



Our **Mission** is to establish electric mobility, in all its forms, as the primary solution to Canada's growing transportation energy issues and to assist its members in the fulfillment of their mandate.

January 2010

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New Members

EMC is pleased to welcome the following new member:

Accelerated Systems Inc. (as an industry member)

575 Kumpf Drive
Waterloo, ON N2V 1K3
Fax: 519 342 2508

www.accelerated-systems.com

Rob Lankin
President

Tel: 519 342 2507, Ext 122

Email/Courriel: rlankin@accelerated-systems.com

See <http://www.emc-mec.ca/content/our-members>
for a complete membership directory.

EMC News

Electric Vehicle Technology Roadmap (evTRM)

Natural Resources Canada (NRCan) advises that the full report, identifying the actions needed to accelerate the introduction of electric-traction vehicles in Canada, should be published in less than a month. EMC responded to a request from NRCan to submit a proposal on coordinating an implementation plan for evTRM. Federal interdepartmental consultations on the government's response to the roadmap continue. The federal government has invited EMC leaders to a February meeting to hear the outcome of these consultations.

EV-supportive codes and standards are on the way.

As recommended in the evTRM, EMC and the Canadian Standards Association (CSA) are collaborating on launching a major, three-year project to update and upgrade Canada's electrical and building codes to accommodate EVs. While such activity is already advanced in the U.S., the work here is only beginning and is ultimately intended to harmonize Canadian and U.S. codes and regulations. CSA will provide the secretariat and research services for this major project and is now seeking funding from a variety of Canadian public and private sources. Ken Elsey of the Canadian Energy Efficiency Alliance will chair the main project committee; EMC's Al Cormier will co-chair.

EMC Business Plan 2010. The EMC Board approved the plan in November 2009, and it is available on the EMC web site at <http://www.emc-mec.ca/content/2010-business-plan-full>. Activity on several of the business plan actions is underway and will be reported to the EMC Board on a monthly basis.

EMC is pleased to announce that it has retained **Lisa E. Boyes as its part-time Communications Coordinator** an action recommended in the Business Plan. A communications specialist in science and technology, Lisa works as a private consultant with clients in health care, higher education, industry R&D, and economic development. Her expertise reflects diverse experience and skills in project direction and management, print and online publications, proposal development for private-sector funding and public-sector grant support, and public relations. Lisa holds a B.A. (French Language and Literature) from the University of Ottawa, a Journalism Certificate from Humber College of Applied Arts and Technology, and has completed coursework toward her Master's of Education from the Ontario Institute for Studies in Education of the University of Toronto (OISE/UT). For EMC, Lisa will be responsible for editing the monthly newsletter, web content development, media relations projects, and other priority projects as identified. She looks forward to working with EMC, its members and stakeholders.

EV 2010 VÉ - Electric Vehicles/Véhicules

Électriques. Our 2010 Conference and Trade Show takes place at downtown Vancouver's Sheraton Wall Centre Hotel from September 13 to 16. Planning activities are well underway, including the following committees:

- Organization Committee, with overall responsibility for the conference, chaired by Mark Dubois-Phillips of B.C. Hydro;
- The Technical Program Committee, charged with developing technical sessions, is co-chaired by Jim Perkins of Metro Vancouver and Tabitha Takeda of Transport Canada;
- The Communications Committee is chaired by Aileen Penner of B.C. Hydro;
- The Trade Show Committee is chaired by Steve Dallas of Toronto Electric.

EMC has again retained the services of JPDl, the international event planning firm that managed PHEV

For more information, please contact:

Electric Mobility Canada, Suite 309, 9-6975 Meadowvale Town Centre Circle, Mississauga, Ontario Canada L5N 2V7
Tel: 416 970 9242 Fax: 905 858 9291 Email: al.cormier@emc-mec.ca



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09, to handle EV 2010 VÉ and the logistics and many details that lead to successful events. The 2010 conference web site will be available shortly to promote the event, the conference program and related activities. Buoyed by the successful PHEV 09 in Montreal, which attracted more than 400 delegates, this year's organizers are focusing on the attributes of Vancouver and B.C. to draw even higher attendance. Delegates will be very interested to see the many forms of electric transportation already in place in the Vancouver region and B.C.'s Lower Mainland. Delegates will be able to ride the all-electric Canada Line (see story following) from the airport to the conference hotel.

EVS 25, the 25th global electric vehicle symposium, is taking place in Shenzhen, China from November 5 to 9, 2010. The deadline for this year's call for abstracts is April 30, 2010. Details can be found at www.evs25.org. EMC is now in discussions with the Department of Foreign Affairs and International Trade (DFAIT) and the Automotive Parts Manufacturers' Association (APMA) to establish a mechanism for the Canadian EV industry to display their products and services at the large trade show that accompanies the EVS 25 conference. EMC led a Canadian delegation to EVS 24 in Norway in May, 2009 and looks forward to successful participation in EVS 25. For further information, please contact Al Cormier, al.cormier@emc-mec.ca.

Member News

(Members are reminded to send us their media releases and other company announcements for use in this newsletter)

Hydro-Québec, along with Mitsubishi Motor Sales of Canada Inc. (MMSCAN), have signed a memorandum of understanding that will lead to the launch of Canada's largest, all-electric-vehicle pilot project in fall, 2010. Working with the City of Boucherville, Hydro-Québec will test the performance of up to 50 Mitsubishi i-MiEVs under a variety of circumstances, notably winter conditions. The \$4.5 million-project is the first of its kind to include a public utility, a car manufacturer, a municipality and local businesses, which will integrate the vehicles into their existing fleets for the pilot. The project is a major step forward in Hydro-Québec's plan

to integrate EV technology into the grid and to plan the necessary charging infrastructure for homes, offices and public places. The City of Boucherville is also playing an important role in the utility's upcoming, interactive smart-zone trial. The i-MiEV is an all-electric, highway-capable, charge-at-home commuter car, with battery, motor and other components stored beneath the floor for greater interior and cargo space. The i-MiEV won the Japanese Car of the Year award at the 2009 Tokyo International Motor Show.

Vancouver's Canada Line exceeds ridership expectations.

Vancouver enjoys many forms of electric transport in its public-transit system. Its newest all-electric service – the Canada Line – has occasionally topped 100,000 in daily ridership, which is the break-even threshold for operating cost recovery. That level comes about three years ahead of schedule. Including weekends, the Canada Line is averaging 92,852 riders a day, said Steve Crombie, spokesman for InTransitBC, builder and operator of the system: "The trend is increasing. We've been seeing weekly increases since the line started."

Future Vehicle Technologies of Maple Ridge, B.C. has entered its eVaro vehicle in the X Prize and was recently featured by CBC. [Click here to view the CBC video.](#) Future Vehicle Technologies' Todd Pratt is excited about the potential for its eVaro vehicle, which is expected to be a top contender in the international competition.

Magna International Inc. joined the ranks of companies displaying at the 2010 North American International Auto Show in Detroit from January 11 to 15. Magna's exhibit highlighted green-car technologies from across its operating units and introduced E-Car Systems, Magna's new global operating unit that integrates Magna's broad range of electrification capabilities. Magna has also begun development of next-generation systems and components, including a collaborative project with Ford Motor Co. on a fully electric, zero-emission BEV for the U.S. market in 2011.

Coincident with the auto show in Detroit, a group of Magna's Senior Managers met with EMC's Al Cormier at the Aurora, ON Magna headquarters to review the

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evTRM report and discuss its implementation and potential impact on EV developments in Canada.

NRCan's Clean Energy Fund Program has given the University of Manitoba, Dr. Eric Bibeau and his team, funding for a demonstration project to address electricity storage for renewable and high-density urban applications. The project will focus on utility-scale electricity-storage systems using new and repurposed automotive batteries. This concept will reduce the cost of EV batteries, providing a future market to meet urban electricity demand. The lead on the project is Montreal-based CEATI International Inc. Demonstration sites will include Toronto and Cornwall, Ontario; and Manitoba. For more information on the Clean Energy Fund, visit: <http://www.nrcan-nrcan.gc.ca/php>

Other EV Accelerators

The carbon intensity of transportation fuels in B.C. must now be reduced by 10 percent by 2020. On December 21, 2009, the Ministry of Energy, Mines and Petroleum Resources enacted the amended requirement under the B.C. Greenhouse Gas Reduction (Renewable and Low Carbon Fuel Requirements) Act, passed in May, 2008. The December 2008 regulation had set a five-per-cent annual average renewable-fuel requirement for 2010.

The low-carbon fuel requirement aims to establish a sustainable market for low-carbon and renewable fuels. The requirement uses life-cycle analysis to determine the overall carbon intensity of fuels used for transportation and includes all factors associated with each fuel. This includes exploring and producing fossil fuels; producing crops for biofuels; and refining, transporting and using each fuel.

The life-cycle approach gives industry compliance options that include: changing the fuel mix, improving refining efficiency, or improving agricultural practices for growing biofuel crops. The low-carbon fuel requirement will be phased in:

- industry reporting only in 2010;
- carbon-intensity reduction of 0.25 per cent in 2011;

- increasing annual carbon-intensity improvements to a total reduction of 10 per cent in 2020.

The renewable-fuel requirement is expected, on average, to have an impact in the range of an additional one cent per litre. As renewable-fuel supplies increase, this cost is expected to decrease.

The increased use of renewable and low-carbon fuels is part of a broader energy strategy to help B.C. reduce greenhouse gas emissions by 33 per cent by 2020. For more information on the Renewable and Low Carbon Requirements Regulation, please visit

<http://www.empr.gov.bc.ca/RET/TransportationPolicyPrograms/LCFRR/Pages/default.aspx>

Quebec has adopted the most stringent regulations in North America for vehicle emissions.

On December 29, 2009, the Honourable Line Beauchamp, Quebec's Minister of Sustainable Development, the Environment and Parks, announced that the province has adopted the California regulations for emissions from passenger vehicles and light-duty trucks marketed for the years 2010 to 2016. This is part of Quebec's plan to reduce its greenhouse-gas emissions by 20 per cent below 1990 levels by 2020. Quebec becomes the first Canadian province to adopt the California regulations, which will reduce Quebec's dependence on petroleum. The regulation favours a wide range of alternative vehicles. Beauchamp's announcement singled out electric and hybrid vehicles as desirable technologies. To see the full regulation, visit <http://www.mddep.gouv.qc.ca/changements/ges/reg-ges-vehicule-en.pdf>.

Global EV manufacturer THINK to launch one of the world's first highway-capable urban EVs for the North American market.

THINK announced from Oslo, Norway on January 5, 2010 its plan to start production in Elkhart County, Indiana of the THINK City EV. The company plans to invest \$43.5 million in building improvements and equipment in Elkhart County. The plant could begin assembling vehicles in early 2011 and will support manufacturing capacity of more than 20,000 vehicles a year.

London Mayor Boris Johnson has launched the Electric Vehicle Delivery Plan, which will situate an electric-vehicle charging station within one mile of each Londoner in five years. The plan calls for the installation of 25,000 charging points at public,

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residential and commercial spaces by 2015 in order to encourage the addition of 100,000 EVs within the city. The city is also adding 1,000 EVs to the Greater London Authority fleet over five years. These strategies build on the city's successful implementation of congestion pricing in 2003. London has also added [hybrid double-decker buses](#), converted the [Scotland Yard fleet](#) to hybrids and air-powered vehicles and is testing [state of the art fuel-efficiency technology](#).

Through its Plugged-In Places program, the UK is adding thousands of new EV and PHEV charging points in England, Scotland, Wales and Northern Ireland. This 30-million-pound infrastructure investment is part of an overall 400-million-pound plan to encourage development and manufacturing of electric-powered and ultra-low carbon cars as an everyday feature on UK roads within five years. Local authorities, businesses, electricity distributors, suppliers and other organizations will be able to apply for the 30-million pounds in two phases. Applicants will need to demonstrate how their plans fit into objectives such as improving air quality and encouraging the uptake of electric vehicles.