunities related to Electric Vehicles.

Additional information can be reviewed within the attached staff report dated April 15, 2011.

## **DISCUSSION**

The Environment and Sustainability Standing Committee discussed this matter during their May 5, 2011 meeting and approved the following motion:

1. Direct Staff to prepare a Corporate Plan for location and investment of Electric Vehicle Charging Infrastructure for Corporate Fleet Vehicles;
2. Direct Staff to prepare a Policy for the incorporation of Electric Vehicle Charging Infrastructure in new Facility Development and Recapitalization projects;
3. Engage with the Development Community and Nova Scotia Home Builders Association regarding reviewing the recommended actions from the British Columbia Electric Vehicle Charging Infrastructure Deployment Guidelines;
4. Engage with the Nova Scotia Automobile Dealers Association regarding expectations on market penetration of electric vehicles in Nova Scotia;
5. Direct Staff to review revenue opportunities offered with the deployment of Electric Vehicle Charging Infrastructure; and
6. Forward this report and recommendation to the Transportation Standing Committee and Community Planning and Economic Development Standing Committee for recommendation and other Committee direction on this subject.

During the discussion, Councillor Watts noted the importance of reviewing the environmental impacts and identifying the implications there may or may not be to HRM's green print plan, urban design and public space.

## **BUDGET IMPLICATIONS**

Current recommendations will not cause any impacts to existing operating or capital budgets. Future plans will have future budget implications.

## **FINANCIAL MANAGEMENT POLICIES/BUSINESS PLAN**

This report complies with the Municipality's Multi-Year Financial Strategy, the approved Operating, Project and Reserve budgets, policies and procedures regarding withdrawals from the utilization of Project and Operating reserves, as well as any relevant legislation.

## **COMMUNITY ENGAGEMENT**

The Environment and Sustainability Standing Committee meetings are open to members of the public.

**ALTERNATIVES**

No alternatives were provided by the Environment and Sustainability Standing Committee.

Alternatives have been provided within the April 15, 2011 staff report.

**ATTACHMENTS**

Staff Report dated April 15, 2011.

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A copy of this report can be obtained online at <http://www.halifax.ca/council/agendasc/cagenda.html> then choose the appropriate meeting date, or by contacting the Office of the Municipal Clerk at 490-4210, or Fax 490-4208.

Report Prepared by: Krista Tidgwell, Legislative Assistant, Municipal Clerks Office, 490-6519


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**Environment and Sustainability Committee**  
**May 5, 2011**

**TO:** Chair and Members of Environment and Sustainability Committee

**SUBMITTED BY:**   
Phillip Townsend, Director, Infrastructure and Asset Management

**DATE:** April 15, 2011

**SUBJECT:** Electric Vehicles

#### **ORIGIN**

- Community Outcome Area: Clean and Healthy Environment Objectives
- Infrastructure and Asset Management Business Plan 2011/2012

#### **RECOMMENDATION**

It is recommended that the Environment and Sustainability Committee:

1. Direct Staff to prepare a Corporate Plan for location and investment of Electric Vehicle Charging Infrastructure for Corporate Fleet Vehicles;
2. Direct Staff to prepare a Policy for the incorporation of Electric Vehicle Charging Infrastructure in new Facility Development and Recapitalization projects;
3. Engage with the Development Community and Nova Scotia Home Builders Association regarding reviewing the recommended actions from the British Columbia Electric Vehicle Charging Infrastructure Deployment Guidelines;
4. Engage with the Nova Scotia Automobile Dealers Association regarding expectations on market penetration of electric vehicles in Nova Scotia;
5. Direct Staff to review revenue opportunities offered with the deployment of Electric Vehicle Charging Infrastructure; and
6. Forward this report and recommendation to the Transportation Standing Committee and Community Planning and Economic Development Standing Committee for recommendation and other Committee direction on this subject.

## **BACKGROUND**

As per the Electric Mobility Canada publication: Driving the Rapid Adoption of Electric Vehicles in Canada (<http://www.emc-mec.ca/files/DrivingTheRapidAdoptionOfPEVsInCanada-v3a.pdf>), Electric Vehicles are coming.

Electric Vehicles provide environmental benefits. Even though Nova Scotia electricity is coal based, Electric Vehicles are lighter (with no combustion engine) and much more efficient at turning energy into propulsion. This results in lower Greenhouse Gas Emissions per kilometer than fuel powered vehicles. Air quality benefits are improved as well.

Some predictions indicate about 2% to 5% market penetration in new car sales per year by 2015. This roughly translates to 2,000 to 5,000 cars in the Halifax Regional Municipality (HRM) annually.

With this new technology coming, there are opportunities and threats.

Transport Canada has created a primer on electric vehicles:  
<http://www.tc.gc.ca/eng/programs/environment-etv-evprimer-eng-1994.htm>

## **DISCUSSION**

In anticipation of the work and opportunities related to Electric Vehicles, HRM joined Electric Mobility Canada ([www.emc-mec.ca](http://www.emc-mec.ca)) for peer learning and collaboration.

Toronto and Vancouver are leading other Canadian municipalities in preparing for Electric Vehicles, so there is work that HRM staff and Councillors are able to look at and consider.

Toronto: <http://www.fleetwise.ca/>

Vancouver: [http://vancouver.ca/sustainability/electric\\_vehicles.htm](http://vancouver.ca/sustainability/electric_vehicles.htm)

In addition to this, BC Hydro partnered with several stakeholders and created a EV Charging Infrastructure Deployment Guideline:

[http://www.bchydro.com/etc/medialib/internet/documents/environment/EVcharging\\_infrastructure\\_guidelines09.Par.0001.File.EV%20Charging%20Infrastructure%20Guidelines-BC-Aug09.pdf](http://www.bchydro.com/etc/medialib/internet/documents/environment/EVcharging_infrastructure_guidelines09.Par.0001.File.EV%20Charging%20Infrastructure%20Guidelines-BC-Aug09.pdf)

All this work provides a template for HRM Staff, Council and Community Stakeholders to initiate policy and strategy related to the adoption of the technology.

## **BUDGET IMPLICATIONS**

Current recommendations will not cause any impacts to existing operating or capital budgets. Future plans will have future budget implications.

**FINANCIAL MANAGEMENT POLICIES / BUSINESS PLAN**

This report complies with the Municipality's Multi-Year Financial Strategy, the approved Operating, Project and Reserve budgets, policies and procedures regarding withdrawals from the utilization of Project and Operating reserves, as well as any relevant legislation.

**COMMUNITY ENGAGEMENT**

This report directs a level of community engagement in the recommendations.

**ALTERNATIVES**

The Committee may choose to not advance policy, but this is not recommended by staff.

**ATTACHMENTS**

None

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A copy of this report can be obtained online at <http://www.halifax.ca/commcoun/cc.html> then choose the appropriate Community Council and meeting date, or by contacting the Office of the Municipal Clerk at 490-4210, or Fax 490-4208.

Report Prepared by: Richard MacLellan, Manager, Sustainable Environment Management Office, 490-6056

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