

Environment & Sustainability Standing Committee
August 4, 2011

TO: Chair and Members, Environment & Sustainability Standing Committee

SUBMITTED BY: Reg Rankin
per: Reg Rankin, Chair, Transportation Standing Committee

DATE: July 13, 2011

SUBJECT: Electric Vehicles

INFORMATION REPORT

ORIGIN

Motion of the Environment and Sustainability Standing Committee from the May 5, 2011 meeting referring this matter to the Transportation Standing Committee and the Community Planning & Economic Development Standing Committee for input and direction.

Motion of the Transportation Standing Committee from the June 23, 2011 meeting.

The Transportation Standing Committee endorses recommendations one to five approved by the Environment and Sustainability Standing Committee at their May 5, 2011 meeting, as follows:

- 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. Direct staff to engage with the development community and the Nova Scotia Home Builders Association regarding reviewing the recommended actions from the British Columbia Electric Vehicle Charging Infrastructure Deployment Guidelines;*
- 4. Direct staff to 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.*

BACKGROUND

A report from the Environment & Sustainability Standing Committee dated May 18, 2011 was before the Transportation Standing Committee at their June 23, 2011 meeting. The report requested input and direction from the Transportation Standing Committee (as well as the Community Planning and Economic Development Standing Committee) on the subject of electric vehicle charging infrastructure.

DISCUSSION

The Committee briefly discussed the subject of electric vehicle charging infrastructure, during which the following points of discussion were raised:

- a future option could be to install charging infrastructure at Park and Ride Terminals;
- staff need to consider what would be required to allow this infrastructure;
- long term planning for this infrastructure is required;
- if charging infrastructure were to be installed at service stations, there may need to be a by-law or planning process to regulate such activity.

The Committee agreed to endorse the five initiatives outlined by the Environment & Sustainability Standing Committee at their May 5th meeting, to initiate strategic planning around this future need.

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 Transportation Standing Committee is comprised of eight duly elected members of Council. Composition is made up of a member from each of HRM's six Community Councils, along with two members at large.

Transportation Standing Committee meetings are held once a month and are open to the public, unless otherwise stated. Agendas, reports, and minutes from these meetings are posted online.

ALTERNATIVES

None

ATTACHMENT

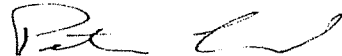
1. Report dated May 18, 2011 from the Environment & Sustainability Standing Committee to the Transportation Standing Committee.

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: Jennifer Weagle, Legislative Assistant, Municipal Clerks Office, 490-6517

**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**

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

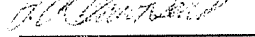
Staff Report dated April 15, 2011.

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

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) 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

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

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

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
