

In the not too distant future...

1



FLEETCARMA Camping EVs Are Better 2017



Electric Vehicle Council of Ottawa

January 27, 2025

Electric Vehicle Council of Ottawa Monthly Meeting



**KEEP  
CALM  
AND  
STAY  
FOCUSED**

# Agenda

- ▶ AGM
  - ▶ Financials
  - ▶ Vote for directors
  - ▶ Motion on audit
- ▶ BlueWave Update – warning messages
- ▶ Adaptors – Would you borrow one?
- ▶ DCFC – cost structure
- ▶ News
- ▶ Past and Future events
- ▶ Roundtable

# Vote for Directors - Board Status

Director Persons NOT seeking re-election so there will be three vacant board positions.

Craig Sweetnam - Director

Jessica Doyle - Director

Sam Lapierre - Treasurer

Persons previously elected in 2024 for two-year terms :

Mike Banks - Vice President

Cristen Fidler - Secretary

Lawrence Maroun - Director

We need to elect 5 directors



# Vote for Directors - recommended

Proposed candidates for positions on the Board of Directors:

Persons previously elected in 2023 for a two-year term who agree to seek re-election:

Raymond Leury  
Ryan Knuth

New board members seeking election:

Karl Joseph - on board in interim  
Adam Manzer - on board in interim  
Henry Loughlin

# Motion on Audit

- ▶ Audits are expensive
- ▶ Books are open to anyone who would like to have a look
- ▶ Proposed:
  - EVCO shall not do a formal audit
  - Requires unanimous approval from members

**BluWave**  **ai**

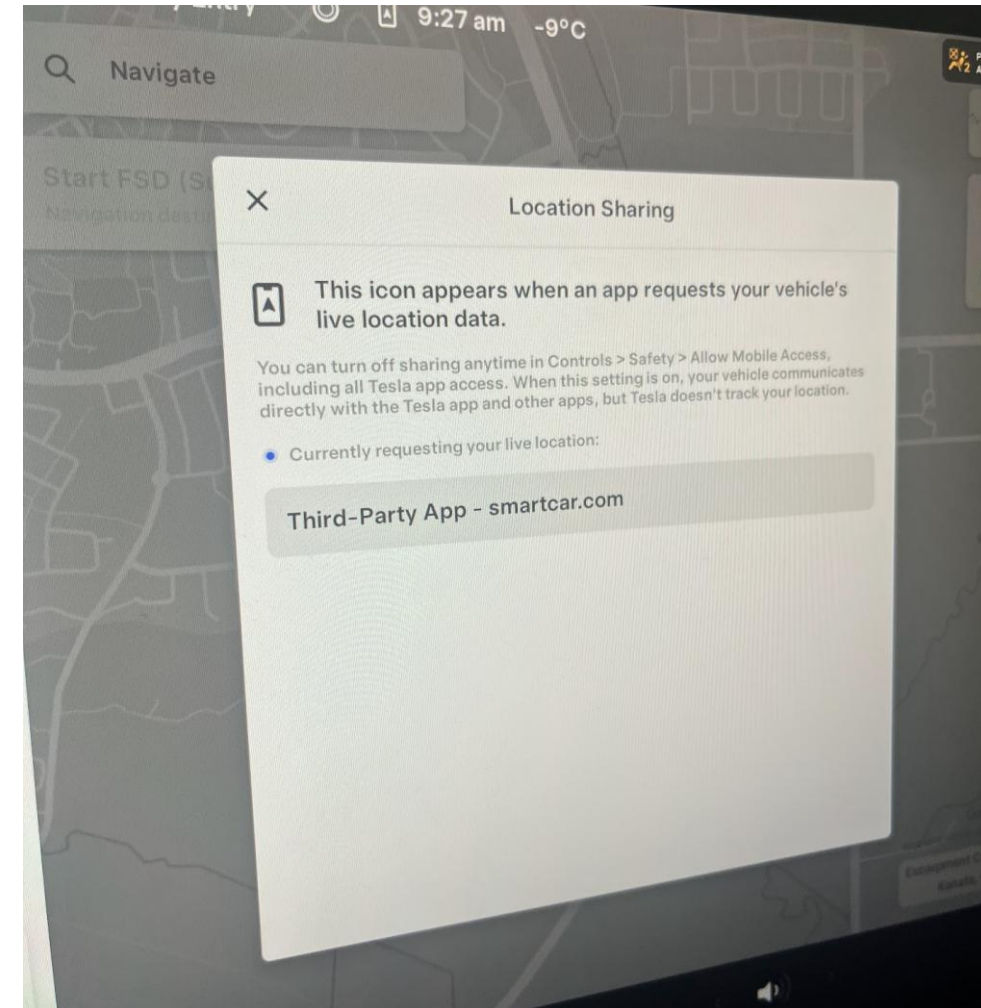
**EV Everywhere**





# Warning Message - Tesla

- ▶ SmartCar transitioned to Tesla's Fleet API
- ▶ "SmartCar is requesting your live location,"
- ▶ I see the icon all the time in that car.
- ▶ Upon further investigation, our engineering team discovered:
  - (1) These warnings appear immediately after linking your Tesla to our application and continue even after unlinking.
  - (2) Permissions requested by SmartCar are not fully revoked unless manually removed via Tesla's portal.
- ▶ Actively working with SmartCar to address these issues
- ▶ If you notice unusual behavior or warnings in your Tesla, you can manually revoke third-party permissions via Tesla's security portal as a temporary workaround.



# Adaptors - Would you borrow one if EVCO had some available to members?

- ▶ CHAdeMO adaptors
- ▶ V2L (J1772) – only useful for older vehicles
- ▶ V2L (NACS) – when available
- ▶ CCS1 to NACS – for Tesla to use CCS
- ▶ NACS to CCS1 – will be required by those with CCS plug to access future NACS and SuperChargers
  - ▶ Some manufacturers providing free of charge

# DCFC - Costs

# Costs

- ▶ Capital
  - ▶ > \$100,000 per DCFC
  - ▶ Charger, transformers, construction, etc.
- ▶ Electricity - based on [Enmax in Calgary](#)
  - ▶ Service Fee' of \$25.85/day
  - ▶ Demand charges are fees for being connected to the power grid that are based on the maximum power
    - ▶ Capture the cost of the infrastructure that is required to meet your maximum need
    - ▶ 'Facilities Charge', Non-Ratcheted Demand Charge', and 'Demand Charge'
    - ▶ \$0.15/day/kW, \$0.05/day/kW, and \$0.36/day/kW
    - ▶ "ratcheted" rates, which means they move up or down based on the maximum value experienced over multiple billing periods
  - ▶ Fixed, peak, and variable
    - ▶ \$25.85/day - D310 rate - \$801/month
  - ▶ Electricity - Enmax ROLR rate of \$0.12/kWh plus the D310 'Variable Charge On Peak) value of \$0.009/kWh

# Example

- ▶ 200kW charger that is used for 30 minutes to charge an EV for 100kWh
- ▶ Demand charges
  - ▶  $(\$0.15/\text{day}/\text{kW} + \$0.05/\text{day}/\text{kW} + \$0.36/\text{day}/\text{kW}) \times 31 \text{ days} \times 200\text{kW} = \$3,472$
- ▶ Electricity - 100kWh charge that would cost  $(\$0.12/\text{kWh} + \$0.009/\text{kWh}) \times 100\text{kWh} = \$13$
- ▶ One charging event:
  - ▶ Enmax to the EV charger owner would be  $\$801 + \$3,472 + \$13 = \$4,286$

# Examples

Item	Ex 1	Ex 2	Ex 3	Ex 4	Ex 5	Ex 6
kW	200	200	200	200	200	200
Demand/day/kW	0.56	0.56	0.56	0.56	0.56	0.56
Days	31	31	31	31	31	31
Demand Charge	3472	3472	3472	3472	3472	3472
Electricity/kWh	0.129	0.129	0.129	0.129	0.129	0.129
Service Fee/day	25.85	25.85	25.85	25.85	25.85	25.85
Service Fee/month	801.35	801.35	801.35	801.35	801.35	801.35
kWh/charging session	100	100	100	100	100	100
Electricity cost/session	12.9	12.9	12.9	12.9	12.9	12.9
Load	<b>0.07%</b>	<b>2.08%</b>	<b>4.17%</b>	<b>10.01%</b>	<b>25.00%</b>	<b>50.00%</b>
Number of charging sessions/month	1	31	62	149	372	744
Total Electricity cost	12.9	399.9	799.8	1922.1	4798.8	9597.6
<b>Cost</b>	<b>4286.25</b>	<b>4673.25</b>	<b>5073.15</b>	<b>6195.45</b>	<b>9072.15</b>	<b>13870.95</b>
Cost/session	4286.25	150.75	81.825	41.580201	24.3875	18.64375
<b>Cost/kWh</b>	<b>42.8625</b>	<b>1.5075</b>	<b>0.81825</b>	<b>0.415802</b>	<b>0.243875</b>	<b>0.1864375</b>
		1 time/day	2 times/day		1 every 2 hrs	1 every hour
kWh over 12 months	1200	37200	74400	178800	446400	892800
Capital Cost/kWh	13.5625	0.4375	0.21875	0.0910235	0.03645833	0.0182292
<b>Total Cost/kWh</b>	<b>\$56.43</b>	<b>\$1.95</b>	<b>\$1.04</b>	<b>\$0.51</b>	<b>\$0.28</b>	<b>\$0.20</b>

# How do you make this work?

- ▶ Procure less than potential max
  - ▶ 20 Chargers x 350kW = 7,000kW for a large Tesla SuperCharger location
    - ▶ Probably rarely exceeds max of 2,500kW
      - ▶ Charging curve ramp up/down over a session
      - ▶ Many cars won't do 350kW
      - ▶ Majority of time only small portion of stalls used
    - ▶ Procure 2,500kW
    - ▶ Spread load over chargers
  - ▶ Lower capital investment
- ▶ Variable rates to spread load over longer period

# The News

January 2025

Electric Vehicle Council of Ottawa (EVCO)



**Lawrence Maroun**  
Board Member, EVCO




# Kia's Tesla Supercharger Adapter Is Rolling Out Now

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- Adapters will be available "soon" according to Kia
- They will be free for owners who purchased after Sept 2024
- Supercharger access will follow the adapter deployment
- Source: <https://insideevs.com/news/748511/kia-ev6-ev9-nacs-tesla/>





# Trump Issues Executive Orders Against EV and Wind Progress

- Trump issues two EOs that largely concern EVs and Wind
- The first is to eliminate stricter vehicle emissions standards which would have encouraged more electrification
- The second temporarily halted federal approvals for lease sales of offshore wind projects in federal waters and restricted federal agencies from issuing new permits or loans for onshore or offshore wind projects.

Source: <https://www.nbcnews.com/science/climate-change/trump-executive-orders-electric-vehicles-wind-power-rcna188814>

# 2026 Cadillac Lyriq-V: The Quickest Cadillac Ever Is Electric

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- GM has announced the Lyriq V for release next year
- It will be the most powerful Cadillac
- 615hp and 0-60 in 3.3s
- It will include upgraded brakes and suspension
- Source:  
<https://insideevs.com/news/748322/2026-cadillac-lyriq-v-quickest-cadillac-ever/>





Not news - please appreciate this i5N cutaway



# ChargePoint develops uncuttable charging cables to stop thieves

- ChargePoint has developed cables wrapped in difficult to cut materials including polymers similar to kevlar and hardened steel
- The cables can also detect being cut and sound an alarm
- Source: <https://arstechnica.com/cars/2025/01/chargepoint-develops-uncuttable-charging-cables-to-stop-thieves/>



# GM's Next Commercial EV Could Be A Rebadged Hyundai

- GM and Hyundai have signed an MoU to explore collaboration opportunities
- The automakers have confirmed possible badge swapping, with Hyundai supplying commercial vehicles and GM supplying pickup trucks to be sold in other markets as Hyundais
- Source:  
<https://insideevs.com/news/748304/hyundai-rebadged-commercial-ev-gm/>





## Tesla V3 and V4 Superchargers Now Warm LFP Batteries in Extreme Cold

- Tesla has deployed software that allows superchargers to directly heat LFP battery packs by applying an "AC Ripple Current"
- This is much more powerful than the car's built-in heating system
- This technique will be useful on the coldest days and for cases when drivers don't have time to precondition en route.
- It is unclear if this can be rolled out to NMC / NCA cars.
- Source: <https://driveteslacanada.ca/news/tesla-v3-and-v4-superchargers-now-warm-batteries-in-extreme-cold-heres-how-it-works/>





## Tesla announces significant price increases up to \$9,000 for all models in Canada on February 1

- Tesla has published a message on its website for Canadian customers indicating upcoming price increases
- \$4000 in increases are promised for the Y, S, and X
- \$9000 in increases are intended for the Model 3
- Source: <https://driveteslacanada.ca/news/tesla-announces-significant-price-increases-up-to-9000-for-all-models-in-canada-on-february-1/>



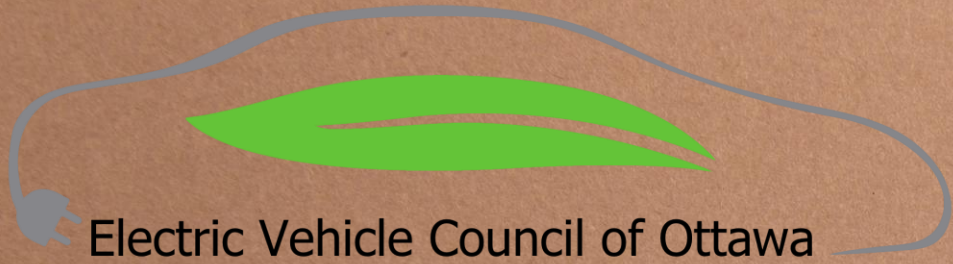
## Tesla Model Y refresh debuts in North America, Launch Series includes FSD

- The Model Y "Juniper" is available for order in Canada
- For now, only the "launch edition" is available for \$84,990
- The launch edition includes FSD, acceleration boost, and all options for no extra cost
- Source: <https://driveteslacanada.ca/news/tesla-model-y-refresh-debuts-in-north-america-launch-series-includes-fsd/>

# Past Events

Reaching outside the bubble!





Electric Vehicle Council of Ottawa

# EVCO Kilowatts & Coffee

Saturdays, 10am-noon

November-January dates and locations:

- Nov 30<sup>th</sup> - Place d'Orleans Starbucks (food court), Orleans
- Dec 7<sup>th</sup> - Second Cup, 1715 Merivale Rd, Nepean
- Dec 14<sup>th</sup> - Place d'Orleans Starbucks (food court), Orleans
- Dec 21<sup>st</sup> - Second Cup, 1715 Merivale Rd, Nepean
- Jan 4<sup>th</sup> - Place d'Orleans Starbucks (food court), Orleans
- Jan 11<sup>th</sup> - Second Cup, 1715 Merivale Rd, Nepean
- Jan 18<sup>th</sup> - Place d'Orleans Starbucks (food court), Orleans
- Jan 25<sup>th</sup> - Second Cup, 1715 Merivale Rd, Nepean

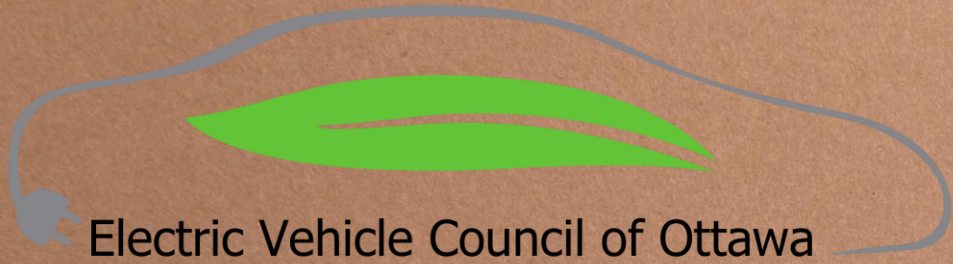


# Upcoming Events



## Monthly Meeting - February 24<sup>th</sup>

- ▶ Will also have a Teams meeting for those who can't be there in person and to record
- ▶ Institut canadien-français d'Ottawa
  - ▶ 316 Dalhousie, Ottawa
  - ▶ Free on-street parking after 5:30PM
- ▶ Refreshments will be available (at your expense)



Electric Vehicle Council of Ottawa

# EVCO Kilowatts & Coffee

Saturdays, 10am-noon

February dates and locations:

- Feb 1<sup>st</sup> - Place d'Orleans Starbucks (food court), Orleans
- Feb 8<sup>th</sup> - Second Cup, 1715 Merivale Rd, Nepean
- Feb 15<sup>th</sup> - Place d'Orleans Starbucks (food court), Orleans
- Feb 22<sup>nd</sup> - Second Cup, 1715 Merivale Rd, Nepean



# Minor Events

- Jan 29 – Condo – Kent St
- Feb 25 - TALK program – BC
- Feb 26 - Good Companions Centre



# Salon du véhicule et loisir électrique Outaouais – Apr 11-13

- Looking to make the show bilingual
  - **English site**
- Looking for volunteers for test drives
  - Dealer Vehicles as much as possible
  - French AND **English – don't need to be bilingual**



[ACCUEIL](#) [PLAN DU SALON](#) [CONFÉRENCES](#) [EXPO](#)

**11, 12 ET 13 AVRIL 2025**

# Blackburn Hamlet Discovery Café

- Apr 24 -7-8PM - Thursday
- Presentation
- Show and tell afterwards

# North Grenville Sustainability Fair and EV Show

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Apr 27 – 10-3PM (Sunday)

Booth

Test drives

Dealer vehicles

**SAVE THE DATE!**

Celebrate the 16<sup>th</sup> Annual  
**NORTH GRENVILLE  
SUSTAINABILITY  
Fair & EV Show**

**Sunday, April 27, 2025. 10am – 3pm**

North Grenville Municipal Centre • 285 County Road 44, Kemptville

**FREE ADMISSION!**

The poster features several images: a white electric car with its hood open, a woman playing a cello, a woman and a child at a table, a woman and a child with a globe, and two women standing together. There are also icons for a bicycle and a car.

# EarthFEST Carleton Place

- May 3<sup>rd</sup>
- Booth
- Test drives

# Membership

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- ▶ Please sign up
- ▶ Helps us with insurance and other expenses

## Membership fees – New for 2024!

Plugged In

\$30/year

[Subscribe](#)

Charging

\$50/year

[Subscribe](#)

Fast Charging

\$100/year

[Subscribe](#)

## Donate

As we ramp up our activities we are appreciative of anyone wishing to help fund our efforts. If you would like to provide a donation in addition to your annual membership, you can do so here:

[Donate to EVCO](#)



# EVCO

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The Electric Vehicle Council of Ottawa (EVCO) is dedicated to promoting the use of elec...more

[evco.ca](http://evco.ca)

🔔 Subscribed ▾

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# Roundtable!!





Electric Vehicle Council of Ottawa