



ELECTRIC VEHICLES:

Nightmare or Magic Bullet for LDCs ?

January 29, 2013

5:30 - 6:00 pm • Meet the Speaker

6:00 - 6:30 pm • Presentation

6:30 - 7:30 pm • Q & A and Discussion

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Though virtually silent, there is certainly a buzz around electric vehicles (EVs). They have tremendous potential to revolutionize how we move people and light freight, with significantly reduced environmental impacts. Optimistic statements are heard from the public, politicians, market analysts, EV advocates, and not the least, from auto and electric vehicle supply equipment manufacturers. Most car manufacturers are now promoting pure EVs for niche local applications, as well as plug-in hybrids where assured extended range is essential.

While the potential for significantly reducing fossil fuel use and environmental benefits is attractive, the many implications for the electricity grid from their widespread use are just now being explored. From all that is being said, what can be believed about the practical potential of EVs? Could widespread take-up result in havoc for the reliability and power quality of the grid and the local distribution network? What are the long term implications within a smarter grid network? All Local Distribution Companies need to keep an eye on the matter - but what should the LDC be aware of, and what can be done to prepare? This lecture by Hydro Ottawa's Strategic Planning Engineer will delve into the headaches and opportunities for the LDC.

After graduating in electrical engineering from the University of Ottawa, Raed found himself involved in solar energy projects, energy management, and now asset management and planning. He has been a contributing member of Ontario Smart Grid Forum Working Group, Centre for Energy Advancement through Technological Innovation's Smart Grid Forum, Hydro One Networks' LDC Distributed Generation Working Group, the Standards Council of Canada's Smart Grid Task Force, and Electric Mobility Canada Working Group on Plug-in EV Readiness, to name a few.



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