



**Our Mission** is to support the efforts of our members in driving the adoption of electric mobility technologies by Canadians as key means of achieving sustainability in transportation and to position Canada as a global leader in developing and implementing electric mobility in all modes of transport.

January 2011

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### New Members

EMC is pleased to welcome the following new members:

**Subaru Canada Inc.** (as an industry member)  
560 Suffolk Court  
Mississauga, ON L5R 4J7  
Fax/Télécopieur:  
Web site/Site web: [www.subaru.ca](http://www.subaru.ca)  
Bruce McLeod  
Director, National Dealer Development  
National Fleet Sales and Marketing  
Tel: 905 568 4959  
Email/Courriel: [bmcleod@subaru.ca](mailto:bmcleod@subaru.ca)  
*Automobile Marketing and Distribution*

**Mitsubishi Motor Sales of Canada, Inc.** (as an industry member)  
2090 Matheson Blvd. East  
Mississauga, ON L4W 5P8  
Fax/Télécopieur: 905 214 9089  
Web site/site web : [www.mitsubishi-motors.ca](http://www.mitsubishi-motors.ca)  
Tomoki Yanagawa  
Vice President – Sales/marketing & Corporate Planning  
Tel: 905 214 9065  
Email/Courriel: [tyanagawa@mmcan.ca](mailto:tyanagawa@mmcan.ca)

**Secor Conseil** (as an industry member)  
555 boul. René Lévesque ouest, 9<sup>e</sup> étage  
Montréal, QC H2Z 1B1  
Fax/Télécopieur: 514 861 0281  
Web site/site web : [www.groupeSecor.com](http://www.groupeSecor.com)  
Jocelyn Leclerc  
Partner  
Tel: 514 866 6872  
Email/Courriel: [jleclerc@groupeSecor.com](mailto:jleclerc@groupeSecor.com)  
Strategy and Transformation

**City of Hamilton** (as an End User member)  
Central Garage  
330 Wentworth Street North  
Hamilton, ON L8L 5W2  
Fax/Télécopieur: 905 546 2866  
Chris Hill  
Manager – Central Fleet  
Tel: 905 546 2424 x 4593

Email/Courriel: [chris.hill@hamilton.ca](mailto:chris.hill@hamilton.ca)

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

### News from EMC

**EMC recommendations to the Government of Canada** – Submitted to Ministers and policy makers in various federal departments in early December 2010, EMC's position paper titled "Driving the Rapid Adoption of Electric Vehicles in Canada" has also been presented to various Members of Parliament by various members of EMC. The paper recognizes the financial constraints facing our Federal Government and proposes a modest two-year program worth \$56.5 million to cover a wide variety of EV initiatives the Government should undertake. EMC is hopeful that its recommendations will find their way into the March 2011 Federal budget.

**New EV initiatives in the USA** - Tuesday night January 25, in his State of the Union speech, President Obama announced a goal of one million electric vehicles on U.S. roadways by 2015. The next day, Vice President Joe Biden was at a battery plant in Indiana explaining how the Administration plans to make it happen. Elsewhere, lawmakers were calling for more tax credits for manufacturers producing EVs. But that's just for starters in what has been an eventful week in the EV world. Biden said the Administration wants to push EV adoption by swapping the \$7,500 tax incentive currently available to EV buyers into a rebate available to purchasers at point of sale. And, a Michigan lawmaker proposed boosting the number of tax credits car manufacturers can get for EVs to 500,000 – up from today's 200,000 vehicle cap. The VP said the White House also wants to increase R & D for EVs and to launch a competitive grant program that would give 30 communities \$10 million apiece to encourage electric cars, for instance by making charging easier.

**evTRM (Electric Vehicle Technology Roadmap)**  
The Implementation Committee held another meeting on January 19 and agreed on the list of items to be taken to the February 28<sup>th</sup> meeting of the HUB Committee in Ottawa. This is the senior Government-Industry Committee that receives these

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recommendations and assigns them to government departments or industry sectors for the implementation of the actions proposed. At its January 28<sup>th</sup> meeting in Ottawa the HUB Committee adopted all the recommendations that had been processed by the evTRM Implementation Committee. These include:

- Requiring that publicly funded EV demonstrations follow the guidelines in the EMC report on “Demonstrating Electric Vehicles in Canada”. These are guidelines for the data elements to be collected during a demo.
- Striving to fund more demonstration projects as possible through funds being made available in approved budgets.
- Examining the creation of a “National Aggregator” within NRCAN’s CANMET Division for data from all EV demonstrations in Canada.
- Adding electric buses to the scope of the evTRM and agreeing to consider the recommendations flowing from the electric bus roadmap currently under development in Quebec.
- That Transport Canada establishes harmony with the US on 3-wheel vehicle certification.

The HUB Committee also noted several recommendations under development by the evTRM sub-committees and looks forward to receiving the completed recommendations. The evTRM Implementation Committee expects to complete the identification of needed actions to implement the 21 strategic initiatives from evTRM by the end of March 2011. The HUB Committee will meet again in early April 2011.

**2012 EMC conference and trade show to be held in Montreal.** EMC is pleased to report that it has accepted an invitation from Hydro-Québec to hold its 2012 conference in Montreal. It is the wish of both EMC and Hydro-Québec to extend an invitation to our international contacts and develop a program of interest to the international community.

**EMC retains communications firm.** As part of its continuing efforts to better serve its members and to communicate issued effectively, EMC has retained the services of the Burlington, Ontario firm Interkom to

assist EMC in all its communication activities. The firm’s contacts with EMC will be the President Martin VanZon and Project Manager Lee Zhang. The effective date of this new service is February 1.

**et 2011 Conferences in Alberta.** Each year, the Alberta Council of Technologies adopts a technology sector for conferences and workshops and at the end of the year establishes an on going Council to pursue the identified opportunities. For 2011, they have identified the electrification of transportation as a worthwhile subject to pursue and have asked EMC to co-host the events planned. The EMC Board has approved EMC’s role as a co-host. Planning is underway for a June event in Calgary and the October event in Edmonton. Each event will include a conference and trade show. In addition, two dinner conferences are planned for February in Edmonton on February 8 and Calgary on February 10. At these dinner workshops the topic of electric transportation is introduced and interest in the June and September events is promoted. For details, see <http://www.abctech.ca/> for details and registration.

#### **National Plug in Initiative (NPVI)**

This is an initiative in which EMC partners with the Electric Drive Transportation Association (EDTA) which intended to assemble all in one place the information and data needed for the technical and policy administration of electric traction in transport. The efforts to date have concentrated on a web site called GO Electric Drive available at <http://www.goelectricdrive.com>. EMC and EDTA representatives met in late January and agreed on actions required on both sides to continue the work of NPVI and more particularly to increase the participation by Canadians on the NPVI Committees and in the submission of information for the Go Electric Drive web site. EMC industry members will be able to submit their company’s information as a benefit of EMC membership.

**On line directory.** With the financial support of Natural Resources Canada, EMC is moving ahead with moving its membership directory on line and also bring on line the 2008 Directory of Electric Mobility Resources in Canada. Once set up, members and non-members will be able to enter their information on line and the resulting document will always be on our

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web site. We plan on special recognition for EMC members and the new directory is expected to be ready by the end of March.

**Webinars on Business Opportunities in electric vehicles.** With the support of the National Research Council Industrial Research Assistance Program, EMC coordinated three Webinars on Business Opportunities in Electric Vehicles. Two were conducted in English and one in French. Over 150 persons with different levels of knowledge about EVs participated and we understand that they were satisfied with the contents. To see the presentations used during the Webinars, see <http://www.emc-mec.ca/en/comingevents.php>

#### News from Members

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

MONTREAL, Dec. 20 /CNW Telbec/ - Hydro-Québec and Mitsubishi Motor Sales of Canada Inc. (MMSCAN) are pleased to announce that the first five all-electric i-MiEVs have arrived in Boucherville and are currently being prepared for their new drivers. Once installation of the data logging equipment that will be used during the trials is complete, Boucherville Mayor, Jean Martel, and employees from the City of Boucherville, the Centre de santé et de services sociaux Pierre-Boucher and Hydro-Québec will be able to pick up the test vehicles, just in time for the holidays.

Hydro-Québec will be leading the road tests that aim to evaluate the performance of up to 50 all-electric Mitsubishi i-MiEVs under a variety of circumstances, notably winter conditions. The project, that was announced at the Montreal International Auto Show in 2010, is designed to study the users' charging habits, driving experience and overall satisfaction as well as vehicle behaviour when interfaced with

**GM China unveils electric concept Sail.** *International Business Times* 12.22.10

General Motors China introduced an electric concept vehicle Sail at the 2010 Guangzhou Auto Show on Tuesday. The Sail electric concept vehicle is powered by a lithium-ion battery with maximum output of 65 kW and maximum torque of 220 Nm. It has a maximum

speed of 130 km/h and can go up to 150 kilometres on a single electric charge. It uses regenerative braking to produce additional energy. For more information, see <http://hken.ibtimes.com/articles/94534/20101222/gm-sail.htm>

**Canada Post adds first all-electric delivery van.**

*Canadian Transportation & Logistics* 12.21.10

Canada Post has taken delivery of what it claims to be the first Transit Connect Electric commercial delivery vehicle in Canada. The all-electric commercial van is built on a Ford Transit Connect vehicle body with Azure Dynamics' Force Drive battery-electric powertrain. It's the first of 10 emissions-free battery-powered delivery vehicles that Canada Post has committed to purchasing. The remaining units will be put into service in 2011, Canada Post announced. For more information, see

<http://www.ctl.ca/issues/story.aspx?aid=1000397470>

**Electric vehicles in for remarkable ride in 2011**  
**Reuters**

The first Chevrolet Volts, Nissan Leafs, and Smart EDs were delivered in December, but in the annals of history, 2011 will be remembered as the year that electric vehicles (EVs) arrived. EVs for sale to consumers will dominate the headlines throughout the year as average Americans begin to recognize EVs as the roll down the road. Because of the stalled start in the 1990s, when consumers were tempted by and then denied access to GM's EV1 and other EVs, every milestone during the year will be magnified in the media. By year's end nearly 50,000 EVs will be plugging in at garages and lots across America.

**Ford Unveils Its First All-Electric Car.** *Discovery News* 09.01.11

Ford unveiled its first strictly electric car on Friday, a Focus which is expected to get up to 100 miles (160 kilometers) on a single charge and will be available in North America late this year. Alan Mulally, chief executive of the number two U.S. automaker, introduced the four-door passenger car at the annual Consumer Electronics Show in Las Vegas. Mulally declined to detail the hatchback's total range or how much it would cost, but a Ford spokesman said the Focus Electric's mileage on a single charge would be

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"competitive" with similar electric vehicles such as the Nissan Leaf.

<http://news.discovery.com/tech/ford-unveils-its-first-all-electric-car-110109.html>

#### **Electric cars win top awards at Detroit motor show.**

*The Guardian 10.01.11*

Eco-friendly cars won the top awards at the US's largest auto show in Detroit as analysts bet rising oil prices and wider acceptance of electric cars will push consumers to go green. General Motors's Chevrolet Volt was named North American Car of the Year as the 2011 show began in Detroit. The Volt, a hybrid powered by both petrol and electric, beat Nissan's all-electric Leaf to take the top prize. Car industry analyst Alan Baum said "range anxiety" was still hampering the perception and sales of electric vehicles. He said people were worried about running out of zap in an all-electric car and that hybrid models like the Volt were a more comfortable option.

<http://www.guardian.co.uk/business/2011/jan/10/electric-cars-top-awards-detroit-motor-show>

#### **Azure Dynamics Receives Record 600 Unit Balance™ Hybrid Truck Order Via Its First Multi-year Contract With Purolator**

**Michigan - January 17, 2011** - Azure Dynamics Corporation (TSX: AZD)(OTC:AZDDF), a world leader in the development and production of hybrid electric and electric components and powertrain systems for commercial vehicles, today announced that it has received a record 600 unit order from Purolator. The order is the single largest order of hybrid electric technology for Azure Dynamics. 200 units will be delivered in 2011 with an additional 200 units scheduled in both 2012 and 2013, subject to annual authorizations by Purolator.

**Ram Plug-in Hybrid Electric Truck Equipped with Electrovaya Battery Showcased at Washington D.C. Auto Show - Toronto, Ontario – January 27, 2011** – Electrovaya Inc. today announced that Chrysler's Ram Truck Plug-in Hybrid Electric Vehicle (PHEV), equipped with Electrovaya's 12 kWh *Lithium Ion SuperPolymer®* Battery System, is being showcased in public for the first time at the Washington D.C. Auto Show.

Electrovaya was selected by Chrysler as a key supplier partner for the RAM Plug-in Hybrid development, which was initiated last year as part of the American Recovery and Reinvestment Act DOE Vehicle Electrification Program. The RAM Truck is one of Chrysler's top selling vehicles and the Plug-in Hybrid Electric version (powered by both battery and gasoline) is a full-size truck with Advanced Technology Partial Zero Emissions capability and is able to travel up to 20 miles on electricity only. Delivery of the PHEV Ram trucks is expected to begin this summer.

#### **Other EV Accelerators**

#### **Laval's Transit Authority (STL) puts its trolley bus plan on hold.**

STL first wants to test all electric buses. According to a recent feasibility study, the implementation of a trolley bus network may not be the most advantageous solution in planning for the 2030 horizon and the total electrification of the STL bus fleet may have superior advantages. Certain electric bus models will be tested during 2011 or winter of 2012 in collaboration with Hydro-Québec.

#### **Loon Swims Away With Top Prize Solar-Powered Boat Acclaimed As Best New Electric Vehicle at International Conference 2010.** 12.23

Tamarack Lake Electric Boat, a Canadian company from Orillia Ontario and their newest version of their innovative solar boat product line took a first place finish at the "Future of Electric Vehicles" conference and exhibition in San Jose, California. Innovators from around the world found their way to the conference, which focused on "land, water and air" borne vehicles powered by efficient batteries and electric motors. Electric boats, coupled with solar-produced energy, are at an enviable position as far as consumer acceptance

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and practicalities go”said Monty Gisborne of Tamarack Lake Electric Boat.

**12.27.10 Seoul Starts Operations of Electric Buses -- First in the World.** *PR Newswire 12.27.10*

The Seoul Metropolitan Government announced that it has started commercial operation of eco-friendly full-size electric buses on the Mt. Namsan circular routes as of December 21. It is the first time in the world that electric buses have been put into commercial operations. Electric bus services will lead the technology of large-sized electric vehicles in the global electric car market, the City said. The electric coaches serving on the Mt. Namsan circular routes run up to 83km with a single charge. They can be fully charged in less than 30 minutes with a high-speed battery charger. The electric bus, with its maximum speed of 100 km/hr, adopts a high-capacity lithium-ion battery and an energy saving system that can collect and reuse energy generated from brakes when running downhill.

<http://www.prnewswire.com/news-releases/seoul-starts-operations-of-electric-buses---first-in-the-world-112494859.html>

**President Obama signs Pedestrian Safety Enhancement Act.** U.S. President Barack Obama signed into law the Pedestrian Safety Enhancement Act that is said to provide extra protection to blind people and other pedestrians from new vehicles whose engines are becoming more silent. With the auto industry relying more and more on green technologies, including hybrids and electric vehicles, which are replacing traditional combustion engines with new, electric motors, blind people are more prone to accidents since their only way to guide on the street is by hearing the sound of vehicle engines. [MORE](#)

**Ministerial body under PM to be set up to jumpstart the electric car market in India.** *The Economic Times 13.01.11*

A ministerial body will be set up under Prime Minister Manmohan Singh to jumpstart the electric and hybrid car market in the country. The National Council on Electric Mobility will consider incentives to make green vehicles a viable option for two-wheeler and car

buyers. A national policy for electric vehicles, finalised after 14 months of consultations, spells out several measures to push green cars, including direct subsidies, concessional excise duties and income tax sops.

<http://economictimes.indiatimes.com/news/economy/policy/ministerial-body-under-pm-to-be-set-up-to-jumpstart-electric-car-market-/articleshow/7271906.cms>

**China readies 10 million EV parking spots by 2020: executive.** 13.01.11 *Reuters UK.* The Chinese government is said to be looking to prepare at least 10 million car parking spots for electric vehicles by 2020 in a new comprehensive policy due to be announced soon, a top executive at a local automaker said on Thursday.

<http://uk.reuters.com/article/idUKTRE70C5S820110113>

**Electric vehicle points to be installed.** *The Belfast Telegraph 13.01.11.* Government departments have agreed to establish a network of electric-vehicle charging points across Northern Ireland. Six access points on major roads will be created — at Belfast, Derry, Newry, Armagh, Enniskillen and Larne — which should all become operational during the next financial year. Funding for the scheme is coming from the UK Government’s Office for Low Emission Vehicles, which is contributing £850,000.

<http://www.belfasttelegraph.co.uk/business/business-month/electric-vehicle-points-to-be-installed-15053287.html>

**Two new U.S. electric cars planned for 2011.**

*Canadian Driver 12.01.11.* Li-ion Motors Corporation, which won the 2010 X Prize for its all-electric propulsion systems, has announced that it will sell an electric two-passenger practical vehicle and a high-performance supercar to the public in 2011. The company is based in Mooresville, North Carolina. The Wave II, a two-passenger vehicle with 28 cubic feet (792 litres) of cargo space, will start at US\$39,000, while the Inizio sports car, which can accelerate from zero to 97 km/h in 3.4 seconds to a top speed of 274 km/h, will be \$139,000. The company is accepting deposits of \$99 on the Wave II and \$1,000 on the Inizio

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starting this month.

<http://www.canadiandriver.com/2011/01/12/two-new-u-s-electric-cars-planned-for-2011.htm>

### **Metrolinx releases Electrification Study - 2011 01**

**19** TORONTO – Metrolinx today released the findings of its comprehensive study of the electrification for the entire GO Transit rail system and the future Air Rail Link (ARL).

After a careful review of the findings, the staff is recommending to the Metrolinx Board of Directors to move forward on the electrification of the GO Georgetown and Lakeshore corridors in phases, beginning with the ARL on the Georgetown corridor.

"The staff recommendation is based on the transportation benefits associated with electrification," said Bruce McCuaig, President and CEO of Metrolinx.

"These benefits include journey time savings for our customers and a reduction in operating costs. In addition, proceeding with the recommended option for electrification is a significant step towards the Big Move's long term vision for Express Rail."

High ridership numbers and existing infrastructure improvements make the Lakeshore and Georgetown corridors the strongest candidates for electrification.

The final report, appendices and staff recommendations are available online at

[www.go transit.com/estudy](http://www.go transit.com/estudy) . At its meeting of January 26, the Metrolinx Board of Directors approved the staff recommendation to begin electrification of the Lakeshore and Georgetown GO Transit rail corridors, with the new Air Rail Link (ARL) as the first phase. This recommendation is now submitted to the Province of Ontario for approval and funding.

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