



Technology Road Map for Electric Vehicles in Canada (evTRM)

**A report to PHEV 09
September 29, 2009**

A partnership effort between:



Electric
Mobility
Canada

Mobilité
électrique
Canada



Natural Resources
Canada

Ressources naturelles
Canada



Transport
Canada

Transports
Canada



What is a Technology Road Map?

The Technology Roadmap (TRM) concept is a consultative process that is designed to help industry, its supply-chain, academic and research groups, and governments come together to jointly identify and prioritize the technologies needed to support strategic R&D, marketing and investment decisions. These technologies will be of critical importance to an industry in the next five to ten years.



The Steering Committee

CHAIR:



VICE-CHAIR:



Electric
Mobility
Canada

Mobilité
électrique
Canada



UNIVERSITY
OF MANITOBA



Road Map Objectives

- Encourage the rapid adoption of EVs for passenger and commercial transport markets in Canada through appropriate regulations, incentives, infrastructure and education/awareness.
- Develop the EV industry in Canada in areas where Canada has a competitive advantage.
- Power these vehicles with new green electricity.



The Process

- Vision meeting – Ottawa – June 26
- User Needs Meeting – Montreal – Sept 11
- Technology Responses – Vancouver – Nov. 4
- Validation – Toronto – Nov. 25
- Report writing - to August 09



Draft of Vision Proposed

By 2018, in addition to Hybrid Electric Vehicles, there will be at least 500,000 other highway capable – plug in electric drive vehicles on the road in Canada. These vehicles will have increased Canadian content over current 2008 internal combustion engine vehicles.

This vision statement acknowledges the environmental, economic, social and strategic necessity to move from fossil fuels to electric mobility solutions for on-road transportation in Canada.



Three key recommendations

1. Make timely and substantial investments in Canadian development and manufacture of EVs and energy storage devices to build on Canada's already strong presence in these industries.
2. Consider supplementing federal and provincial mechanisms to promote the development, public acceptance, and procurement of personal and commercial EVs, and also the installation of charging infrastructure.
3. Reconstitute the Steering Committee as a Roadmap Implementation Committee charged with ensuring that the strategic initiatives identified in the Roadmap are addressed.



Strategic Initiatives flowing from the recommendations

- Technology – 4
- Codes, standards, regulations and infrastructure readiness – 5
- Studies and assessments – 10
- Education and outreach - 2



Expected evTRM benefits

- Closer collaboration between industry and governments.
- Acceptance at highest political levels that EVs make imminent sense for Canada and that Canada has unique assets with which to lead in EV developments.
- Acceleration of supportive policies, programs needed.
- Canadians become convinced of the merits of EVs.
- Reduced emissions and import of fossil fuels.



Timely implementation is critical

- EMC has identified its team for the Implementation Committee.
- EMC has identified needed actions, actors, timelines and performance indicators for each of the initiatives.
- EMC expects rapid and appropriate response from the Gov't of Canada and other levels.





Our appreciation to:

- Natural Resources Canada
- Transport Canada
- evTRM Steering Committee
- Final editing committee
- All participants
- Consultants and report writers

