



# **Society for Smart E-Mobility**

## **E-NEWSLETTER**

**April , 2024**

## In this Issue

---



**Message from President's Desk**

**Electric Vehicle – An update**

**Events held – April 2024**

**Events planned – May 2024**

**Upcoming Events - 2024**

**New & Renewed Members – April 2024**

## Message From President's Desk



Dear Member,

Greetings from SSEM!

Over the past decade, India has witnessed a gradual but definitive shift towards electric vehicles. Factors such as increasing pollution levels, volatile fuel prices, and global commitments to combat climate change have accelerated the country's focus on sustainable transportation. Government policies and initiatives, including the Faster Adoption and Manufacturing of Hybrid and Electric Vehicles (FAME) scheme, have played a pivotal role in laying the groundwork for the growth of the electric vehicle industry.

The Indian electric vehicle market has experienced substantial growth, spurred by a burgeoning consumer interest in eco-friendly alternatives. Two-wheeler and three-wheeler segments have been particularly prominent, with electric scooters and rickshaws gaining popularity in urban centers. The growing awareness of environmental issues and the economic advantages associated with electric vehicles have fueled this upward trajectory, with industry analysts forecasting continued expansion in the coming years.

The Indian government has been proactive in promoting the adoption of electric vehicles through a series of policies and incentives. Subsidies, tax benefits, and research grants are being provided to manufacturers and consumers to encourage the production and purchase of electric vehicles. Additionally, regulatory frameworks are being devised to ensure that a certain percentage of vehicles sold are electric, fostering a conducive environment for industry growth.

The Tamil Nadu government plans to develop a new auto cluster from scratch at Thoothukudi in Southern Tamil Nadu. Chennai is a very big cluster in the automotive sector. Tamil Nadu is also focusing on Coimbatore and Hosur. VinFast and many other industries ready to make investments and developing Thoothukudi to be another auto cluster. Vietnam-based electric vehicle maker VinFast is establishing a new integrated EV manufacturing unit at Thoothukudi where the company has planned to invest ₹4000 crore, spread over 5 years. The upcoming EV unit is expected to have an annual capacity of up to 150,000 units.

With best regards,

**V Senthil Kumar**



## Electric Vehicle – An Update

### **INDIA EMERGES AS GLOBAL LEADER IN ELECTRIC THREE-WHEELER MARKET, SURPASSES CHINA IN SALES:**

"India overtook China in 2023 to become the biggest market for electric 3Ws, with over 580,000 sales," the IEA stated, reflecting India's rapid adoption of electric vehicles in response to increasing domestic demand and supportive government policies.

New Delhi: India has surpassed China to become the world's largest market for electric three-wheelers, recording over 580,000 sales in 2023, the International Energy Agency (IEA) reported.



This development highlights India's growing influence in the global electric vehicle (EV) market, which continues to expand despite economic challenges. According to the IEA, global electric car sales are projected to reach about 17 million in 2024, capturing more than a fifth of the total car market share.

Read more at:

<https://energy.economictimes.indiatimes.com/news/power/india-emerges-as-global-leader-in-electric-three-wheeler-market-surpasses-china-in-sales/109609109>



## Electric Vehicle – An Update

### **BATTERY RECYCLING SHATTERS THE MYTH OF EV WASTE:**

Making a battery for an electric vehicle typically requires mining hundreds of pounds of hard-to-extract minerals. That's put a spotlight on batteries' heavy environmental toll, at least upfront. But the latest advances in battery recycling, including by leading US battery recycler Redwood Materials are shrinking EVs' footprint.

Traditional methods of ripping materials out of the ground and refining them for battery backs requires enormous amounts of energy. As a result, the initial carbon footprint of an EV is higher than a comparable internal combustion engine vehicle. Those upfront emissions are paid back over time with the superior efficiency of electric motors, leading to a 70% reduction in total emissions over the average life of the vehicle.



The Stanford report found that recycling batteries used 79% less energy and resulted in 55% fewer CO2 emissions compared to traditional refining. Additional savings come from keeping the recycling supply chain local compared to the globe-circling refining process for freshly extracted minerals. Closing the loop brings the total CO2 savings to 80%.

Read more at:

[https://economictimes.indiatimes.com/industry/renewables/battery-recycling-shatters-the-myth-of-ev-waste/articleshow/109572937.cms?utm\\_source=contentofinterest&utm\\_medium=ext&utm\\_campaign=cppst](https://economictimes.indiatimes.com/industry/renewables/battery-recycling-shatters-the-myth-of-ev-waste/articleshow/109572937.cms?utm_source=contentofinterest&utm_medium=ext&utm_campaign=cppst)

## Events/Activities held : April, 2024

**Session on “Key Components of EV” held on 05.04.2024 at Sri Ramakrishna Engineering College, Coimbatore. Ms. Ramya Baskaran , Product Head, Steam-A Pvt Ltd addressed the students. More than 180 students from various colleges participated & Benefited.**





Events/Activities held : April, 2024

## National Electric Bike Challenge (NEBC), 2024

**NEBC 2024 (NEBC) conducted by Kumaraguru Institutions in association with SSEM, Mr. Vishwanath Surendran, CEO, Steam A Pvt. Ltd was the Chief Guest and addressed the students. More than 100 students from various colleges participated and Benefited.**





### Events/Activities held : April, 2024

**Webinar with ARAI on “New Policies & Amendments Recently Announced by the Government for EV” held on 22<sup>nd</sup> April 2024.**

**Mr. Santhosh N Gutte, Deputy Manager, ARAI, Pune addressed the participants.**

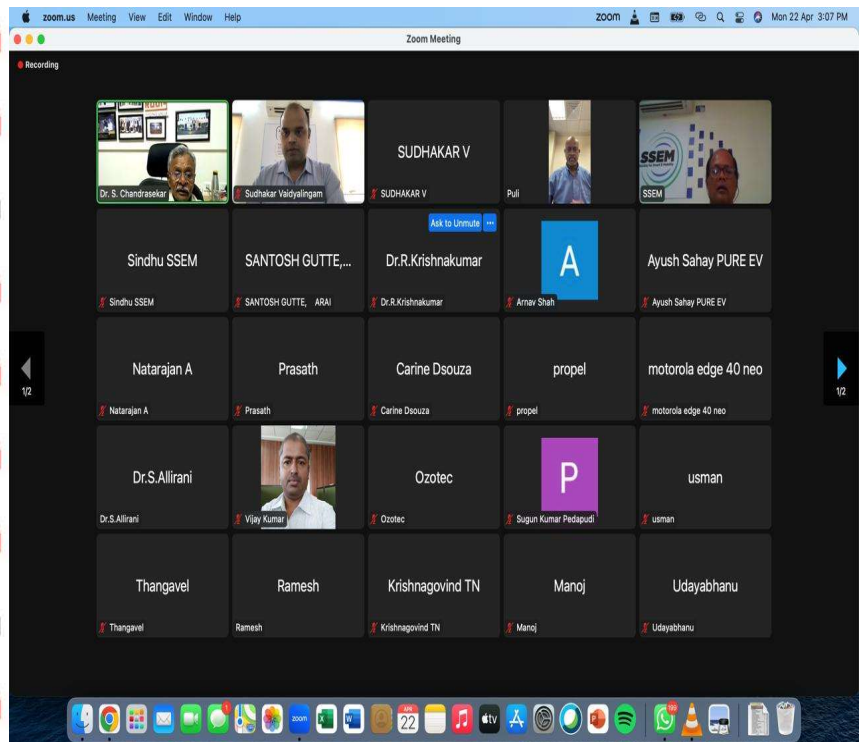
**More than 44 Members / Non Members participated and Benefited.**

Close Participants (44)

Search

- SS Sindhu SSEM (Host, me)
- SG SANTOSH GUTTE, ARAI (Co-host)
- SSEM SSEM (Co-host)
- DS Dr. S. Chandrasekar (Co-host)
- P Puli (Co-host)
- SA SASIKUMAR A (Co-host)
- SV SUDHAKAR V (Co-host)
- Sudhakar Vaidyalingam (Co-host)
- A- Ajish - Hykon
- A AravinthSaravanan
- A Arnav Shah
- AS Ayush Sahay PURE EV
- R Boopathi

Invite Mute all ...



**Below is the link of full recording of the Webinar.**

[https://drive.google.com/file/d/14oiQiv7DI\\_5J7T7j49v1RDG\\_AmK7zxCx/view?usp=sharing](https://drive.google.com/file/d/14oiQiv7DI_5J7T7j49v1RDG_AmK7zxCx/view?usp=sharing)

## Events/Activities held : April, 2024

**Lecture on “Components & Systems for EV” at KPR Institute of Engg & Technology on 24<sup>th</sup> April 2024 (IEEE Power & Energy Society Day).  
Mr. C. Pratheep, Design Lead, Steam - A Pvt Ltd, Coimbatore addressed the students.  
More than 50 students participated & benefited.**





## Events/Activities held : April, 2024

**Industrial visit to M/s Ozotec Automobiles Pvt Ltd and M/s AR4 Tech Pvt Ltd by Sri Ramakrishna Engineering College, Coimbatore students on 25th April 2024. 24 students and 2 Faculty members visited & benefited.**

### Ozotec Automobiles Pvt Ltd



### AR4 Tech Pvt Ltd





## Member's Feedback

### Received from

Dr. S. Allirani, Associate Professor &  
Head Incharge, Department of EEE, SREC

**Sri Ramakrishna Engineering College (SREC) Students / Faculty members  
visited M/s Ozotec Automobile Private Limited &  
M/s AR4 Tech Private Limited**

**Reflecting on an Inspiring Industrial Visit: Exploring Electric Mobility at Ozotec  
Automobile Private Limited and AR4 Tech Private Limited**

The Department of Electrical and Electronics Engineering, Sri Ramakrishna Engineering College thrilled to share that a team of 24 Electric Vehicle Specialization students and 2 Faculty members visited **Ozotec Automobile Private Limited, Somanur** and **AR4 Tech Private Limited**, Masagoundan Chettipalayam, Annur on 25.04.2024. A heartfelt thanks to **Society for Smart E- Mobility (SSEM)** for hosting the visit and for all kinds of arrangements. Our sincere gratitude to **Ozotec Automobile Private Limited and AR4 Tech Private Limited** for their excellent training and support.

### **Key Takeaways from Ozotec Automobile Private Limited**

The students learned the sleek designs of electric two-wheelers to the advanced engineering behind their propulsion systems. The students witnessed the enlightening manufacturing process of **Flio and Bheem variants** of Ozotec vehicles. Interacting with the Experts and passionate individuals behind the scenes was a highlight of the visit. The dedication to harnessing the power of electric mobility to create a more sustainable world is both commendable and inspiring.

### **Key Takeaways from AR4 Tech Private Limited**

The visit provided valuable insights into the sustainable practices and principles embedded within the retrofitment process. Interacting with the skilled engineers and technicians behind the retrofitment process was a highlight of the visit. Their passion for electric mobility and their expertise in transforming vehicles were palpable. The students understood the significant role of electric vehicle retrofitment in reducing carbon emissions and combating climate change.

Let's continue to support and champion initiatives that pave the way towards a cleaner, greener, and more sustainable future.

## Events/Activities Planned: May 2024

---



**Webinar with Global Automotive Research Centre (GARC) on EV**



**Industrial Visits**

**Visit to EV Industries**

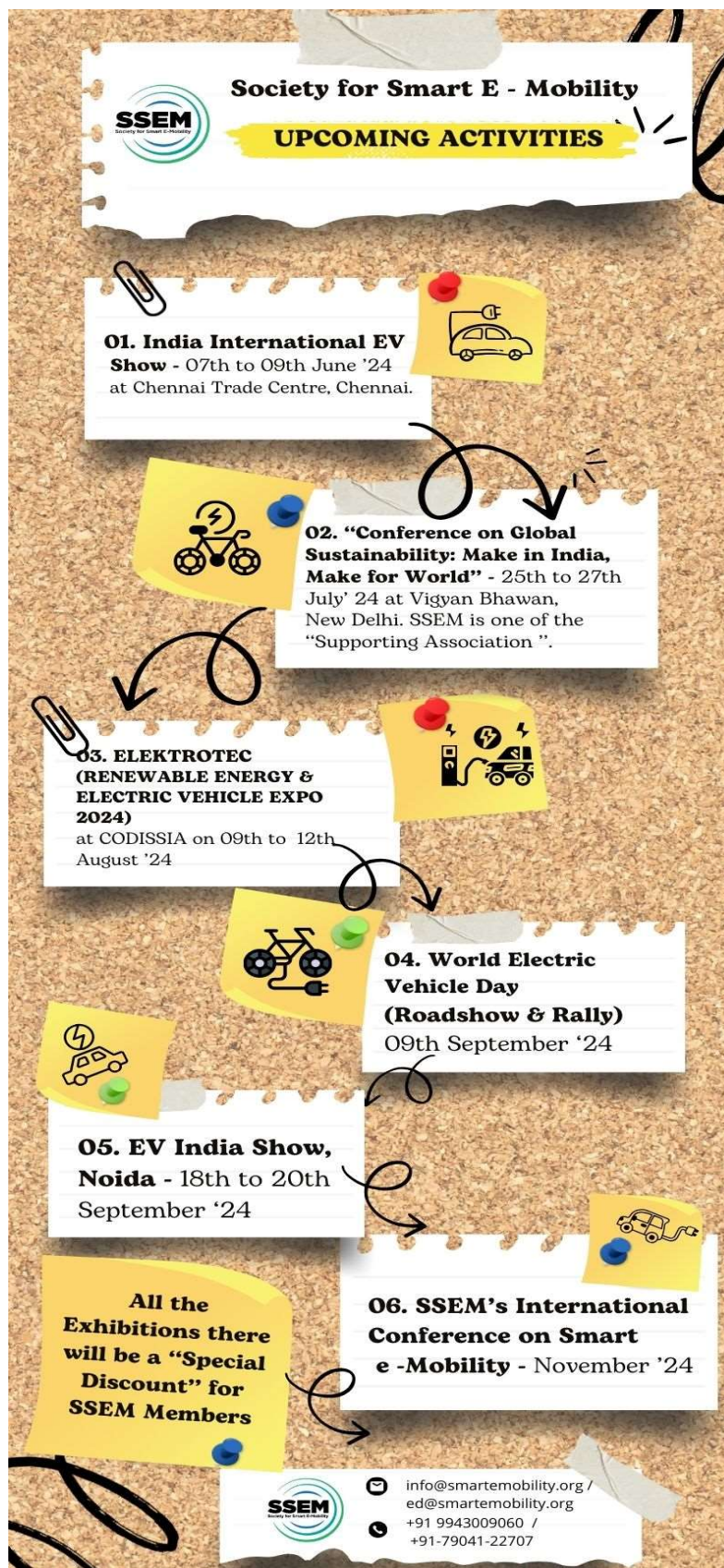


**Webinar on EV Safety**

**Kindly block your diary – 20<sup>th</sup> June 2024**

**Conference on “Electric Vehicles and Allied Industries” on 20<sup>th</sup> June 2024  
at Hotel Kiscor Grands, Tatabad, Coimbatore.,  
More details will follow shortly.**

### Other Upcoming Events - 2024



**Society for Smart E - Mobility**  
**UPCOMING ACTIVITIES**

**01. India International EV Show** - 07th to 09th June '24  
at Chennai Trade Centre, Chennai.

**02. "Conference on Global Sustainability: Make in India, Make for World"** - 25th to 27th July '24 at Vigyan Bhawan, New Delhi. SSEM is one of the "Supporting Association".

**03. ELEKTROTEC (RENEWABLE ENERGY & ELECTRIC VEHICLE EXPO 2024)**  
at CODISSIA on 09th to 12th August '24

**04. World Electric Vehicle Day (Roadshow & Rally)**  
09th September '24

**05. EV India Show, Noida** - 18th to 20th September '24

**06. SSEM's International Conference on Smart e -Mobility** - November '24

All the Exhibitions there will be a "Special Discount" for SSEM Members

**SSEM**  
info@smartemobility.org /  
ed@smartemobility.org  
+91 9943009060 /  
+91-79041-22707



## New & Renewed Members of SSEM

---



1. **Dr. S. Balamuraly, Professional , Coimbatore.**
2. **MAHLE Electric Drives India Pvt. Ltd**
3. **Mr.Sridhar, Professional , Coimbatore.**

**Total No. of. Members enrolled during April -2024 – 03 Nos.**

## New & Renewed Members of SSEM

### New / Renewed Annual Members - Individual

1. **Dr. S. Balamuraly, Professional , Coimbatore.**
2. **Mr. Sridhar, Professional , Coimbatore.**

### Renewed - Annual Member Industry

#### **3. MAHLE Electric Drives India Pvt. Ltd**



MAHLE innovative strength in the areas of engine systems and components, filtration, electrics / electronics and thermal management, They offer customers a broad product portfolio. Their areas of expertise are the powertrain and air conditioning technology and all issues associated with them - for drive units in internal combustion engines as well as for electro-mobility purposes. Every second car produced worldwide drives with MAHLE components.

- 99% less dust, pollen and mites in vehicles thanks to MAHLE cabin filters
- 50 percent more range for electric cars thanks to the MAHLE thermo electric heat pump
- 4,000 kilometers of Formula 1 engines thanks to MAHLE components
- 80,000 starts are no problem for a tractor engine with an electric starter from MAHLE.
- MAHLE heat exchangers weighing just 600g and the size of an A4 sheet of paper, with such high efficiency that they could heat six family houses in mid-winter.



## Society for Smart E-Mobility - SSEM

For more details, you may reach us @

RKG Industrial Estate

Ganapathy

Coimbatore - 641006

+91 9943009060 / +91 9791709828

[ed@smartEmobility.org](mailto:ed@smartEmobility.org) / [info@smartEmobility.org](mailto:info@smartEmobility.org)

---

Website - [www.smartEmobility.org](http://www.smartEmobility.org)

Facebook - [www.facebook.com/SSEMOBILITY/](https://www.facebook.com/SSEMOBILITY/)

LinkedIn - <https://www.linkedin.com/company/society-for-smart-e-mobility/>

Instagram - [www.instagram.com/ssemobility/?hl=en](https://www.instagram.com/ssemobility/?hl=en)

Source:

<https://autoevtimes.com/indian-electric-vehicle-industry-in-2024/>

<https://www.thehindubusinessline.com/info-tech/tamil-nadu-govt-plans-4th-auto-cluster-in-thoothukudi-to-set-up-2-more-centres-for-ev-industry/article68028484.ece>