



Electric Vehicle Society - Northumberland Chapter

NEWSLETTER

July 3, 2023

EV Society Canada Talks EVs webinar - 7:30pm 1st Tue each month. You are encouraged to join the EV Society. Visit <https://evsociety.ca/join/>

July 4, 2023 7:30 PM, Canada Talks Electric Cars Webinar Episode #38 "Maximize Your EV Battery Life with Dr. Jeff Dahn - Dalhousie University". Dr. Jeff Dahn is a premier authority and researcher of Li-ion batteries. He is with the Department of Physics & Atmospheric Science and the Department of Chemistry at Dalhousie University. Dr. Dahn is recognized as one of the pioneering developers of the lithium-ion battery that is now used worldwide in laptop computers, cell-phones and many other devices including electric cars. Everyone with an EV should want to maximize battery life. Understanding why Li-ion batteries degrade allows one to select operating regimes that minimize degradation and maximize battery life. Dr. Dahn will explain general rules of thumb for operating your EV to maximize battery life. At the end of the talk, time permitting, he will briefly touch on what we can expect from the up and coming sodium-ion battery technology.

[Register](#) for this highly charged presentation July 4, 7:30 PM

If you missed other presentations, they can be viewed at <https://www.youtube.com/playlist?list=PLgmymQuAYIURyz27qs3Nrum3krmv9zo0J>

Future EV Society webinars:

Aug 1, 2023 Tesla Motors Autonomous Technology Adam Kesik Operations Advisor - Tesla

EV Society Ontario Chapter meetings – 7:00 PM 3rd Wed each month...or check out <https://evsociety.ca/calendar> Topics covered in all EVS Ontario Chapter meetings include EV Industry Sales Report, EV News, Canada Talks EVs Webinar updates, plus time for Q&A with the guest speaker and other participants.

July 19 Cobourg's Police Chief Paul VandeGraaf will be talking about their experience after 1 year of operation with their **Mustang Mach e "Pinky" used for community outreach programs**. We will be sending out a notice and link to the meeting as soon as it is ready.

[Register to receive your meeting access information.](#)

Worried about EV battery life? Research shows they could outlive the cars they power. <https://www.theglobeandmail.com/drive/article-worried-about-ev-battery-life-research-shows-they-could-outlive-the/> May 1, 2023

EV Manufacturing news - [Toyota plans to make an all solid-state battery](#) as part of its ambitious plans for battery electric vehicles, the company said Tuesday, amid mounting criticism Japan's top automaker needs to do more to fight climate change.

In a recent press release, **Volvo announced that it's found a way to truly stick it to the trolls** that attack EVs online, in social media, and in regular media. <https://cleantechnica.com/2023/05/27/volvo-proves-anti-ev-trolls-wrong/>

Charging Infrastructure –

[Ford EV Customers To Gain Access To 12,000 Tesla Superchargers](#); Company To Add North American Charging Standard (NACS) Port In Future EVs starting in 2025.

[GM jumps on the same bandwagon too!](#) General Motors announced Thursday that [GM vehicles will gain Tesla Supercharger access in 2024](#). Further, future GM EVs will drop the CCS port in favor of the Tesla charge port. Following on Ford's commitment to the Tesla standard, called NACS, just a couple weeks

earlier, that puts three U.S. automakers—Tesla, Ford, and GM—on the same domestic EV charging standard.

[Now Volvo will adopt Tesla NACS charging port.](#) Volvo is the first foreign automaker to announce the adoption of Tesla's NACS EV charging standard. With a recent (June 27, 2023) confirmation, Volvo said that its future models, starting in 2025, will get the NACS connector for North America. Volvo appeared to indicate that the upcoming [\\$35,000 EX30 EV](#) and U.S.-made [EX90](#), which are both due to arrive for first U.S. deliveries before 2025, will still have the CCS interface. It said those models—as well as the XC40 and C40 Recharge already offered, will be able to be charged on the Tesla Supercharger network with an adapter that will be available in the first half of 2024. At that time, the Supercharger network will also be included in the Volvo Cars app.

[Electrify America adding Tesla \(NACS\) charging.](#) Electrify America on Thursday announced that it will add Tesla connectors to its charging network in the U.S. and Canada. The company said in a press release that it will continue to provide Combined Charging Standard (CCS) connectors, while also adding the Tesla connector, branded by Tesla as the North American Charging Standard (NACS) as an option at existing and future charging sites by 2025.

[Electric Autonomy breaks](#) down the impact of Ford and GM's decision to adopt Tesla's North American Charging Standard, as it sparks a transformative shift in the EV charging landscape

It remains to be seen if current Ford & GM EV owners will get free adapters to use Tesla superchargers or have to buy them.

Update progress on **PetroCan refueling stations at Bowmanville Ave & 401** with pictures? Can anyone stop by this new location at the foot of Bowmanville Ave & 401 and check it out? Find out when it will be operational and let me know. I'll spread the word. Work is continuing on the OnRoute westbound at Newcastle, but no signs of gas pumps or EV DC fast chargers.

Ivy, ONroute and Can Tire plan to complete DCFCs at all 23 ONRoutes in Ontario this summer.

EV charging in Cobourg public parking lots –a small team of Sustainable Cobourg & EV Society members continue to work with Town of Cobourg officials with a proposal to install 16 EV chargers in 6 locations, primarily to encourage visitors to Cobourg spend more time in our stores & restaurants while their EVs get charged. At the same time, Cobourg residents who live in MURBs (condos & apartments) would be able to make use of the chargers year-round. Stay tune for further progress reports.

EV charging in MURBs (condos & apartments) - [Electric Autonomy's latest annual EV-ready multi-unit residential building bylaw report](#) finds some Canadian cities are making progress in lowering barriers to at-home EV charging, but many still lag.

As more municipalities plan bylaws to ensure new single and multi-unit residential buildings are wired for EV charging, [a Clean Air Partnership report analyzes costs and design strategies](#) and finds making new buildings EV ready is far cheaper than retrofits. The report finds that EVs provide significant savings for drivers. At-home EV charging equates to roughly \$0.20 cents per litre of gasoline but has a wide range of adjustments depending on location and time of charging. Maintenance costs of an EV are half that of an internal combustion (ICE) vehicle. On a life cycle cost, EVs are already competitive with ICE cars and with up-front purchase costs declining that competitiveness is only growing.

Within this context, the study approaches the issue of charging in new builds including MURBs, townhouses and single unit dwellings as something that should be prepared for on a “100% EV ready” level because of the benefits to owners and the new federal mandate for 100 per cent EV sales by 2035 (a separate analysis also considers a 20 per cent EV-ready scenario in line with Toronto's Green Standard version 3). To EV-ready new residential buildings, the report estimates, will cost \$1,500-\$1,800 per parking space in a high rise building and for \$2,000 or less in a townhouse or single unit home.

Hydrogen & Alternative Fuels – [Honda recently announced two new hydrogen projects](#) spanning both fuel cells and hydrogen-combustion engines. The automaker on Monday confirmed plans for a fuel-cell heavy-duty truck co-developed with Isuzu, which once sold passenger cars in the U.S. but has now

largely retreated into the commercial-vehicle sector. The two companies plan to demonstrate a prototype by next year, with a market launch following in 2027.

[On June 17, North America's first hydrogen-powered train debuted in Quebec.](#) The Coradia iLint train is **powered** by a hydrogen fuel cell that provides electrical energy by combining hydrogen stored in tanks on the roof and the oxygen present in the ambient air. Emitting only water vapor and condensed water, the train gives off zero direct emissions, greenhouse gasses, or chemicals.

[Rolls-Royce is considering hydrogen powertrains for future vehicles,](#) but in the form of fuel cells rather than combustion engines, the luxury brand's CEO said in a recent interview with [Autocar](#).

[BMW's math shows we need hydrogen cars.](#) The automaker makes a solid case for fuel cells as an alternative to — not a replacement for! — battery power

[Electric public transit and school buses – GO Buses charge ahead with electric-powered buses.](#) Starting May 15, you can travel on a zero-emission battery electric GO bus! “As we continue to test electric vehicle technology, our customers on GO bus routes 19, 27, 92 and 96B may have the opportunity to ride on one of our two EV buses.

[Electrification of Canadian school buses is progressing far too slowly and government to step up, says a new report by Dunsky.](#) Canada risks missing a major market electrification opportunity in e-school buses without aggressive action, according to a new report released by the Canadian Electric School Bus Alliance.

Electric Autonomy <https://electricautonomy.ca/> An excellent source for newsworthy items about EVs and the industry in Canada. Headlines and articles are updated several times a week. Sign up for your own free subscription.

Driving.ca – <https://driving.ca/category/vehicle-types/electric-vehicles/>

[Top 10 most efficient EVs on the Canadian market in 2023](#) They based this list of the 10 most efficient EVs in Canada in 2023 on the kilowatt hours per 100 kilometres measurement. This is a more meaningful number once you're living with an EV. It describes the exact amount of power that you'll be charged for on your electricity bill to drive 100 kilometres. You can find kWh/100 km figures for all EVs sold in Canada under the Battery Electric Vehicles section at the end of [Natural Resources Canada's 2023 Fuel Consumption Guide](#).

Clean Air Partnership (CAP) - events <https://www.cleanairpartnership.org/events/> and resources <https://www.cleanairpartnership.org/resources/>.

Clean Energy Review - <https://cleanenergycanada.org/clean-energy-review/Canadian-views-on-clean-energy/>. Use the link to see for yourself.

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