



Electric
Mobility
Canada

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NEG-ECP
Alternative Fuel
Vehicles Conference
September 27 2012

EVs are becoming mainstream



2012 Nissan Leaf



2012 Chevrolet Volt



2013 Ford Focus EV – Fall 2012



2012 Mitsubishi i-MiEV

Many EV models coming to market in 2012-2013...



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Electro-Fan

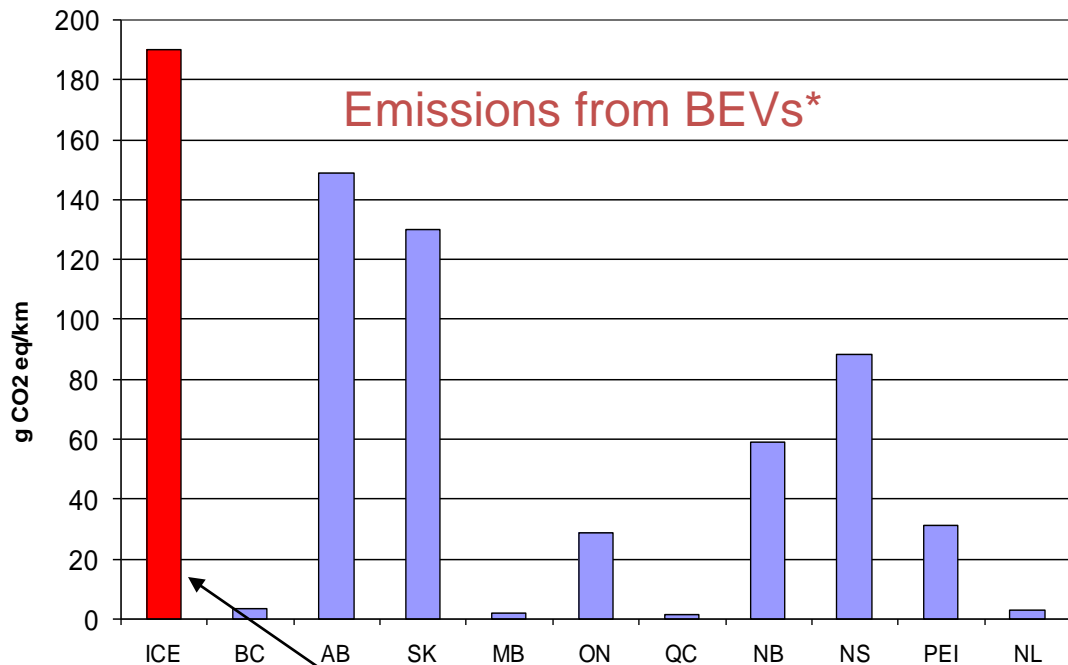
- Lower impact on the Earth's ecology
- GHG/pollution reduction
- Freedom from the gas station
- Quiet, low maintenance, longer life
- Renewable energy – “ethical”, secure
- Choices: Nissan, Mitsubishi, GM, Smart and soon Ford, Audi, Fiat, Via, VW, Honda, Coda, Tesla, BMW, Volvo.....

Our situation

- New England and Eastern Canada have abundant hydro resources.
- Imported oil is required for most gasoline and diesel fuel.
- Growth in technology firms is happening (A123 in Boston, TM4 in Quebec).
- Good reasons to support electric vehicles.

Environmental Benefits of BEVs in Canada

(Based on how electricity is generated)



* Compared to compact car
on gasoline



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Level 2 - Home Charging Equipment Examples



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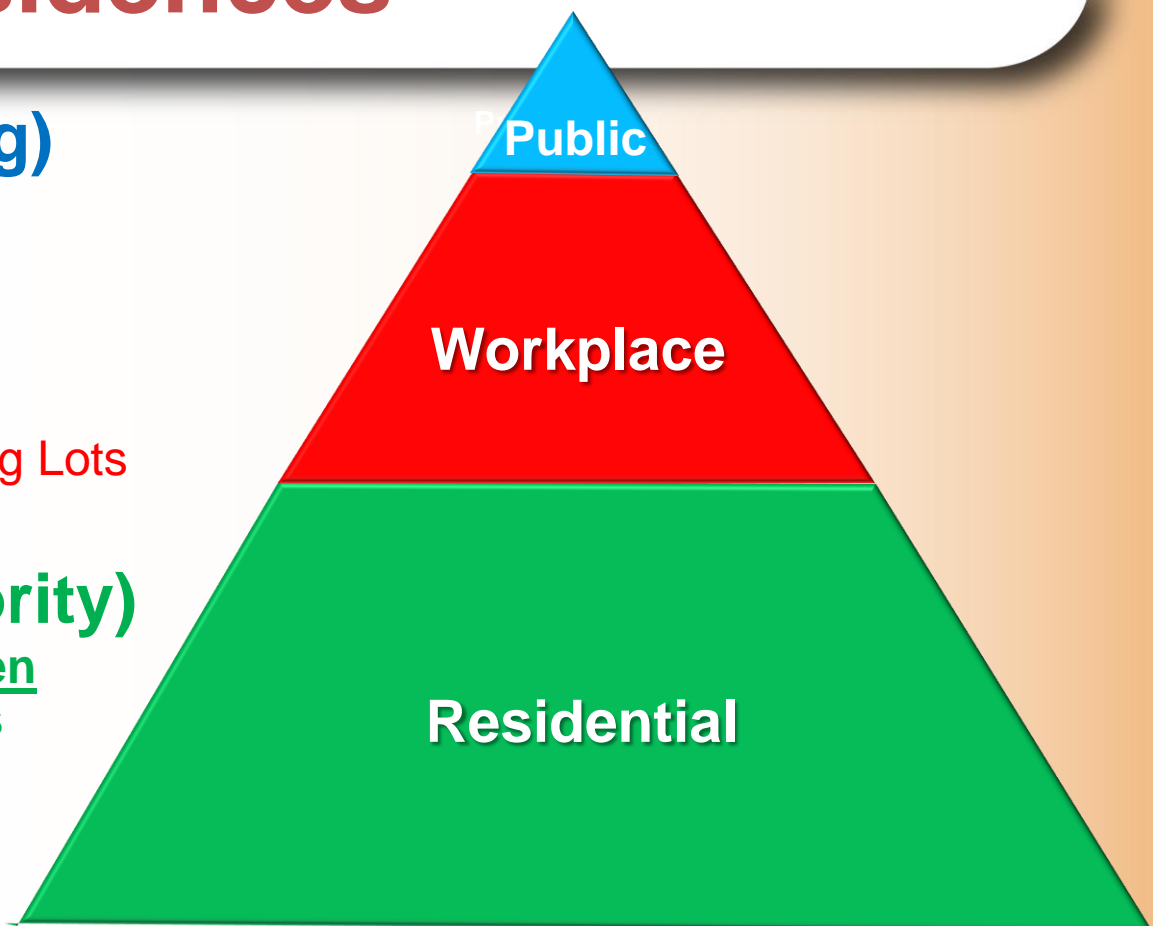
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Solar Powered EV Charge Station in Windsor Ontario

Charging Infrastructure – mainly in residences

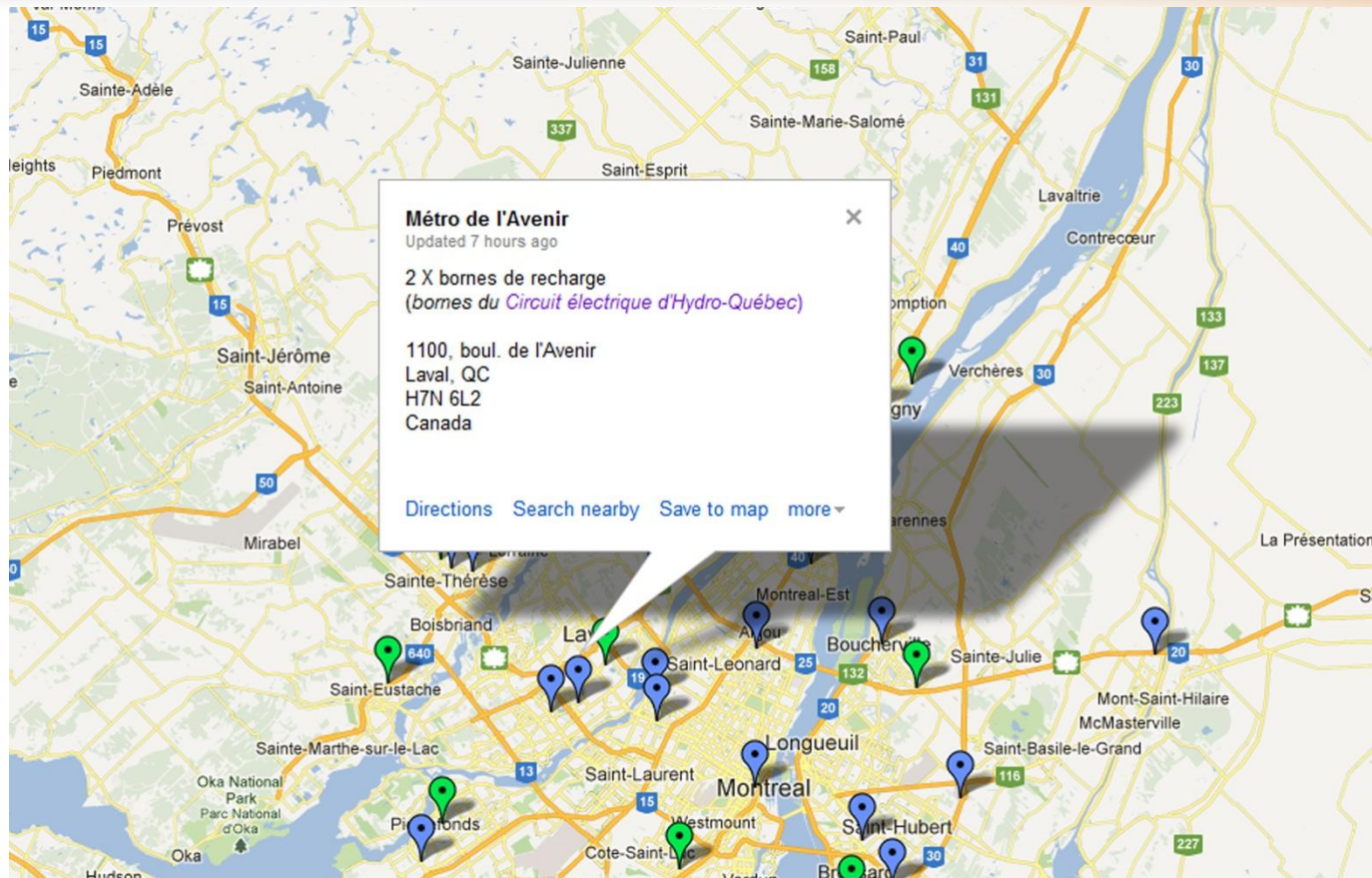
- **Public (fast charging)**
 - High Visibility
 - Commercial/Retail
 - Public Education and Outreach
- **Workplace**
 - Corporate, Municipal Parking Lots
- **Residential (majority)**
 - Satisfying consumer-driven home installation process
 - Permits, electricians, inspections, meters, rates





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Le localisateur de bornes de recharge publiques au Canada



Key grid impact messages

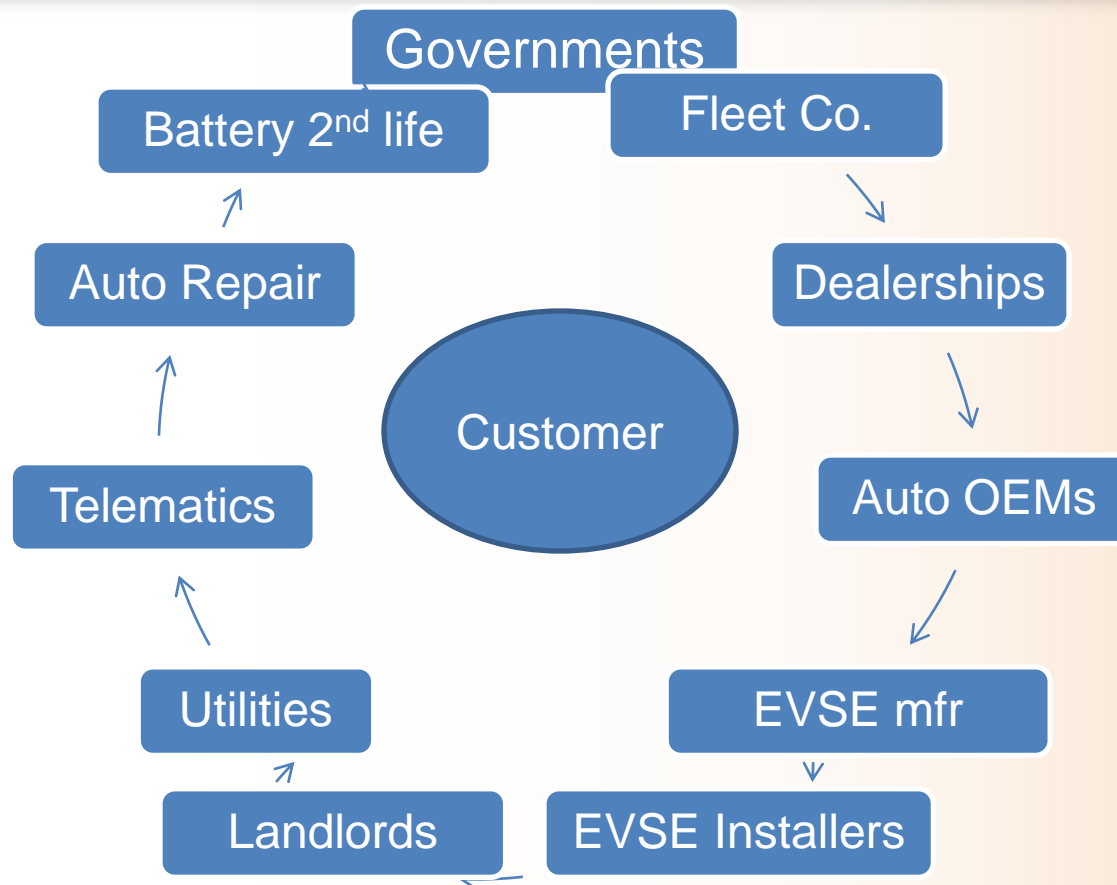
- Expected loading will not likely require new generation capacity for 20+ years (if charged at night).
- Impacts on local levels may require infrastructure upgrade if PEV sales are concentrated in an area.
- PEV adoption rates are difficult to predict, with the future price of gasoline likely a key driver.



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Potential for new industries and jobs



Incentives for Electric Vehicles

- Québec: up to \$8,000 per vehicle and \$3,000 for plug-in hybrid.
- Canada: no incentives.
- U.S.: up to \$7,500 per vehicle
- Electric vehicles on the market today range in price from \$22,000 to \$100,000.

There Are Good Things To Come!



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