



August 2022 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 **August 19, 2022**
7:00 p.m. and will be **IN-PERSON** and **VIRTUAL**

NOTE DIFFERENT MEETING LOCATION FOR August

DuPage County Forest Preserve District

3S580 Naperville Rd, Wheaton, IL 60189

MAP

[Google Map](#)

We are using the Zoom video-conferencing platform to hold this **HYBRID** meeting. Zoom runs on all computers and phones. Some setup is required prior to your first use of Zoom on your device of choice. Connect to the meeting a bit early (6:45pm earliest) by using the link below to test your connection. Please call Ted Lowe (630-260-0424) if you want help getting Zoom installed on your device of choice. You can also dial-in on your telephone to have an audio-only connection (see phone number and meeting ID below). The audio on your device will be automatically muted upon entering the call to avoid disrupting the call.

Pre-meeting setup starts at 6:45

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

Topic: FVEAA August 2022 Monthly Meeting

Time: Friday August 19, 2022 6:45 PM CST (pre-meeting setup check), Meeting 7:00 PM

Join Zoom Meeting:

<https://us02web.zoom.us/j/95901481473?pwd=U npJVUJOUmVPOFZqR013ZFpPbzM0UT09>

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

Enter Meeting ID when prompted: 95901481473#

Participant ID: (blank, just #) *6 mutes/unmutes your line, *9 raises your virtual hand

Contact us if you need the password for audio only calls.

Topic: FVEAA August 2022 Meeting

Time: Fri August 19, 2022 7:00 PM CST

Agenda

- 6:45 Virtual Meeting Starts (to test connections)
- 7:00 Drew Bergenthal for update on DuPage County Forest Preserve
- 7:15 Introductions
- 8:00 Chris Rojas will show his Rivian pickup truck!
- 8:30 Jeff with a short update on the EV credits in the Inflation Reduction Act
- 8:45 Simon with EV myth busting (if time permits)
- 9:00 Close

President's Words

Jeff Miller

Please pay special attention to the events section below, let's spread the word!

July Meeting

Sorry for the craziness in July, we were planning to meet outdoors, and the weather scared us into an indoor meeting. This changed all of our plans. Thanks to Dave who happened to come prepared to talk about his 1940 Ford conversion project. Dave's car is really neat, and it is amazing to see the progress he is making on it. I also spoke about my solar array. I spoke about the economics of it, the incentives, and choices I made that makes it slightly different than an average install. From the economics side I am looking at a 5 year payback on my investment, which is quick enough for me. One of the ways my install differed from a normal install is the conduit coming down from the roof goes through the house, and not down the outside. All of my equipment, except the safety disconnect switch, is inside the house. If I live here long enough I dream of adding an additional 2 to 4 inches of insulation under the siding to increase the total R value of the walls, and I didn't want to have to mess with conduit running the height of the house. Plus it doesn't look great.

August Meeting

Drew from DuPage County Forest Preserve is going to give us an update on their fleet. Last year he discussed their plans to electrify their fleet, and discussed how so many of the people like driving the Chevy Bolts. I am hoping he has news about other electric vehicles joining their fleet soon! We will then have the privilege of drooling over Chris Rojas' Rivian pickup truck, so be ready with your questions for him. I will give an update on the Inflation Reduction Act, which is dramatically changing the world of Federal EV credits. There are income limits, MSRP limits, and rules around sourcing of the batteries for the vehicle to qualify. This is much more complicated, however I expect some of the uncertainty to be resolved by an update to the <https://fueleconomy.gov/feg/taxevb.shtml> website.

Heating and AC upgrade at my house

The Inflation Reduction Act has passed the Senate and the House and it includes substantial rebates on energy efficient upgrades for houses and businesses. I plan to capture what I can from those credits, and will hopefully cover them in detail in a future meeting. Just like the EV rebates there are income limits, however there are still good rebates even if your household income exceeds those limits. My understanding is that I should be able to get \$2000 on my HVAC upgrade.

EV charging install credits return

If I have read the legislation properly the 30% tax credit for installing residential charging has returned. I haven't had a chance to confirm that yet, but I am sure it will be once the bill is signed into law by President Biden.

Events

NDEW (**National Drive Electric Week**) Events are being planned now, check below for links to them and sign up to volunteer and/or bring your EV.

Articles I found interesting:

<https://www.congress.gov/bill/117th-congress/house-bill/5376>

<https://arstechnica.com/cars/2022/08/us-production-of-the-vw-id-4-is-underway-with-a-new-cheaper-model/>

If you can find one, this is a great deal.

<https://arstechnica.com/cars/2022/08/what-do-we-do-about-all-the-people-who-cant-charge-an-ev-at-home/>

<https://www.science.org/content/article/dazzled-doubtful-new-u-s-climate-deal-draws-range-reactions>

<https://arstechnica.com/science/2022/07/us-regulators-will-certify-first-small-nuclear-reactor-design/>

<https://arstechnica.com/cars/2022/07/we-test-an-electric-mercedes-that-can-go-747-miles-on-a-single-charge/>

<https://arstechnica.com/cars/2022/07/electric-cars-are-doomed-if-fast-charger-reliability-doesnt-get-better/>

This is always a concern, especially for the small stations, use plugshare to comment so others know the status of stations.

<https://arstechnica.com/science/2022/08/mit-scientists-create-color-shifting-films-inspired-by-19th-century-holography/>

Hopefully this technology ends up as a low cost way to change the solar absorption properties of our buildings.

<https://idot.maps.arcgis.com/home/webmap/viewer.html?webmap=5f1f179a09c840988fcd0a334d5a5053>

The map of charging routes supported by CEJA.

Gibson's Garage

Simon Gibson

(A new feature of the Newsletter . . . perhaps Simon will provide articles in future editions?)

Some interesting reading - I get a monthly, in print journal from <https://www.techbriefs.com>. Some of the articles I've found interesting are:

Ecological Power Storage Battery Made of Vanillin

<https://www.techbriefs.com/component/content/article/tb/pub/briefs/energy/46296>

Maximizing the Performance of Battery Cells for Better Energy Storage

<https://www.techbriefs.com/component/content/article/tb/pub/briefs/energy/46298>

A Heat Engine with No Moving Parts

<https://www.techbriefs.com/component/content/article/tb/pub/briefs/sustainable-technologies/46300>

And for those who are struggling with an EVSE installation at home:

Siemens and ConnectDER Partner to Offer Plug-in Home EV Charging Solution

<https://connectder.com/siemens-and-connectder-partner-to-offer-plug-in-home-ev-charging-solution/>
<https://new.siemens.com/us/en/company/press/press-releases/smart-infrastructure/siemens-and-connectder-partner-on-home-ev-charging.html>

Simon

Upcoming Events - Summer/Fall 2022

Rich Hirschberg

Sun., **August 28, The Geneva Concours d' Elegance Auto Show**

- This premier auto show has thousands of attendees and hundreds of vehicles from around the country. It is a great opportunity to display our electric vehicles and talk about EVs and the FVEAA.
- Geneva, IL - arrive by 9 am to 4 pm
- Download registration form at:
<http://genevaconcours.net/Media/Media-pdfs/GC-car-club-registration-21-pdf-version.pdf>
- Under the Car Club Information section enter:
Name of Car Club - FVEAA Club Region - Naperville/Fox Valley
Club Contact - Tracey McFadden Contact Number - 630-365-5773
- Registration form **must be mailed** with a check for \$20. The tax-deductible proceeds go to Living Well Cancer Resource Center, Geneva IL.
- Please mail your registration early to ensure we get some parking slots as this event fills up quickly.
- More information is available at: <http://genevaconcours.net/index.htm>

(NATIONAL DRIVE ELECTRIC EVENTS LISTED RIGHT AFTER CONCOURS D'ELEGANCE)

2022 Geneva Concours d'Elegance

Sunday August 28, 2022 -10:00am to 4:00pm

Classic Car enthusiasts will gather again this year in Geneva, Illinois to view a beautiful collection of antique, classic and modern automobiles. Participants from all over the Country will display their prized automobiles on Third street and some will be awarded one of the coveted "Benz" Trophies. Third Street is the heart of Geneva's charming downtown shopping district lined with shops, restaurants, parks and historical buildings. This event was open to the public at no cost making this a wonderful family event with something for everyone to enjoy and marvel. The Geneva Concours d'Elegance is a great opportunity in the area to view this fantastic collection of award-winning, unique and rare automobiles.

GENEVA CONCOURS *d'Elegance*

Sunday August 28, 2022 -10:00am to 4:00pm.

Sign up and bring your EV for a
fun day in beautiful Geneva, IL



NATIONAL DRIVE ELECTRIC WEEK EVENTS

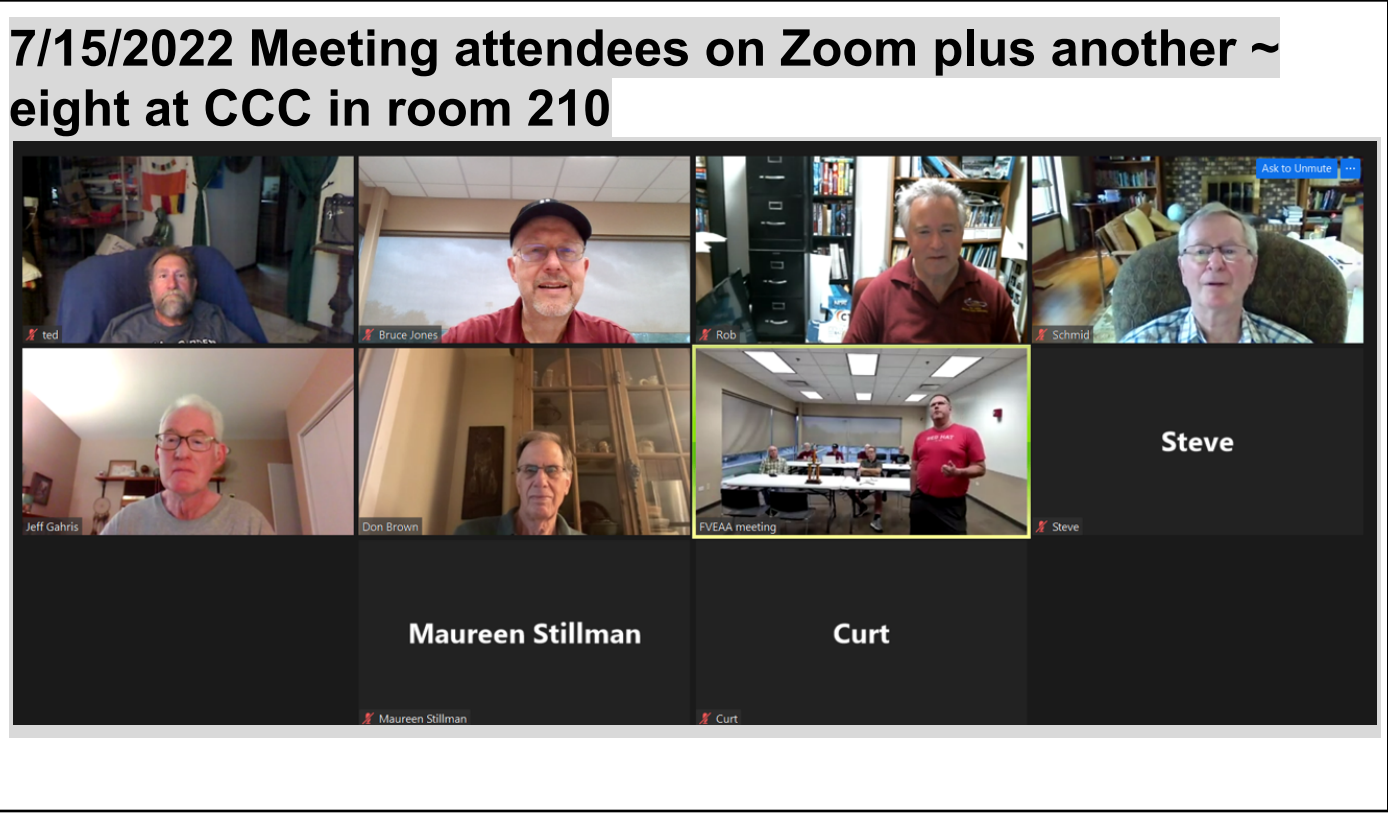
Sat., **Sept. 24**, National Drive Electric Week Event - NORTHERN EVENT

- Location: Spring Hill Mall, West Dundee, IL
- 10:30 am to 3:30 pm
- Featuring many different EVs, Ride-N-Drives, alternative fuel vehicles, **EAGL Awards**.
- From NDEW Site: This EV-ent is the first of two that the **Fox Valley Electric Auto Assn.** (FVEAA.org) produces. It is on the **north** side of the **old SEARS store** and in front of the old **bookstore** in the mall where the charging stations are. We have our other event on Sat., Oct. 1st at Fox Valley Mall in Aurora. We are the Northern Illinois chapter of the EAA and are excited to share our experiences of owning, driving, learning about, and wearing the "EV Grin". With **Nissan** as the National Sponsor and member's OEM and home-built EVs present to check out, there's sure to be something that you find interesting and maybe take for a test drive.
- Free to attend & display your vehicle
- [National Drive Electric Week • FVEAA - Northern NDEW Event • West Dundee, IL • Sep 24, 2022](#)

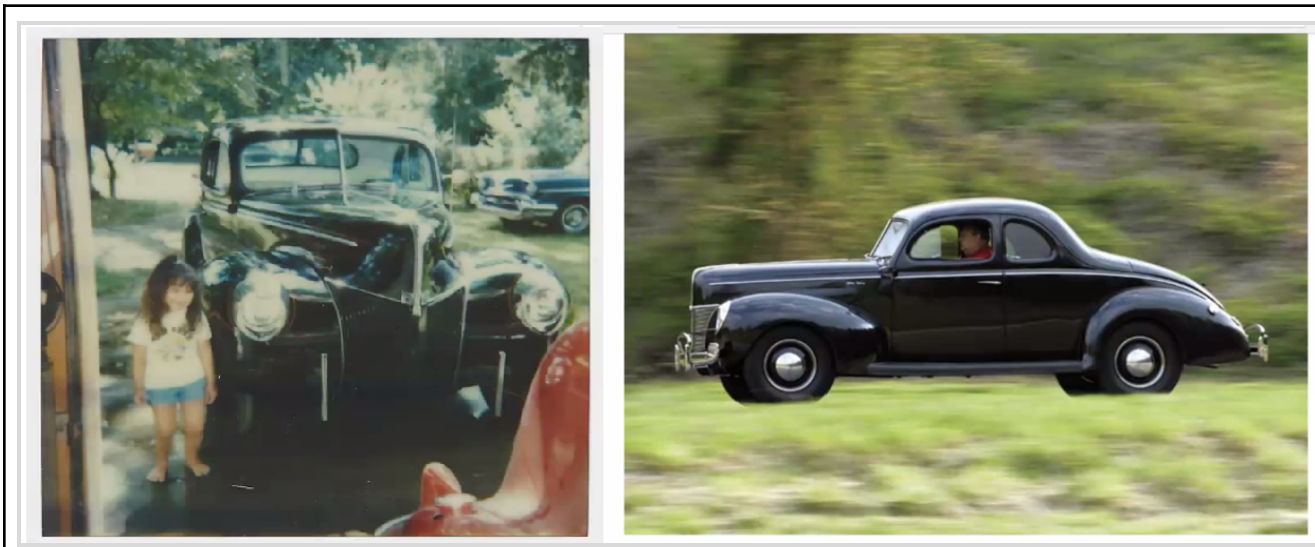
Sat., Oct. 01, National Drive Electric Week Event - SOUTHERN EVENT

- Location: Fox Valley Mall, Aurora, IL
- 195 Fox Valley Center Dr., Aurora, IL 60504-4106
- Times: 11:00 am - 4:00 pm
- This event is to allow non-EV drivers the ability to learn from local dealers and current EV drivers the real EV experience. You'll see member's OEM vehicles as well as home-builts.
- Featuring many different brands and club member's EVs, Ride-N-Drives, the EV Grin.
- Free to attend & display your vehicle
- [National Drive Electric Week • FVEAA-Fox Valley Mall Drive electric • Aurora, IL • Oct 01, 2022](#)

Photos of our Meeting July 15, 2022 Bruce Jones



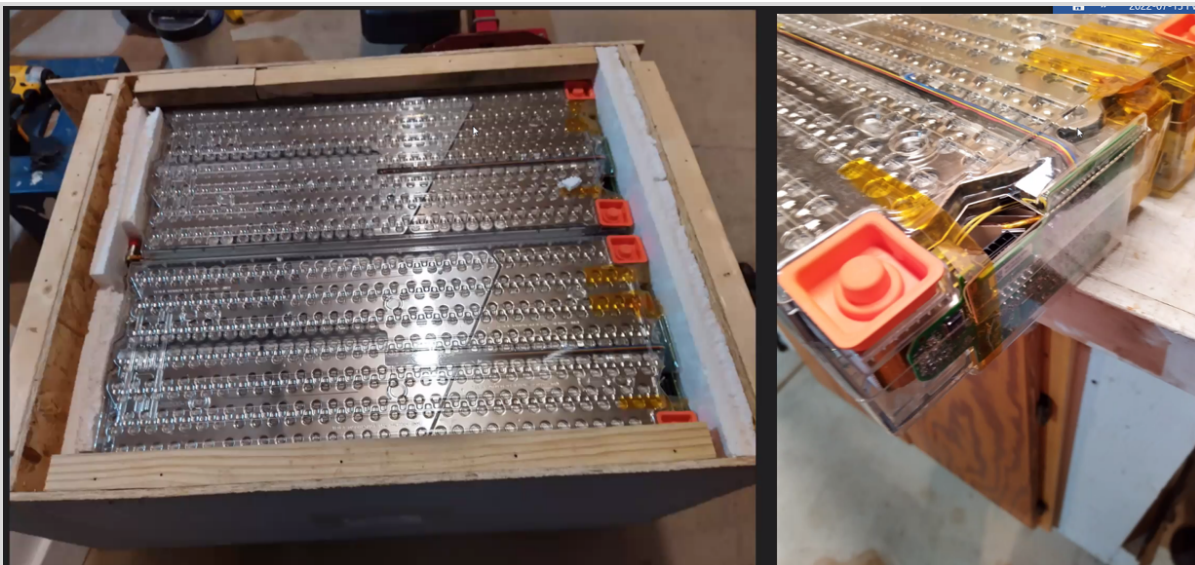
Dave presented his plans for converting a 1940 Ford to electric. He's making good progress using a Netgain Motors HyPer9HV™ AC motor with 7 Tesla battery modules



Stock photos of 1940 Ford

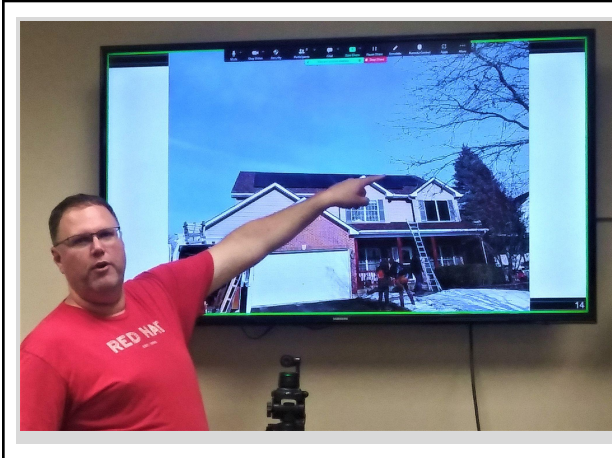


5 speed Chevy T5 transmission (left)



Tesla batteries. Now waiting on a motor /transmission adapter plate from Canadian EV

Jeff Miller presented his plan to put solar on his house



Miller Solar Array

Rules of Solar install

- .Maximum production of 110% of annual demand
- .Power is limited to only 25% of panel rating, or it has to be connected directly to customer side of the meter
 - This means a 200A panel can only have a 50A backfeed circuit

Solution I chose

- .25 400 watt panels 10KW DC
- .Enphase iq7+ microinverters, limited to 295VA
- .7.4KW AC
- .Enphase equipment in the basement
- .Safety disconnect is the only thing on the side of the house, and it has very short conduit runs to it

Rich Hirschberg showing some trophies being presented at his upcoming car show in Schaumburg



Sat., July 23, The 5th Annual Summer Celebration Car,

Truck, & Motorcycle Show, Schaumburg, IL organized and hosted by Rich Hirschberg



Rich - runnin' the show



With help from Jeff and..



Carl Wallin assisting behind the trophies



Great cars of all kinds...

Rich (right) getting help picking door prize tickets





Login to our FVEAA website for access to lots of member-only tools! Ted Lowe

Hi Folks, 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 2022-08-17 04:58:08

Website Registered User Statistics

Statistic	Value
Total Users	91
Users Never Logged In	33
% Active Users	63.7%
Ave. Days Since Last Visit	488.5 days

FVEAA On Facebook - Join Us! Like Us! Ted Lowe

The **FVEAA Facebook group** has 119 members as of 1/17/22! 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>

FVEAA On YouTube - Check out our videos!

Ted Lowe

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_Pgp6q-HEuMICWMO2akPw

Membership Update

Ted Lowe

We currently have **67 active paid-up** members. 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 2022-08-17 04:58:07

Count of Members by Type

Membership Type	Count	Paid Up
Business	1	1
Family	3	3
Individual	62	61
Lifetime	2	2
Totals	68	67

Other Statistics

Statistic	Value
% Paid Up	98.5%
Avg. Paid Up Days	332.4 days
% With Email	97.1%

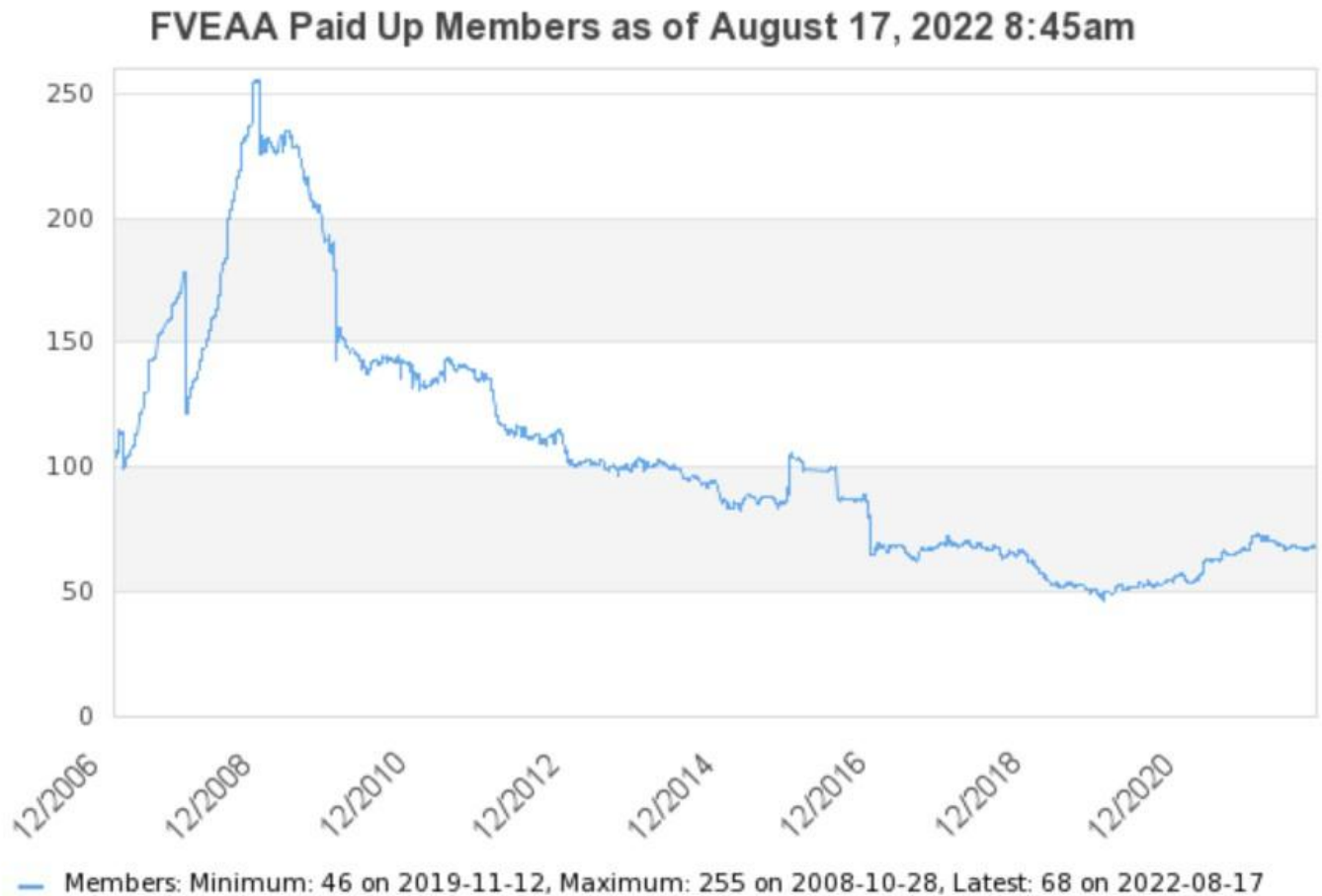
Encouraging Our Membership To Grow and Some History

Ted Lowe

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!!!**



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!

Meeting Minutes - July 15, 2022

Bruce Jones

INTRODUCTIONS

- >>Thanks to Marty who set up the video/audio gear for our hybrid meeting at the last minute as we moved to CCC due to inclement weather<<
- Jeff opened the meeting at 7:08 and held introductions on-line and around the room
- Due to the switch in location, and some presenters not available we had the opportunity to show the following!

DAVE'S 1940 FORD CONVERSION TO EV

- Dave presented photos of his black 1940 Ford in "before" mode and he's making progress
- He will be replacing the 350CU inch gas motor with a Netgain Motors HyPer9HV TM AC motor powered by around 7 Tesla battery modules.
- Power disc brakes and T5 Chevy transmission (5 speed)
- He's anxiously awaiting an adapter plate from Canadian EV to interface between the motor and transmission, as there have been some delays... Hope it arrives soon Dave
- Great project Thanks Dave for sharing!!

UPCOMING EVENTS - RICH HIRSCHBERG

- Rich Hirschberg presented upcoming EVents - including the Schaumburg Home Depot coming up next
- Rich also brought a few examples of the great trophies he will be handing out, built mainly by one of his co-workers. Beautiful job!
- Remember to individually register for the Geneva Concourse D'Elegance at the end of August.

JEFF MILLER - PLANS FOR SOLAR PANELS

- Jeff discussed his plans and design for adding solar panels to his house
- using 25 x 400 W panels, total 10 KW DC array, annual production should be around 12MWh
- Which is less than Jeff's home annual consumption of 20MWh
- He's planning to connect the panels directly to the circuit breaker panel and not to the meter as it is easier to service, and limits equipment on the exterior of the house.
- Taking advantage of the Federal rebate and State RECs (Renewable Energy Credits) will reduce the cost tremendously
- Total estimated out of pocket after credits is \$8130 with 4.8 year payback

NEW FVEAA BUSINESS CARDS

- Ted Lowe showed the new refreshed and up to date FVEAA business cards he designed
- He ordered 500 cards and will hand out some to Jeff tonight for upcoming shows.
- Thanks Ted!

16 years AGO!

Fox Valley Electric Auto Association

PO Box 214
Wheaton, IL 60189-0214

630-260-0424
contactfveaa@fveaa.org



AC Propulsion's tZero EV

Free Yourself From The Pump^{fm}



Join Us and Discover How!

NEW CARDS - Thanks Ted!

Fox Valley Electric Auto Association

PO Box 214
Wheaton, IL 60187-0214

630-260-0424
contactfveaa@fveaa.org

Free Yourself From The Pump^{fm}



Join Us and Discover How!

Check fveaa.org for
details about our
monthly meetings!



NEXT MEETING IS FRIDAY August 19, at the DuPage County Forest Preserve District (Danada) headquarters (We'll try again!)

ADJOURN

- The meeting adjourned at 8:57 p.m.

FVEAA Membership Application Form - Version 2014-01-01

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
Business	\$100
Premier Business	\$250
Charter Business	\$500

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 Business Members

EV Converters LLC

Rolly Waller
130 Windsor Park Dr, C121
Carol Stream, IL 60188
Cell: 630-865-5744
Email: rolywaller@gmail.com



EVC will become a Franchisor (when the US government approves the conversion rebate) to appoint Franchisees (eg, service stations, oil change shops, transmission shops, independent mechanics, etc.) to convert Internal Combustion Engine (ICE) vehicles to electric vehicles (EV).