



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.

### New Members

EMC is pleased to welcome the following new members:

**Nissan Canada Inc.** (as an industry member)  
5290 Orbitor Drive  
Mississauga, ON L4W 4Z5  
Fax/Télécopieur : 905 629 6329  
Web site/Site web : [www.nissan.ca](http://www.nissan.ca)  
Mark McDade  
Director, Sales Planning  
Tel : 905 629 6580  
Email/Courriel: [mark.mcdade@nissancanada.com](mailto:mark.mcdade@nissancanada.com)

**Société de transport de Montréal** (as an end user)  
800 rue de la Gauchetière Ouest  
Montréal, QC H5A 1J6  
Fax/Télécopieur : 514 280 5145  
Web site/site web : [www.stm.info](http://www.stm.info)  
Daniele Parret  
Tel: 514 280 5844  
Email/Courriel: [daniele.parret@stm.info](mailto:daniele.parret@stm.info)

**WatCAR – Centre for Automotive Research –  
University of Waterloo** (as a research centre)  
200 University Avenue West  
Waterloo, ON N2L 3G1  
Fax/télécopieur:  
Web site/site web: [www.watcar.uwaterloo.ca](http://www.watcar.uwaterloo.ca)  
Ross McKenzie  
Managing Director  
Tel: 519 888 4567, Ext 8395  
Email/Courriel: [ramckenzie@uwaterloo.ca](mailto:ramckenzie@uwaterloo.ca)

**Michael Potts** (as a supporting member)  
333 Sherbrooke Street East  
Montreal, QC H2X 4E3  
Tel: 303 502 6192  
Email/Courriel: [michael@evconsumer.com](mailto:michael@evconsumer.com)

**Carmine Pizzurro** (as a supporting member)

223 Fincham Avenue  
Markham, ON L3P 4B6  
Tel: 416 897 0958  
Email/Courriel: [carmine.pizzurro@yahoo.com](mailto:carmine.pizzurro@yahoo.com)

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

### News from EMC

The **PHEV 09 Conference and Trade Show** was just held in Montreal September 28 to 30 and judging by the many positive comments received, it was a huge success. With 344 delegates, this represents a 286% increase over the attendance of our 2008 event in Toronto. And, our first ever trade show was sold out with 16 exhibitors. We are happy with the outcome and we hope that the delegates and exhibitors agree that the event was educational and a great place for networking. EMC is particularly grateful to the event sponsors, the exhibitors, the over 80 speakers and the moderators that kept 18 sessions on schedule and interesting.

Proceedings will be on our web site in a couple of weeks and you will be notified when they are on line.

Next year's event will be in Vancouver, BC. The date and venue will be firmed up in a couple of weeks and you will be advised. A planning meeting was already held and the local hosts are enthusiastic and eager to put on a great conference and trade show.

**Mike Elwood re-elected as Chair.** At the **EMC Annual General Meeting** held on September 30<sup>th</sup>, the members elected the following as Directors for the coming year.

- Stephen Bieda – Zero Motorcycles Inc
- Ken Bondy – Canadian Auto Workers
- Ian Clifford – Zenn Motor Company
- Renaud Cloutier – TM4
- Steve Dallas – TM4

For more information, please contact:

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



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- Mike Elwood – Azure Dynamics
- Angelo Giumento – Hydro-Québec
- Catherine Kargas – Marcon
- Pierre Lavallée – Centre national du transport avancé
- Roger Martin – Unicell
- Chris Mendes - CrossChasm
- Tom Molinski – Manitoba Hydro
- Dave Pascoe – Magna
- Jim Perkins – Metro Vancouver
- Gerry Pietschmann – City of Toronto
- David Swan – DHS Engineering

Later that day, the Board met to elect its Officers. As a result of that election, our Executive for the coming year are:

Chair – Mike Elwood

Vice Chair – Gitanjali DasGupta

Secretary Treasurer - Steve Dallas

The **Electric Vehicle Technology Roadmap for Canada (evTRM)** was officially unveiled at PHEV 09. Natural Resources Canada Minister Lisa Raitt was detained in Ottawa and could not be present to officially receive the roadmap as planned. It was instead officially presented by EMC Chair Mike Elwood to John Maronne, Director General of CANMET at Natural Resources Canada during the welcoming reception on September 28<sup>th</sup>. The next day, Chair Mike Elwood presented the highlights of the evTRM to the delegates and stressed the fact that EMC members had devoted a great deal of time to the preparation of the roadmap. In addition, 5 groups appointed by the EMC Board have already met several times to specify actions necessary to implement the 21 strategic initiatives contained in the roadmap. NRCAN's Associate Deputy Minister and Chief Scientist Geoff Munro responded that the Government of Canada was pleased to receive the roadmap and indicated that it was an excellent document on which to base policy and other decisions. He identified several existing internal and external processes where the

roadmap will be used and noted that many of the actions are appropriate for early activities.

In a separate meeting in Montreal, Government of Canada and EMC representatives met to talk about an Implementation Strategy that includes convening the first meeting of the Implementation Committee in the coming weeks.

Copies of the evTRM report were available at the Montreal conference and can also be found on our web site at <http://www.emc-mec.ca/content/technology-roadmap>.

**The Canadian Hydropower Association (CHA)** is in full agreement with the contents of the roadmap and in fact wrote to the federal Ministers of the Environment, Transport Infrastructures and Communities, Natural Resources and Industry urging them to immediately offer financial incentives for buyers of electric traction vehicles as recommended in the evTRM report. In its letter, CHA President Jacob Irving stated that:

“While several electric and hybrid plug-in vehicles will certainly be deployed before 2012, it is not clear, however, that these cars will be offered to Canadian consumers. Indeed, because the cost of these vehicles will be high during an initial marketing period, manufacturers will tend to offer them in markets where financial incentives assist with the sales. **At this point, Canada would be excluded.** The United States, on the other hand, will stand out as a market of choice because of the significant tax credits available to purchasers from the federal government and other significant incentives from various states such as California. That is why we urge your government to rapidly adopt similar financial incentives in Canada to stay as competitive as possible with the incentives offered by the United States.

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EMC Chair Mike Elwood had sent a similar letter to Prime Minister Stephen Harper on March 1, 2009 and no response has been received to date.

### **Electric Bikes Allowed on Ontario Roads**

On October 1, 2009, the McGuinty Government announced that E-bikes can now share the road with cars, pedestrians and other traffic throughout Ontario - with new safety requirements:

- Limiting the maximum weight of an e-bike to 120 kilograms;
- Requiring a maximum braking distance of nine metres;
- Prohibiting modifications of the e-bike's motor to enable power-assisted speeds greater than 32 kilometres per hour.
- All riders must be at least 16 years of age, wear approved bicycle or motorcycle helmets and follow the same traffic laws that apply to bicyclists such as keeping as close to the right edge of the road as possible.

Municipalities can determine where e-bikes may be ridden on their streets, bike lanes and trails.

### **News from Members**

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

### **Fraser Basin Council Awards Vancouver Canada's First-Ever Gold Ratings for Fleet Excellence.**

On September 30, 2009, the City of Vancouver and the Corporation of Delta became the first municipalities to earn Gold Ratings from E3 Fleet, a national program that recognizes excellence in fleet management and environmental performance. Under the E3 Fleet Program, public and private sector fleets can seek formal ratings, which are based on several criteria. These include a fleet action plan, staff training, idling reduction practices, vehicle purchasing practices, fuel data management, fleet operations and maintenance, trip and route planning, fuel efficiency and

greenhouse gas performance.

"The E3 Fleet rating is both exciting news and a tremendous encouragement to us as we strive to become the greenest city in the world," Vancouver Mayor Gregor Robertson said. "Our Engineering Services staff are to be congratulated for taking multiple steps to improve fleet efficiency by 4% and cut overall emissions by 0.4% between 2006 and 2008. These include employing the right vehicles for each fleet function, assessing the full lifecycle costs of each vehicle purchased, testing alternative fuels, adopting new technologies and piloting such practices as nitrogen tire inflation and engine control module reprogramming." Vancouver has also recently purchased medium-duty hybrid electric trucks, which are cleaner, more energy-efficient vehicles and new to Canadian roads.

**Azure Dynamics Corporation** announced on August 25, 2009 announced that it has sold five Balance(TM) Hybrid Electric buses to Votran, the transit entity for Volusia County, Florida. The Votran specified vehicles utilized a 22 foot Turtle Top Odyssey body and are flexible enough to accommodate 14 passengers or four wheelchairs or various combinations of the two. Votran expects delivery in the fourth quarter 2009 and will integrate the buses into its county-wide paratransit service.

And, on August 26, Azure announced that it's Balance(TM) Hybrid Electric vehicle is the newest addition to the United States Postal Service fleet (USPS). The Azure Balance(TM) Hybrid Electric two-ton step van, will actively participate in the USPS fleet in Long Island, New York for a twelve month pilot program. The vehicle utilizes Azure Dynamics hybrid electric drive train on the Ford E-450 chassis with a Morgan Olson body. Boyer Ford Truck Sales delivered the vehicle. "The Postal Service is taking the lead in reducing the environmental footprint that results from visiting every home and business in America every

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day," said Sam Pulcrano, USPS Vice President, Sustainability. "This new vehicle will join 30 other Azure Dynamics pure electric step vans currently delivering mail in Manhattan and the Bronx, as part of a test of alternative fuel technology."

**Isaac Instruments** announced that their industrial clients are now benefiting from a subsidy coming from the Québec Ministry of Transport. This is the assistance that certain companies were waiting for to acquire the vehicle monitoring technologies offered by Isaac Instruments. This provincial program will reimburse 30% of admissible expenses.

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**Isaac Instruments annonce que ses clients de l'industrie du camionnage bénéficient d'une subvention du Ministère des Transports du Québec**  
Voilà le coup de pouce que certaines entreprises attendaient pour adopter la télémétrie véhiculaire d'ISAAC Instruments. Under this program, companies can obtain a 30% subsidy for the monitoring equipment.

Ce programme provincial permettra un remboursement de 30 % des dépenses admissibles.

**Magna International Inc.**, and its Russian partner the Savings Bank of the Russian Federation ("Sberbank") announced on September 10 that their joint offer to acquire a 55% interest in Adam Opel GmbH ("Opel") has been selected by both General Motors Company ("GM") and the Opel Trust as the preferred solution to address the future of Opel. Under the offer, the

acquired 55% interest in Opel would be owned 50:50 by a Magna/Sberbank consortium ("Consortium") with GM retaining a 35% interest and Opel employees acquiring 10% as part of a new labour framework. The offer contemplates a total equity investment by the Consortium of Euro 500 million over time.

Completion of the purchase remains subject to finalization of definitive agreements and other conditions, including government-backed financing and regulatory approvals.

### **Other News**

**Green Fleets BC** is currently assessing the level of interest of BC fleets in hosting plug-in electric vehicles and related charging infrastructure for the BC PEV funding proposal. The multi-stakeholder BC PEV Program is responsible for leading and shaping plug-in electric transportation in B.C., and has been active in 5 key areas: 1) Vehicle Deployment, 2) Charging Infrastructure, 3) Policy, 4) Technical Studies, and 5) Outreach & Market Transformation.

The PEV Program Working Group is currently developing a funding proposal to the Canadian federal Clean Energy Fund to support deployment of charging infrastructure across the province. The proposal is seeking funding for charging infrastructure, related smart grid management technologies and data collection and analysis. Five key projects form the basis of this charging infrastructure program: Residential Charging, At Work Charging, Fleet Vehicle Charging, Public Parking Charging, and Charging within an Intelligent Micro-grid.

Linamar Auto R & D Centre announced. See [http://www.infomedia.gc.ca/allcontent/articles/unresctricted/2009/09/all2009918788305\\_1.htm](http://www.infomedia.gc.ca/allcontent/articles/unresctricted/2009/09/all2009918788305_1.htm) for details of the announcement. Although it will be a Linamar R&D centre the intent is for automotive parts



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suppliers to use the new centre to demonstrate new product ideas or production processes. Once those projects are ready for market, Linamar will help the supplier to commercialize those innovations.

**Vancouver based REV Technologies to convert vehicles for Inglewood, California.** As recently announced, the City of Inglewood, Calif. has chosen REV to transform their existing fleet vehicles to 100 percent electric with their fast-install AC drive technology, integrated data management and networked charging station infrastructure. "REV is giving North American fleet vehicle operators an opportunity to transform their passenger vehicle fleets into green driving machines. REV Technologies is an innovative and forward thinking company, which provides a steadfast fully electric vehicle that moves society with a sustainable and renewable energy vehicle for now and the future," states Rick Longobart, Fleet Management and Transit Services Superintendent, City of Inglewood, and President of the Municipal Equipment Maintenance Association.

Fleet managers are adding all-electric vehicles into their fleets to comply with clean air mandates, but finding production ready vehicles is challenging. REV's all-electric fleet vehicle is built on the best selling fleet vehicle platform and it's available now.

"We are offering fleet managers the ability to save fuel and maintenance costs and increase fleet-service life, saving taxpayer dollars and decreasing emissions that affect air quality. And for the first time, fleet managers will have an opportunity to test drive a REV 100 percent electric transformed vehicle," says Jay Giraud, president and CEO of REV. "In addition, Coulomb Technologies ChargePoint® Networked Charging Stations provide the necessary infrastructure that allows us to deliver an end-to-end solution for electrifying existing fleets' operations."

The REV 300 ACX travels 100 miles on a single charge while maintaining the performance capabilities of the original vehicle. The REV electric fleet vehicle is efficient with regenerative braking, eGear drive transmission, and less than 10 moving parts. The vehicles are safe with built-in inertia switches, a manual safety disconnect, 4-wheel ABS brakes, and full system airbags. They are also reliable with 1/10<sup>th</sup> the maintenance, Vehicle to Grid ready, recharge in as little as 3.5 hours, and have built-in fleet information systems.