*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:

David Feldhaus (as a supporting member)
8619 – 187th Street
Surrey, BC V4N 6C8
Email/Courriel: david.feldhaus@gmail.com

ENMAX Power Corporation (As an energy provider)
141 – 50th Avenue S.E.
Calgary, AB T2G 4S7
Fax/Télécopieur: 403 514 2067
Web site/Site web: www.enmax.com
Terri-Lynn Haffick, E.I.T.
Systems Operations Engineer
Tel: 403 514 6853
Email/Courriel: thaffick@enmax.com
Power Utility for the City of Calgary

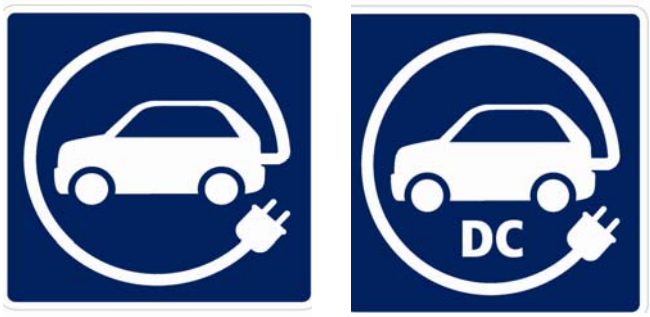
See http://www.emc-mec.ca/content/our-members for a complete membership directory.

News from EMC

Business Plan and Budget for 2010
EMC appreciates the valuable input received from its members on potential actions to be included in its 2010 Business Plan. These are now being analyzed and will be presented to the EMC Board when it deals with the business plan at its December 8th meeting.

Implementing Ontario's Tax Rebates for plug-in EV's. EMC representatives have been invited to meet with the Ontario Minister of Transportation James Bradley on November 26 to discuss how EMC feels the tax rebates of $4,000 to $10,000 announced earlier in 2009 should be implemented. July 1, 2010 is the announced implementation date.

EMC proposes new Canadian signs for EV Charging Stations. It takes time to get a national standard for traffic signs across Canada. This is done via the Transportation Association of Canada which publishes the Manual of Uniform Traffic Control Devices which is used by all Canadian jurisdictions. In preparation for EV's and PHEV's we need to get a sign approved to designate charging stations and to direct motorists to charging stations. The sign pictured below was approved by the EMC Board of Directors and recommended by EMC to the Transportation Association of Canada. It can be used in French and English parts of Canada and can be placed at charging stations as well as on signs directing motorists to charging stations (i.e. to off highway sites with charging stations). EMC is grateful to BC Hydro and the BC Government for research and design work on this sign.



Note - The quick charging symbol – for level 3 charging - is denoted with DC on the sign. In addition to having the DC signs at the quick charging stations, the DC charging symbol could be placed on highway signs that indicate rest stops and gas stations. AC charging (levels 1 & 2) is the same sign without DC

EMC asked to dialogue with Quebec Government on electric vehicles. At the request of the Quebec Ministère des transports, EMC, with the support of the Centre national du transport avancé, is preparing for a one day workshop on the electrification of transport with representatives of several ministries and agencies of the Québec Government. This workshop will take place in early 2010.

Technology Roadmap for Electric Vehicles in Canada)(evTRM). EMC was asked by NRCan to submit a proposal to coordinate the implementation activities for the roadmap. Such a proposal was sent on November 3 asking for a quick response before we send out formal invitations to the evTRM Implementation Committee. To date, we have not received a response from NRCan. EMC remains ready

to act on the 21 strategic initiatives in the evTRM report but we need government participation in the process. Hopefully, this will be resolved soon.

On a related front, a US industry group (Nissan, Fedex, A123, PG&E, Johnson Controls, etc.) known as the Electrification Coalition released on November 16, 2009 a 180-page document 'Electrification Roadmap called: "Revolutionizing Transportation and Achieving Energy Security". It is available at http://www.prtm.com/uploadedFiles/Thought_Leadership/Articles/External_Articles/Electrification_Roadmap.pdf?n=7095. The overarching goal of this Roadmap is this: By 2040, 75% of the vehicle miles traveled in the U.S. should be electric miles. Subsidiary goals are to have 700,000 grid-enabled vehicles (GEVs) on the road by 2013 (the end of Phase 1), 14 million by 2020, and >120 million by 2030. This US roadmap contains several recommendations also contained in Canada's roadmap.

Wide interest in the Electric Vehicle Technology Roadmap. EMC has received and accepted many invitations to explain the evTRM to interested stakeholders. In recent weeks, it was presented to:

- A visiting automotive group from The Netherlands.
- The Federal Government Fleet Managers
- The Brazilian EV Association annual Conference.
- Ordes des ingénieurs du Québec
- The Ontario meeting on PHEV and EV organized by the Ontario Centres for Excellence
- The Ontario Energy Producers Conference

Presentations planned for the near future include:

- A Korean Auto Parts delegation
- The Alberta Power Summit
- The Canadian Institute for Procurement and Materials Management

EV 2010 VÉ
Electric Vehicles- Véhicules électriques

That is the official name of our 2010 Conference and Trade Show that will take place in Vancouver September 13 to 16, 2010. The Organization Committee, chaired by Mark Dubois-Phillips of BC Hydro has started overall planning. The Program Committee (Chair to be named) is starting its work at the end of November. The Trade Show Committee, chaired by Steve Dallas of Toronto Electric, is also about to get active and define the details for the trade show. In the meantime, the delegates to the PHEV 09 conference in Montreal are responding to our questionnaire and providing much valuable insights and suggestions that will assist the three conference committees.

Members Events on EMC Web site. Our web site now contains a section called "Members Events" and we welcome information about events that EMC Industry members are participating in. Please email information about your coming events you wish publicized to al.cormier@emc-mec.ca

News from Members

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

The Toronto based Electric Vehicle Society is collaborating with Toronto's Centennial College in offering a course called 'Introduction to Electric Vehicles' starting in 2010. The course will deal primarily with the conversion of personal gasoline engine vehicles to electric drive. For more information, contact Howard Hutt at the Society – 416 755 4324 or email at hhutt@rogers.com.

Azure Dynamics Corp announced on November 1, 2009 that they will collaborate with Ford to deliver a pure battery electric Ford Transit Connect van for the United States and Canadian markets in 2010. Azure will integrate its Force

Drive battery electric drive train in the Transit Connect van for commercial fleet and retail use.

The collaboration with Ford for the Transit Connect BEV will build on the existing business relationship between Ford and Azure as well as their shared experience with battery supplier Johnson Controls-Saft.

The City of Toronto provides direction and authority to pursue a variety of initiatives including the infrastructure for EVs'. As announced on November 2, the City of Toronto adopted *The Power to Live Green*, a sustainable energy strategy aimed at reducing Toronto's greenhouse gas emissions by 80% by 2050. The strategy features a series of guiding recommendations aimed at reducing Toronto's greenhouse gas emissions to levels set by Council in 2007: six per cent below 1990 levels by 2012, 30 per cent below 1990 levels by 2020, and 80 per cent below 1990 levels by 2050.

The strategy envisions Toronto as a low carbon city by 2050 with a clean, reliable and affordable energy supply. According to EMC Director and City of Toronto Fleet Manager Gerry Pietschmann, this new strategy will facilitate the greening of the City of Toronto fleet including the acquisition of electric traction vehicles. The view the complete strategy document, visit: http://www.toronto.ca/legdocs/mmis/2009/ex/bgrd/backgroundfile-24947.pdf.

Azure Dynamics Corporation announced on November 2, that FedEx Express, had purchased 51 additional Azure Balance(TM) Hybrid Electric walk-in vans to be delivered in November and December 2009. "We're always looking to broaden our customer base, but earning large re-orders from customers like FedEx Express is sometimes even more rewarding," said Scott Harrison, Azure Dynamics CEO.

The FedEx Express New York all-hybrid facility demonstrates that cleaner hybrid electric technologies are a viable alternative to conventionally equipped trucks.

Mitsubishi's electric vehicle hits Vancouver streets

November 20, 2009 - North America's first production-ready, highway-capable electric cars have arrived in British Columbia. The Province of B.C., City of Vancouver and BC Hydro welcomed three Mitsubishi i-MiEV pure electric vehicles to Vancouver today. Two cars will be added to BC Hydro's fleet of vehicles and one will be added to the City of Vancouver fleet.

The Province of B.C., City of Vancouver and BC Hydro signed an agreement with Mitsubishi Canada and Mitsubishi Motor Sales of Canada Incorporated earlier this year to allow for the demonstration of the cars in B.C. The agreement also allows for the addition of cars as the vehicles become available.

"This is a first – the world's first mass production electric car," said Tomoki Yanagawa, vice-president Sales/Marketing & Corporate Planning of Mitsubishi Motors Sales of Canada Ltd. "It's a first for Vancouver, a first for British Columbia, a first for -North

Other News

Hybrid cabs prove they can cut it in Toronto traffic. *(*EMC knows that hybrids are used extensively as taxis in western Canadian cities and hopes that the Toronto story below will spread their use into eastern Canadian Cities.) In June 2007, the Toronto Atmospheric Fund (TAF) helped Co-op Cabs put a number of Toyota Camry Hybrids on the road to test their suitability for the punishing job of being a Toronto taxi. After

a year's worth of on-road monitoring, results show that the hybrids are saving their owners money by cutting fuel costs by 24-37% (with a similar reduction in GHG emissions) as well as providing protection from rising fuel prices. Overall, the total cost of ownership for the hybrid taxis was estimated to be less than for a conventional cab and one early result of this project has been a change in Toronto taxicab licensing rules to allow smaller hybrid vehicles to be used as taxis. The detailed findings from this pilot project are now available at www.toronto.ca/taf/pdf/hybrid-taxi-oct09.pdf.

As announced on November 13, a company from Victoriaville Québec released information **on its electric utility truck** with the bucket operations done electrically without the truck's motor running. The Centre National du Transport Avancé (CNTA) did an energy analysis on the vehicle during March and April 2009 and estimated fuel savings of 15L perd ay or 3,750 L per year. This represents a CO2 reduction of 10 tonnes. For further information, please contact Sylvain Castonguay at scastonguay@cnta.ca.

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