



July 2024 FVEAA Newsletter

Fox Valley Electric Auto Association

The FVEAA is a Not-For-Profit Illinois Corporation and the Chicago-area chapter of The Electric Auto Association

This month's meeting is on Friday **July 19, 2024**
7:00 p.m. and will be IN-PERSON and on-line

Location:

Unitarian Universalist Society of Geneva
102 S 2nd St, Geneva, IL 60134

MAP:  Unitarian Universalist Society of Geneva

Meeting starts at 7pm and will run until about 9pm.

Topic: FVEAA Monthly Meeting

Time: Fri July 19, 2024 6:45 PM CT (pre-meeting setup check), Meeting 7:00 PM

Join Zoom Meeting:

[Zoom Meeting Link](#)

Dial-in for audio-only users: Call: 312-626-6799

Enter Meeting ID when prompted: 95901481473#

Participant ID: (blank, just #) *6 mutes/unmutes

Agenda

- 6:45 Virtual Meeting Starts (to test connections)
- 7:00 Introductions
- 7:40 Discussion on how often you charge your EV
- 8:20 Break
- 8:30 Update on Jeff's HVAC system after one month of running
- 9:00 Close

June Meeting

Thanks to everyone for coming out, and bringing tasty things to eat. I had fun grilling out and talking EV's until the sun went down! Thanks to John Balk for booking the venue for us, as always it's a great place to meet outside.

July Meeting

We are going to meet indoors again, as it's getting hot and muggy. We are going to discuss how frequently we charge, as a group, and how to have conversations around best practices there. After the break I will give a presentation on how my heat pump system is running, how much money it has saved me compared to last year, and pictures and information from the install. My wife called the installation of the outdoor unit the "Tower of Terror".

How often do I charge my car?

I frequently get into the discussion about how often I charge my car. At a high level there are two big factors, technical / battery longevity, and operational / availability. I think we would all agree that to maximize usefulness, the car would always be at 100%, charged to full anytime it stops moving. I think we would also agree that the batteries in currently available vehicles generally wouldn't like that. Some are more tolerant than others, but generally 100% all the time isn't the best for long term life. 40% is considered ideal for long term storage, but terrible for operational availability.

This paper discusses SEI layer growth as one of the factors in capacity reduction.

<https://pubs.rsc.org/en/content/articlehtml/2021/cp/d1cp00359c>

If you read through it you will find that the deeper the average cycle is, the more cracks that form in the SEI layer. Those cracks then lock up more Lithium, reducing the capacity of the battery. During daily use, I replace the energy each day, to limit the growth of cracks, and as such capacity loss during that type of use. Obviously during longer trips, I can't do this, and accept that wear as a fact of life.

Most of us have heard the guidance that 80% is a reasonable state of charge for a battery pack to sit at for long periods of time. I feel like this gives me enough range to handle most emergency situations. For example my son decided to protest in Milwaukee the other day, and it was hot out. I got a call from the paramedics that they were picking him up, and taking him to the hospital. My other son and I drove up to Milwaukee, with no notice for charging, and no need to stop for fast charging. After some searching we did locate the Blue Bolt, and it went home with my other son. I then collected my son from the hospital, went back downtown to pick up his friend, and then drove to Gurnee for some food before dropping his friend off and finally going home. This took over 70% of my 80%, and obviously those later steps could have included charging if I had needed it. If I would have been at 50%, I would have needed to stop and charge on my way into Milwaukee. Not everyone has teenagers that seem to have a frequent flier card to the emergency room, but I feel like daily charging, even if it's only 3%, is worth the minimal effort for my car. This does result in me doing strange things, like charging multiple short sessions in a single day, because I don't know I am going back out later.

I had a great time on Sunday, July 14 talking about EV's and the FVEAA to attendees at the Woodstock Planet Palooza Event. The theme was "Make our Planet a Better Place to Live." I displayed my wife's new 2024 VW ID 4.

Speaking of VW there is a lot of news on the VW front. First VW announced it will invest up to \$5 billion in Rivian as part of a new, equally controlled joint venture to share EV architecture and software. I believe this is a win, win for both companies.

Next VW and solid-state batteries:

From Reuters:

"Volkswagen has secured production of solid-state batteries developed with U.S. startup QuantumScape. Solid-state batteries can hold more energy than current liquid electrolyte batteries. Automakers and analysts expect them to speed transition to EVs by addressing their often-limited range, which remains a major consumer concern. Under the agreement, Volkswagen's battery unit PowerCo can manufacture up to 40 gigawatt-hours (GWh) per year using the QuantumScape technology, with an option to expand to 80 GWh, which is enough to equip approximately 1 million vehicles annually, they said."

More details at: <https://tinyurl.com/y3st362p> (<https://tinyurl.com/y3st362p>)

And finally, last month I purchased a 2024 Red VW ID.4 RWD for my wife. (She wanted the same car and same color). I received the \$6000 VW promotional discount off the MSRP that only lasted until July 1st and the Federal Tax Credit of \$7500 at the point of sale. I then sold her 2021 ID.4 to Carvana for what I considered a good price.

The biggest changes to the 2024 id.4 I like are:

1. Greater range -291 miles (vs 250)
2. More horsepower -282 (vs 201) due to new electric motor design
3. Faster DC fast charging -175 kw (vs 125kW) and id.4 will condition batteries prior to reaching a fast charger stop
4. Better infotainment display.
5. New premium audio system: Harmon Kardon

I am looking forward to seeing everyone at the meeting this Friday in Geneva and at the huge Geneva Concours d' Elegance auto show on Sunday August 25th.

Stay Charged! Tracey



Thanks to Jeff the master chef for cooking up dinner!



Great to see Ted Liu, Bob Baker, Maureen Stillman and Chuck Carrington at the Geneva picnic.



Ron Johnson, Kyle Platt and Ken Johnson



Dave Martinson and Bob Kaplow's wife enjoying the food and conversation.



Mike Moravek, Don Brown, Doug Brezina and Jeff Miller enjoying the **EV**ening.



Planet Palooza in Woodstock-Tracey and Kyle



Planet Palooza Event Bob Kaplow, Anna Platt, Kyle Platt and Tracey McFadden

Restrictions in Federal Tax Credit for installing EV Chargers – for more densely populated, higher income areas.-

Bruce Jones

Not sure if you all were aware but there were updates to the Federal EVSE tax credit, and most, if not all folks installing EV charging stations in more densely populated, higher income areas will not be eligible for the 30% tax credit.

To see if your property is “qualified” or “not qualified” on the “eligible census tract,” go to the Community Development Financial Institutions Fund (CDFI) map and get an 11-digit number for the property. Click on it to determine if you are “qualified” or not. It may take some poking around to get it to work but the answer to qualification is on this web site:

<https://www.cdfifund.gov/cims>

See also the following web sites for Credit info, the tax forms and instructions for Form 8911.

FEDERAL - Alternative Fuel Vehicle Refueling Property Credit

Federal Tax Incentives for EV chargers

<https://afdc.energy.gov/laws/ev-tax-credits>

Federal Tax Form 8911

<https://www.irs.gov/pub/irs-pdf/f8911.pdf>

Instructions for Form 8911:

<https://www.irs.gov/instructions/i8911>

EV Price Example - Chevy

Tom Coleman

My intent below is not to be a car salesperson, but for advocacy purposes and to inform, Chevy is finally introducing the long-promised 2025 model year Chevrolet Equinox EV – available soon. With all EV inventories slightly higher and sales slightly lower, this may be a very good time to leverage a deal with this model. Here are key things to consider and share in your advocacy:

MSRP \$34,995 MSRP (well-equipped model)

- Final cost \$27,495 purchase cost with the IRA tax credit (often available to all now as a credit at the dealership)
- Will be one of the lowest-cost EVs on the market
- Likely battery range same as 2024 models at 319-miles (very good)
- Destination charge included (\$1395)
- Front-wheel drive (AWD on optional models)
- 220 horsepower (very good)
- 243 b-ft of torque (very good)
- 17.75" infotainment screen
- 19" wheels

https://www.greencarreports.com/news/1143774_2025-chevy-equinox-ev-price-range-specs?utm_source=GCR+-+Daily+Headlines&utm_campaign=83fc4021a7-EMAIL_CAMPAIGN_2024_07_13_04_05&utm_medium=email&utm_term=0_7e18d5fd93-83fc4021a7-%5BLIST_EMAIL_ID%5D

Upcoming EVents -

Rich Hirschberg

***If you know of upcoming car shows, cruise nights, parades, or get-togethers, please shoot me an email - GoAFVs@yahoo.com

Upcoming EVents – Summer/Fall

1. The 7th Annual Summer Celebration Car, Truck, & Cycle Show (Rich Hirschberg)

A charity event for the VFW Post 5151 & The Schaumburg Township Food Pantry

***Since the FVEAA is a sponsor of this show, some volunteers are needed for the day or part of.

Sat., July 20, 2024

10:30 am to 3:30 pm

The Schaumburg Home Depot, 100 Barrington Rd., Schaumburg, IL 60194

THE PUBLIC IS FREE

PARTICIPANT FEE (donation): \$10.00 per **show vehicle** + non-perishable foods + Operation Airlift items

The Schaumburg Township Food Pantry – donating food to those in need in the Schaumburg Township area.

VFW Post 5151's OPERATION AIRLIFT – sending care pkgs. to those serving overseas.

Event features: a mustache contest, sports memorabilia auction, cool trophies, food vendors, tons of door prizes, a silent auction, the Boardwalk featuring Home Depot vendors, contractors, artists, & charity partners, DJ music, and lots of awesome vehicles!

www.HomeDepotVehicleShow.weebly.com

2. Geneva IL Concours d' Elegance auto show

Sunday August 25th 10 a.m. to 4 p.m.

The annual Geneva Concours d' Elegance auto show will be held on Sunday August 25th. Between 10 am and 4 pm. This is a great opportunity to show off your EV, mingle with antique car collectors and members of our group as well as enjoy a beautiful day in beautiful downtown Geneva IL. This is one of the biggest and most prestigious car shows in the Midwest. There will be thousands of people in attendance. All cars must be registered for the event.

Here is the website to download the form to mail in and register your EV for the event:

<https://tinyurl.com/3b6uz9eu>

The entry fee is \$25 and all proceeds go to the Living Well Cancer Center in Geneva.

Note: In the registration form under Car Club Information fill in the blanks as indicated below:

Name of Car Club __FVEAA__ Club-Region __Fox Valley__

Club Contact _Tracey McFadden_ Contact-Number _630-365-5773_

For more information please go to the Concours d'Elegance website:

<http://genevaconcours.net/index.htm>

3. The Carillon Club Car Show (Bruce Jones)

Carillon Coordinator Linda Negele <izzabob3@gmail.com> 248-701-7054

The HOA clubhouse - the intersection of 95th and 248th in Naperville, IL about 1 mile west of the intersection of 95th and Route 59.

Saturday, Sept 21, 9 a.m. - 12 noon

Showing EVs will be part of a fair to educate HOA residents on environmental issues.

4. NDEW 1 - Northern Event (Rich Hirschberg)

Saturday, Sept. 28th

TIMES & LOCATION - TBA

5 Saturday, Oct. 5th

TIMES & LOCATION - TBA

6. Electric & Hybrid Vehicle Tech Expo - North America

Oct. 7-10, 2024

Huntington Place, Detroit, MI

<https://www.evtechexpo.com/en/home.html>

The Battery Show and EVT Expo is moving! Now entering its 14th year, North America's largest advanced battery event taking over Huntington Place in Downtown Detroit this October.

Electric & Hybrid Vehicle Technology Expo brings together engineers, business leaders, top-industry companies, and innovative thinkers to discover ground-breaking products and create powerful solutions for the future.

More than 19,000 attendees are expected to take advantage of four full days of educational sessions, networking opportunities and, of course, explore the latest market innovations from over 1,150 exhibitors across one of the world's largest battery technology trade shows. Become part of this great event!

Take care,
Rich Hirschberg
(c/t) 847.347.7171
Email: GoAFVs@yahoo.com

FVEAA business cards available! Ted Lowe

See one of the officers to get some cards to hand out to people at various Events and daily life to promote EVs and our organization!

Fox Valley Electric Auto Association

PO Box 214 630-260-0424
Wheaton, IL 60187-0214 contactfveaa@fveaa.org

Free Yourself From The Pump^{fm}



Join Us and Discover How!

Check fveaa.org for details about our **monthly meetings!**



You can use the many membership-only tools on our website after you login! If you haven't logged in to our website already, please check your email for instructions and login to check it out! Please let me know if you have any questions. Thanks!



FVEAA Web Report

as of 2024-07-18 04:58:11

Website Registered User Statistics

Statistic	Value
Total Users	115
Users Never Logged In	40
% Active Users	65.2%
Ave. Days Since Last Visit	783.8 days

The **FVEAA Facebook group** has 135 members as of 1/17/24! If you're on Facebook but not in the group yet, please join us! If you're not on Facebook yet, please consider joining so you can join our group there. This group supplements our forums because it is much easier to use, read, post pictures and videos and get notifications. Please let me know if you have any questions/comments/suggestions. Hope to see you there!

<https://www.facebook.com/groups/889497691136309/>

Here is the **FVEAA's Facebook Page**. Like Us!

<https://www.facebook.com/FoxValleyElectricAutoAssociation>

The **Fox Valley Electric Auto Association** has a YouTube channel! Subscribe to us and check out our videos! We've had this channel for many years but we're going to start using it more to attract new members and promote EVs. Please let me know if you have some FVEAA-related videos to post.

https://www.youtube.com/channel/UCg_Pgp6g-HEuMICWMO2akPw

Membership Update

Keep an eye on the **active paid-up** members count! Many members have taken advantage of the multi-year renewals offered by the new website! **Please renew & recruit new folks!!!**



FVEAA Membership Report

as of 2024-07-18 04:58:10

Count of Members by Type

Membership Type	Count	Paid Up
Charter Business	1	1
Family	4	4
Individual	63	63
Lifetime	2	2
Totals	70	70

Other Statistics

Statistic	Value
% Paid Up	100.0%
Avg. Paid Up Days	352.1 days
% With Email	97.1%

Encouraging Our Membership To Grow and Some History

We are growing! We live in a large metro area with 8 million people and EVs are the latest buzz so we should be able to grow the FVEAA! **Please invite your friends, neighbors, family, colleagues**, etc. to FVEAA meetings and Events. Volunteer to attend Events on behalf of the FVEAA (with or without an EV)! Your ideas on how to help grow the FVEAA are welcomed at any time, thanks! Howard Hansen had a **great idea**... giving an FVEAA membership as a gift!

Here is a time-varying graph of our membership size from 2007 to now. Note that we peaked at 255 members in October 2008 when gas was nearing \$5 per gallon. We were also attending lots more invitational Events with our converted EVs. The first Tesla Roadster was just coming into being. **Let's get out there and grow the FVEAA!!!**

FVEAA Paid Up Members as of July 18, 2024 11:13am



Monthly Treasurer Reports

Ted Lowe

As Treasurer, I am publishing a brief Treasurer's Report to our forums around the time our monthly newsletter is published.

I am publishing our various cash balances (Money Market, Checking, PayPal) to this location:

[FVEAA Committees](#) > [Finance](#) > [Treasurer Reports](#)

This area of the forums can only be seen by FVEAA members. As an IL Non-Profit corporation, we have no requirement to publish our assets or financial statements publicly.

Feel free to contact me if you have any FVEAA financial matters to discuss.

Membership Renewals

Ted Lowe

Our membership system sends out "renewal reminder emails," before your membership is due. You will receive up to 3 before being marked "not renewed" (inactive). The sooner you renew, the fewer emails you will receive :) So please pay attention to your email from the FVEAA and renew online using this link (for the easiest approach for all of us):

<https://www.fveaa.org/renew>

THANK YOU for your continued support of the FVEAA!

Notes

The cookout meeting began informally around 6:30 p.m., it was hot!
Jeff cooked up a delicious batch of burgers and brats
Others joined in and brought tasty food to share
EV discussions ensued and there was laughter everywhere

Thanks everyone for a great dinner and conversation!
The meeting ended just as informally around 9:00 p.m. give or take.

FVEAA Membership Application Form - Version 2023-12-04

Name: _____

Address: _____

City, State Zipcode: _____

Phone: _____ Phone Type: Home ___ Work ___ Cell ___

Email: _____

Please check one: New Member _____ Renewal _____

How did you hear about the FVEAA ? _____

Membership Types and Annual Dues (please circle one):

Individual	\$20 (1 year), \$38 (2 years), \$56 (3 years)
Business	\$100
Premier Business	\$250
Charter Business	\$500
Youth (21 or younger)	\$10

Newsletter Delivery Type (please circle one): No Newsletter Electronic

Please make checks payable to "FVEAA" and postal mail it with this membership application form to:

FVEAA
PO Box 214
Wheaton, IL 60187-0214
Attn: Membership

FVEAA Charter Business Members

Illinois Alliance for Clean Transportation (IACT)

Samantha Bingham
2 N LaSalle St #950
Chicago, IL 60602
Email: info@il-act.org
Web: <https://il-act.org>



Illinois Alliance for Clean Transportation (IACT) (formerly known as Chicago Area Clean Cities) is a 501(c)(3) not-for-profit working to promote the use of clean fuels for clean air throughout Illinois. Our alliance includes people from private business, academia, government, scientific research and energy and environmental services. Our main goal is to help with the adoption of cleaner transportation options.