



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.

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Electric Mobility Canada wishes its members and other supporters a Merry Christmas as well as a Happy New Year

New Members

EMC is pleased to welcome the following new members:

eMileage (as an industry member)
40 – 55 Kelfield Street
Toronto, ON M9W 5A3
Web site/Site web: www.emileage.ca
Emile Stevens
Founder and President
Tel: 416 788 PHEV (7438)
Email/Courriel: emile.stevens@emileage.ca
*Plug-In Hybrid Electric Vehicle (PHEV) conversions.
Solar PV systems, micorFIT and vehicle recharging*

Change Energy Inc. (as an industry member)
229 St. Clair Street, Suite 300
Chatham, ON N7L 3J4
Fax/Télécopieur: 519 351 8183
Web site/Siteweb: www.changeenergy.ca
Al Davidson, Partner
Tel : 519 436 5700
Email/Courriel : adavidson@changeenergy.ca
Design, build, operate, maintain, lease, own alternative energy fuelling stations.

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

News from EMC

Business Plan and Budget for 2010. At its December 8th meeting, the EMC Board of Directors approved an aggressive Business Plan for 2010 and a related budget. Members were sent a copy of the business plan along with their membership renewal notices for 2010. Highlights of the Business Plan can be found on our web site at <http://www.emc-mec.ca/content/2010-business-plan>.

Electric Vehicle Technology Roadmap The implementation of the strategic initiatives proposed in Electric Vehicle technology Roadmap (evTRM) will be

a major activity for EMC in 2010. EMC's proposal to coordinate the implementation activities has been reviewed by the federal government departments with an interest in electric mobility and meetings are planned in January to kick off the process.

Tax Rebate for Electric Motorcycles in BC. At EMC's request, an official document from the BC Government advised that under current policy, new motorcycles that operate exclusively on electricity also qualify as alternative fuel vehicles and are eligible for a Sales Tax reduction of 50 percent up to \$1,000. This tax reduction will end as of July 1, 2010, with the introduction of the harmonized sales tax (HST).

EMC needs a slogan. Many associations use slogans after their official name to highlight their purpose and mission. Such slogans are typically used with the organization's name. Examples might be "Electric Mobility Canada - The voice of Electric Traction" or "Electric Mobility Canada – Moving transportation to zero emissions". Readers are invited to submit possible slogans to al.cormier@emc-mec.ca in the coming month.

News from Members

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

Future Vehicle Technologies Inc. has returned from the SEMA show in Las Vegas feeling more confident than ever. Not only was this one of the best car shows they have attended, it was also the first "summit" for all 43 X-Prize teams. Following is a quote from the company's press release. "All of the vehicles at the show had a common theme. They are using off the shelf drive components - something that FVT tried years ago before deciding to develop their own system from the ground up. FVT knows the systems currently available therefore we also know the performance and efficiencies of those systems."

"More than ever we are convinced that our custom drive system will be one of the premier drives available globally. This was reinforced by numerous companies from as far away as Europe and Australia that approached us wanting to know more about our high

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performance electric drive system for their projects. FVT's multi-prong approach of building the eVaro and dozens of new "under-the-hood" technologies separates us from most EV companies internationally. We just can't bring ourselves to build the car of the future with antiquated parts."

Azure Dynamics Corporation announced on December 1 that Johnson Controls-Saft has been chosen as battery supplier for Azure's Force Drive(TM) integration on the Ford Transit Connect Battery Electric Vehicle (BEV). Johnson Controls-Saft will supply its advanced lithium-ion technology for the battery electric Transit Connect van for North American distribution beginning in late 2010. And, on December 14, Azure Dynamics announced that **Purolator Courier Ltd.** ("Purolator") has placed an order for an additional 200 Balance(TM) Hybrid Electric delivery trucks. The 200 unit purchase is Azure's largest revenue order to date and also the highest volume Balance(TM) Hybrid Electric order since the product launched in the summer of 2008. The new trucks join approximately 205 other Azure trucks already at work in **Purolator's** fleet. The trucks will be delivered in 2010.

Zenn Motor Company, on December 7, 2009, issued an update to its stakeholders regarding its ZENNergy™ drive solutions development and low-speed vehicle (LSV) operations .

As communicated in the Company's September 24, 2009 press release, the primary focus for ZMC moving forward is the commercialization of its ZENNergy™ drive solutions, powered by EESstor Inc.'s Electrical Energy Storage Units (EESUs) and integrating third-party and proprietary technologies being developed by the Company. This focus, which has long been integral to the Company's plans, reflects the dramatic shifts that have occurred within the automotive industry and the broad-based interest in electric vehicle (EV) solutions. Central to this interest in EVs are solutions that provide smaller, lighter, longer-lasting and less expensive energy storage. ZENNergy™ drive represents such a solution.

With its ZENNergy™ solutions, the Company intends to become a key supplier and partner with industry-leading Original Equipment Manufacturers (OEM) and Tier 1 companies in the new, used and specialty

vehicle markets. Zenn Management believes that this approach represents both the quickest and broadest market penetration opportunity by leveraging the substantial manufacturing, distribution and service operations of the established OEMs and other Tier 1 companies.

With the increased emphasis being placed on ZENNergy™ drive solutions, the Company affirmed today that the 2010 model will be the final ZENN LSV model produced and that it will cease production of the ZENN LSV by April 30th, 2010. The Company, together with its Retailers and service centers, plans to fully support the ZENN's service requirements in the coming years as do ZMC's parts suppliers."

"With the valuable experience we've gained and the tangible progress EESstor has made over the past year, we are now confidently turning the page in the evolution of ZENN Motor Company from a manufacturer of LSVs into a Tier 1 supplier to automotive and specialty vehicle companies, including other LSV OEMs, all of whom are in great need of a solution such as that represented by ZENNergy™ drive," stated Zenn's Ian Clifford.

Electrovaya and HEROElectric Plan Joint Venture for Zero-Emission Battery Electric Scooters and Motorcycles. On December 9, Electrovaya Inc. announced that it is partnering with HEROElectric for the electrification of two-wheeler vehicles using Electrovaya's *Lithium Ion SuperPolymer®* battery technology. A Memorandum of Agreement was signed that sets out the general principles of a joint venture for zero-emission battery electric scooters and motorcycles. The MOU was signed in New Delhi with the Ontario Premier Dalton McGuinty in attendance.

Fourteen leading world cities announced in Copenhagen on December 16, 2009 that they are committed to take steps over the next year to make their cities more electric vehicle-friendly, in collaboration with four leading vehicle manufacturers and the Clinton Climate Initiative (CCI). Chaired by Toronto's Mayor David Miller, the cities include Bogota, Buenos Aires, Chicago, Copenhagen, Delhi, Hong Kong, Houston, London, Los Angeles, Mexico City, Toronto, Sao Paulo, Seoul and Sydney and they have

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created the 'C40 Electric Vehicle Network'. They will collectively address four areas of municipal action that are critical to the successful introduction of electric vehicles. Through the C40 Electric Vehicle Network, the cities will:

1. Facilitate the planning and deployment of charging infrastructure and related electricity supply systems in collaboration with local utilities.
2. Work with relevant stakeholders to streamline permitting processes associated with charging equipment to encourage the safe and expeditious installation on customer premises and elsewhere.
3. Coordinate monetary and non-monetary incentives available to the general public and organizations purchasing electric vehicles, and contribute to the package appropriately.
4. Develop and publish a plan to mobilize demand for electric vehicles in city fleets for the period 2010 - 2013 and rally private fleets to the safe end.

So far, four private sector companies have committed to work with the C40 Electric Vehicle Network toward the shared goal of growing the market for electric vehicles. This group includes car manufacturers, BYD, Mitsubishi Motors Corporation (MMC), **Nissan** and Renault.

Mayor Miller of Toronto and C40 Chair said, "The Electric Vehicle Network demonstrates the power of the C40 as a convener and catalyst change. Fourteen cities sharing solutions can make more rapid progress than any one city working on its own.

ISAAC Instruments continues to win accolades. On October 28th, they were awarded the prestigious title of SMB of the year handed out by l'Association des Manufacturiers d'Équipements de Transport et de Véhicules Spéciaux (AMETVS). ISAAC Instruments was also a finalist for the Rio Tinto Alcan Innovation

Grand Prize.

This award honours **ISAAC Instruments** for its outstanding achievements during the past year, through its investments, its growth, its industrial impact and the quality of its business practices.

Being part of a consortium directed by the engineering firm BPR, **ISAAC Instruments** responded to an invitation to tender for the **Centre de Gestion de l'Équipement Roulant du Québec (CGER)**. The project, estimated to 12 millions \$, consist of integrating Vehicle Telemetry to the **CGER** fleet of vehicles in order to reduce fuel consumption. The fleet of 4000 motorised vehicles is deployed all over Québec.

ISAAC Instruments demonstrated the conformity of its products during a complete test bench on **CGER** vehicles, as indicated in the RFP. **ISAAC Instruments** and its partners are now ready to deploy the technology in 2010.

Other News

On December 10, **Paris** called for proposals for AutoLib, a project that will see 3,000 electric vehicles and 1,000 charging stations on the streets of Paris and nearby centres. The vehicles will be available to subscribers without reservations. The project is expected to be fully operational by the Fall of 2011.

On a parallel activity, **CNTA (Centre national du transport avancé)** and Communauto are collaborating on a project where Communauto would offer electric vehicles to its clients in Québec.

France announces concrete steps to reach its goal of 2 million EV's

As reported in the November 2009 issue of FLASH,

- The federal and municipal governments, and their agencies are committed to buying 50,000 EV's over the next 5 years. This includes 10,000 vehicles by the French Postal Service.

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- 750 million Euros for charging infrastructure stations on private sites, public buildings and on public roads.
- A regulation requiring charging stations in new public and private buildings.
- A battery exchange program involving taxis involving Better Place and Renault.
- Financial support to Renault and its partners (Nissan and Nec) to set up a battery facility.
- Participation by the French Government with its European neighbours in the standardization of standards for vehicle charging infrastructures.

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