



December 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 Vehicle Association

This month's meeting is a Holiday Party on Friday **December 13, 2024**
6:00 p.m. and will be **IN-PERSON**

**Location: The Great Escape –(847) 671-7171 NO Zoom conference for this
9540 W Irving Park Rd, Schiller Park, IL 60176**

Pre-registration required. \$10 per person co-pay, to be collected at the door.

MAP: [The Great Escape Restaurant](#)

Meeting starts at 6pm and will run until about 9pm.

Topic: FVEAA Monthly Meeting

Time: Friday December 13, 2024 - 6:00 PM CT

Agenda

- 6:00 Arrive, Eat, Entertainment, Have Fun!

President's Words

Jeff Miller

November Meeting

Thanks to Ted Liu for speaking about the vehicles he experienced in India. They are well on their way to becoming a force in the car market, and I am glad to see they have so many good electric cars. I also presented on the evacuation and testing of the refrigerant lines for Mitsubishi heat pumps, and more general guidance. It's not difficult, but does require specialized tools that can definitely add up. If you are doing many units though, it's going to pay off to obtain the tools, if you have the desire to tackle the job.

December Meeting

We are having dinner at The Great Escape Restaurant. I hope to see many of you there, and look forward to the food and conversation.

2025 Event list, please see list at the end of newsletter, and reach out to sign up to volunteer.

i-Miev Repair

As I mentioned at the last meeting the Mitsubishi i-Miev has been unhappy lately, limping around town, and falling into turtle mode far more than it should. Getting into trouble shooting the cute little car, I reached for my Bluetooth OBDII dongle and had to search around for a tool to read codes from the car. The Torque and Piston apps were no longer out there, so I downloaded Car Scanner. After connecting to my dongle I pulled the codes P1A08 and P1A0B. A quick internet search gave me a list of forum posts that all said the same thing, Shifter Position Sensor failure.

A particularly good link, with pictures etc.

<https://myimiev.com/threads/repair-shift-position-switch-on-gearbox.4972/>

As with any good system the i-Miev has redundant shift position sensors, however if it loses one of them it drops into turtle mode (a gas car equivalent of a CEL / Open Loop fuel mixture). In turtle mode, the car is very slow, and limited to about 30 MPH. This is better than being dead on the side of the road though!

The dual position sensors are located on the rear drive unit, and exposed to all of the elements that hit back there. Around here that obviously includes salt water, which is bad news for mechanical - electrical components, which is what this seems to be.

I couldn't find any references to the part number for this sensor, so I called my friendly Mitsubishi dealer, and paid a bit more than I would have if I could have ordered it online. For those that are curious, the part number for my 2012 i-Miev shift position sensor is 8604A029, and I paid \$222.22 for it, versus the online price of around \$130. From what I have read, there are different versions of this sensor, so please don't just jump to the conclusion that this is the correct sensor for your i-Miev. The good thing about going through the dealer was that I got the right part on the first try, and didn't have to do any guesswork. They needed the VIN to get the right part, so that tells me there might be variations in the design even in the 2012 model year.

Installing the sensor was fairly straightforward, I didn't even need to jack that car up, it would have made it a tiny bit easier, but it wasn't required. As I have been accumulating tools for many years now, I had every tool to make the job easier, including a very low clearance impact wrench for backing off the 14mm nut from the shaft. Of course I soaked it in PB Blaster first to give it a chance of not destroying the threads on the shaft and / or nut in the process.

Tips:

Put the car in neutral, chock the wheels, and set the parking brake (if the back wheels are on the ground), leave it in neutral the whole time. (this requires leaving the key in the ignition, so plan accordingly) It's apparently a challenge to connect the cable back up if the car is in park, and you can't get the car out of park if the sensor isn't installed. (there are likely exceptions to this statement)

There is an alignment hole on the lever arm, and the sensor that you use to align the sensor to the shaft/drive unit combination, as the mounting holes are oblong for adjustment purposes. The shifter has to be in neutral for that to be useful. Confirm the shifter is actually still in neutral (it's likely to move a bit as you work on the shaft nut) and move the sensor until the two holes align, insert a properly sized pin or drill bit, and then tighten the mounting bolts. Please don't apply any real torque to the alignment pin as the hole in the sensor is plastic, and likely won't be happy if you apply torque to it.

The i-Miev is for sale! It's cheap for fellow club members.

Heat pumps!

My friend in Arizona called with an update letting me know his house has been staying nice and warm with the heat pumps he installed. Also important, he has been having cold weather, and his electricity cost is much lower than years prior.

My system has been beating my expectations. I figured by 10 degrees it would be running in backup heat, but so far it hasn't resorted to firing up the resistance elements. This is good news for me, as most of our winter is 10 degrees or warmer. Obviously we will have those really cold nights, and we will be running the expensive stuff then, but thus far that is a rarity.

Charging station repair

I installed the new parts in one of the EVSE in my garage, however the unit was boot looping (constantly starting, and then restarting, never getting up and running). This was resolved by unplugging the newly supplied wifi module. I restored service using one of the old wifi modules that I had from the second station that stopped working. One station is back up and running, leaving only one left to repair. It hasn't been used lately, due to our unusual parking format of having five cars, and wanting all of them to come and go as we please.

Vice President's Words

Tracey McFadden

Season's Greetings,

I just had the 4 snow (winter) tires put on my wife's VW Id.4 so she is ready for some snowfall. Jeff gave me good advice to do this. In my research I discovered a study by Consumers Reports that concluded "Even on dry pavement at temperatures just below freezing, stopping distances for vehicles with winter tires are as much as 30% shorter than for vehicles with all-season tires".

The Illinois EPA pollution Control board is considering instituting a set of rules that 12 other states have already instituted. These are called the Advanced Clean Truck Rule (ACT) and the Advanced Clean Car Regulations II (ACC II) ACT requires manufacturers who sell medium- and heavy-duty vehicles to sell zero-emission vehicles as an increasing percentage of their annual sales from 2024 to 2035. ACC II decreases emissions by increasing electric vehicle (EV) sales via two programs: The Zero-Emission Vehicle (ZEV) program stipulates that ZEVs, defined as battery-electric vehicles (BEVs) or fuel-cell-electric vehicles (FCEVs), must make up an increasing portion of annual vehicle sales.

I attended the hearing in Chicago intending to speak on behalf of the FVEAA. Believe it or not they stopped taking testimony after an hour and a half, which was about when I was next to speak. But I submitted my comments in written form and will have the opportunity early next year to submit oral testimony. Below is the testimony I was going to give (each organization or person is allowed only 3 minutes). I look forward to seeing you all at the upcoming Christmas Party.

The Letter to EPA Pollution Board

I'm Tracey McFadden, Vice President of the Fox Valley Electric Auto Association. We are a chapter of the national Electric Auto Association where I am certified as an Electric Vehicle (EV) Educator. I give seminars and talks around the Chicagoland area on EV adoption. I am a retired airline captain as well as a veteran of the US Air Force.

I am here to urge the Illinois Pollution Board to adopt the ACT and ACC-II rules for Illinois just as a dozen other states have done. While many testimonies here today focus on the critical need to

adopt these rules to fight climate change and improve public health, I will focus on my area of expertise, which is the electrification of our transportation system.

The main point I want to emphasize is that electric trucks and cars are available now and new ones are continually being developed to rid our state of the toxins affecting our health and contributing to climate change. Amazon, FedEx, UPS, PepsiCo, Walmart, and Ryder Systems are examples of major corporations that are already reaping the benefits of using electric trucks to transport goods. Furthermore, factories in Illinois are already producing electric package delivery vehicles and school buses. I point this out only to illustrate that this is not some pie sky idea but it is a reality right now which only needs to be expanded, with dates to ensure we move in the right direction.

Transitioning from diesel to electric trucks has compelling benefits for the environment, for business, and for individuals. In addition to zero emissions, reduced carbon pollution and improved air quality, electric trucks have lower operating costs, reduced maintenance expenditures, and abundant torque.

Fact.MR, a provider of market research, states “the global electric truck market is predicted to expand at a Compound Annual Growth rate **of 14.5%** to reach a valuation of **\$78 billion** by the end of 2033.” Major electric semi-truck and last mile truck producers include Tesla, Nikola, Volvo, Freightliner, Rivian, Ford, General Motors, Mercedes, Nissan, and BYD.

Furthermore, the Illinois' supply chain is vast and quickly pivoting to meet the needs of the EV industry in Illinois. Rivian, Navistar, EVBox, Komatsu are companies which are all located right here in Illinois.

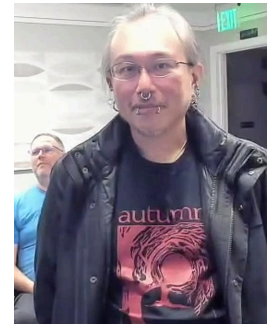
In summary I strongly encourage the Illinois Pollution board to adopt the standards of ACC and ACT-II as other states around the nation are doing. We depend on you to protect us and make us safe.



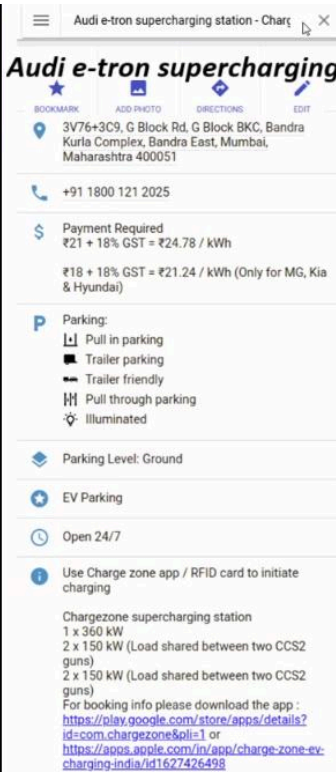
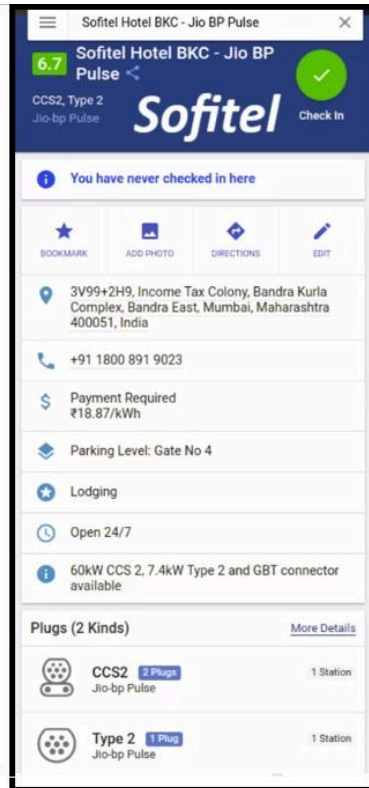
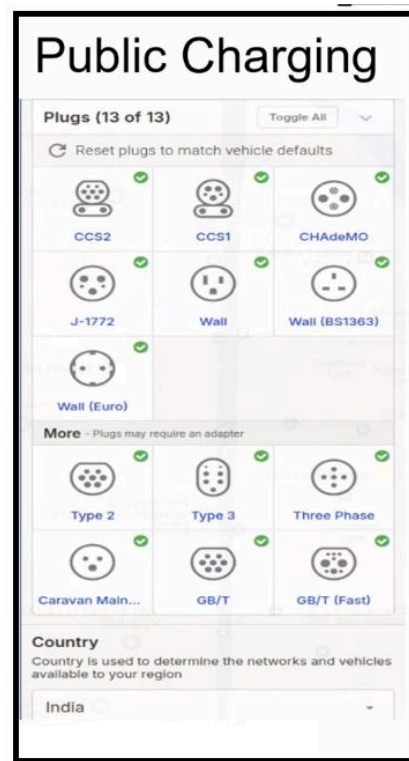
Meeting attendees at the FVEAA meeting, Unitarian Universalist Society of Geneva



On-line meeting attendees



Ted Liu talked about Mumbai EVs and charging infrastructure



Charging Infrastructure and plugs in Mumbai



Jeff explaining the intricacies of heat pump installations

Prepare mounting locations



Installing a Mitsubishi Mini-Split Heat Pump

What do we need to do to have a successful install
Focusing mostly on the refrigerant portion of the install

Prepare locations

- No special tools are required to mount equipment to walls
- Mount equipment to studs as normal, and use drywall plugs where required to stabilize the base of the indoor unit
- For the outdoor unit, mount the crossbar to the studs, and hang the vertical arms
- Set the unit in place on the vibration isolation pads
- Run the line set and cables between the units

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

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

FVEAA HOLIDAY PARTY - FRIDAY, DEC. 13, 2024

Put it on your calendar! Here is the list of 23 attendees who have registered as of Fri. Dec 6, 2024
FVEAA RSVPs - Christmas Party 2024

		YES (Qty of attendees)
Jeff	Miller	2
Tracey	McFadden	1
Rich	Hirschberg	1
Marty	Belovicz	1
Bruce	Jones	1
Bob	Baker	1
Steve	Ledger	1
Howard	Hansen	2
William	McDaniels	2
Maureen	Stillman	1

Kyle Platt 1
Larry Haynes 1
Doug Brezina 2
Lane Allen 2
Ken Johnson 4
23

The FVEAA holiday party

Fri., Dec. 13th

The Great Escape, 9540 W Irving Park Rd, Schiller Park, IL 60176

847.671.7171

The restaurant will need the most accurate headcount 1 week prior to our party (FRI 12/06/2024)

Co-payment for the event is **\$10 per person, collected at the door, cash if possible.**

Family style meals

NOTE: They have 3 EV charging ports at parking spaces at the base of the wind turbine

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
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!

fveaa.org

The graphic features a white electric car parked at a charging station with solar panels in the background. Below the car is the text 'Join Us and Discover How!'. To the right, there is a call to action to check the website for meeting details and a stylized logo of a car with the website address 'fveaa.org' written on it.

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

Ted Lowe

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 2024-12-11 04:58:11

Website Registered User Statistics

Statistic	Value
Total Users	119
Users Never Logged In	41
% Active Users	65.5%
Ave. Days Since Last Visit	864.9 days

FVEAA On Facebook - Join Us! Like Us!

Ted Lowe

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>

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/@evsforever/videos>

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 2024-12-11 04:58:10

Count of Members by Type

Membership Type	Count	Paid Up
Family	4	4
Individual	60	60
Lifetime	2	2
Totals	66	66

Other Statistics

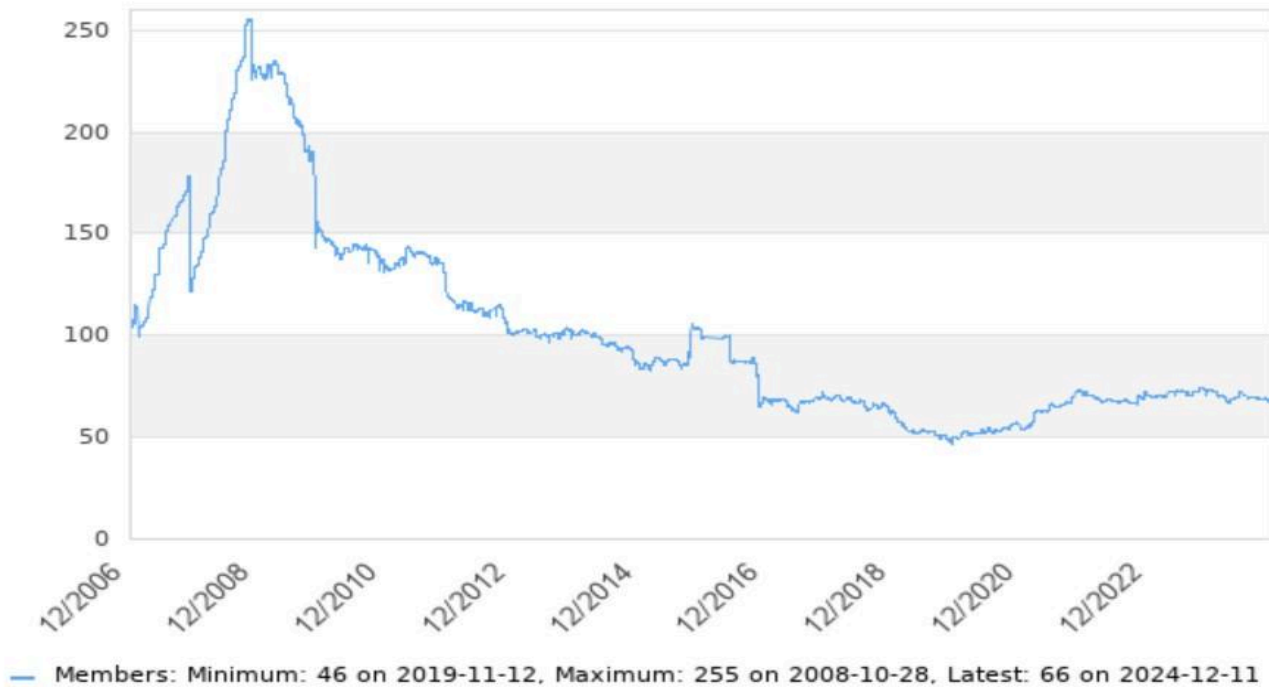
Statistic	Value
% Paid Up	100.0%
Avg. Paid Up Days	406.8 days
% With Email	97.0%

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 December 11, 2024 8:43am



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 November 15, 2024

Bruce Jones

INTRO

- The meeting started at 7:05 p.m.
- Jeff Miller began the meeting by reflecting on the recent presidential election and its

potential implications.

- Then he held introductions all around
- Note that Jeff is selling his 2012 IMIEV

Ted Liu on EVs in Mumbai India

- Board member Ted Liu recently went to Mumbai for 2 weeks on business and checked out the EVs there and the charging infrastructure.
- Ted has become our unofficial travel expert, providing interesting tips, observations and experiences as he checks out electric vehicles wherever his travels lead him.
- There are many EVs in India but most look like normal cars, so they are not as easy to spot.
- See his presentation at <https://bit.ly/3Yww2a8>

EVs and EV infrastructure in India per Ted's presentation

- Tata Tigor
<https://ev.tatamotors.com/tigor/ev.html>
<https://www.cardekho.com/tata/tigor-ev/specs>
https://stat.overdrive.in/wp-content/odgallery/2018/10/47465_2018_Tata_Tigor.jpg
- BYD Atto 3
<https://www.overdrive.in/reviews/byd-atto-3-review-first-drive-impressive-real-world-range-tested/>
<https://www.autocarindia.com/cars/byd/atto-3>
<https://www.overdrive.in/news-cars-auto/updated-byd-atto-3-launched-at-rs-24-99-lakh/>
<https://www.91wheels.com/expert-review/byd-atto-3-all-variants-explained-in-detail-starting-at-rs-24-99-lakh>
<https://paultan.org/image/2022/02/BYD-Atto-3-launch-Australia-official-1.jpg>
- Plugshare
Sofitel <https://www.plugshare.com/location/478406>
Audi e-tron <https://www.plugshare.com/location/582772>

Break

Jeff Miller on Installing Mitsubishi Mini Split Heat Pumps

- Jeff went on a deep dive into heat pumps and explained many facets of how the Mitsubishi Mini-Split works, based on his recent experiences installing them . . . in his spare time!.
- Amazing Mr. Jeff

END = The meeting ended at 9:10 p.m.

NOTE SEE 50TH ANNIVERSARY PLANNING WORKSHEET AT END OF NEWSLETTER!

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

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**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.

2025 FVEAA SPECIAL 50TH ANNIVERSARY EVENT - CHAIR and Committee Sign Up					
MONTH 2025	2025 FVEAA ANNIVERSARY MEETING / EVENT	CHAIR	EMAIL	PHONE	NOTES
JANUARY					
FEBRUARY	Special Speaker North Central College	Maureen Stillman	maureen.stillman@gmail.com	630-605-0629	
		Chris Sharp	greenenergytriad68@gmail.com	630-780-3271 (h)	
MARCH					
APRIL	Joint event w IL Solar Energy Assoc. 50th				
	https://illinoissolar.org/#:~:text=Founded%20in%201975%2C%20incorporated%20in,the%20majority%20of%20its%20history.	Ted Lowe	ted.lowe@fveaa.org	630-260-0424	
		Howard Hansen	hghnsn@yahoo.com	708-243-3054	
MAY	Union IL Electric Train museum / ride	Rob Schwartz	rschwartz350@sbcglobal.net	847-833-7598	
		Rich Hirschberg	goafvs@yahoo.com	847-347-7171	
		Chris Sharp	greenenergytriad68@gmail.com	630-780-3271 (h)	
		Jeff Miller	millerjeffreys@gmail.com	630-540-8351	
JUNE	Friday June 20 Summer Solstice Event/ Cookout.	Marty Belovicz	martin@totalsystemintegration.com	847-321-5734	
JULY	Fun Event for FVEAA	Tracey McFadden	tracer500@gmail.com	630-697-5115	
		Marty Belovicz	martin@totalsystemintegration.com	847-321-5734	
	Wheaton July 4th Parade	Ted Lowe	ted.lowe@fveaa.org	630-260-0424	
	Tailgate party Kane County stadium - throw first pitch				

AUGUST	Sport - Chicago EV mixed Celebration	Marty Belovicz	martin@totalsystemintegration.com	847-321-5734	
	Ted Liu - coordinate a Tesla Meetup w Chicago and Michigan	Ted Liu	tedliu@sector0.net	312-285-0845	
		Tracey McFadden	tracer500@gmail.com	630-697-5115	
SEPTEMBER	Parade -	Laura Baus	haushaus4@sbcglobal.net	224-279-5681	prefer texts
	Grundy County Corn Festival Parade or other location?	Sharon White	peezmom@gmail.com	630-533-1181	
		Phil White	phil@photofill.com	630-269-7933	
	National Drive Electric Event - North	Rich Hirschberg	goafys@yahoo.com	847-347-7171	
OCTOBER	Fox Valley Mall 50th car show combination event with National Drive Electric Week-South	Marty Belovicz	martin@totalsystemintegration.com	847-321-5734	
	(note- 1983 car show at the Fox Valley Mall)	Tracey McFadden	tracer500@gmail.com	630-697-5115	
NOVEMBER					
DECEMBER	Special Dinner Celebration w speakers	Chris Sharp	greenenergytriad68@gmail.com	630-780-3271 (h)	
		Howard Hansen	hghnsn@yahoo.com	708-243-3054	
		David Aarvold - (Chris Sharp to provide)			
OTHER					
	50th Anniversary Literature - promotions	Chris Sharp	greenenergytriad68@gmail.com	630-780-3271 (h)	
	Promotions				
	Batavia historical society event (Batavia Lions Club having 50th anniversary event this year 2024) http://batavialionsclub.org/				
	Library Displays	Chris Sharp	greenenergytriad68@gmail.com	630-780-3271 (h)	
	Banners	Bruce	bjone35@aim.com	630-864-9669	