

E - NEWSLETTER

Society for Smart E-Mobility



JULY - 2026

In This Issue



Message from President's Desk

3

Electric Vehicle - An Update

4

Events Held – July, 2026

6

Events Planned 2026

12

Members Enrolled – July, 2026

14

Message From President's Desk



Dear Members,

Greetings from SSEM.

India's electric vehicle (EV) market has grown nearly 14-fold since financial year (FY) 2020 in areas including electric two-wheelers (E2Ws), electric three-wheelers (E3Ws), buses, and passenger vehicles. This rapid growth is transforming the value chain in India's automotive sector, with value shifting from traditional metal-based components to sophisticated electronic systems and advanced assemblies. While this presents substantial opportunities for the sector, it also introduces significant challenges that require strategic adaptation.

Localisation levels have also improved across EV segments, with many original equipment manufacturers (OEMs) now undertaking domestic assembly and local sourcing for structural and mechanical components. However, a deeper assessment of the supply chain reveals that localisation remains uneven at the component level, particularly for systems unique to EVs such as motors, battery packs, power electronics, and charging systems.

Recent policy measures and industrial investments indicate growing domestic capability in key EV components. Sustaining this momentum requires a stronger focus on indigenous research and development (R&D) into critical raw materials. The next phase of growth will be defined by India's ability to secure the upstream ecosystem for the core technologies that power modern EVs.

Localisation outcomes vary significantly across EV components, with categories aligned to India's established automotive manufacturing strengths such as chassis systems, structural parts, wiring harnesses, and thermal systems achieving high levels of domestic manufacturing. In contrast, components dependent on advanced electronics, specialised materials, and high-precision processes continue to record low localisation levels due to reliance on imported subcomponents, limiting India's share of component value despite increasing local manufacturing activity. Looking at it from a different perspective of existing players engaged in Advanced Electronics and High Precision processes, this is an excellent opportunity for them and the right time to step in.

Tamil Nadu Government has decided to accelerate the development of Electric Vehicle (EV) charging infrastructure across the state as part of its plan to establish 20,000 public EV charging stations by 2031 under the 'Vetri Thamizhagam' vision.

This initiative aims to promote the use of electric vehicles, attract private investment, reduce the cost of setting up charging stations and create world-class charging infrastructure, making Tamil Nadu a leading state in sustainable transportation.

The State Government has decided to permit the installation of EV sub-meters for charging facilities within the sanctioned load of existing High Tension (HT) and Extra High Tension (EHT) electricity connections. Under this arrangement, consumers will not need to obtain a separate electricity service connection. They will also be exempt from fixed or minimum monthly demand charges and will pay only energy charges under the EV tariff based on actual electricity consumption.

With best wishes!

V Senthil Kumar

Electric Vehicle – An Update

Ministry of Heavy Industries

PM E-DRIVE SCHEME AND PROMOTION OF ELECTRIC MOBILITY

- (a) the salient features, objectives, financial outlay and present status of the PM Electric Drive Revolution in Innovative Vehicle Enhancement (PM E-DRIVE) Scheme, including the categories of electric vehicles covered and the incentives provided thereunder;
- (b) the details of incentives released and the number of beneficiaries, EV supported, charging stations sanctioned and e-buses deployed under the scheme since its launch, State-wise;
- (c) whether the Government has undertaken any assessment of the impact of the scheme on accelerating electric vehicle adoption, reducing fossil fuel consumption, lowering vehicular emissions and promoting domestic manufacturing under the 'Make in India' initiative and if so, the details thereof;
- (d) the details of measures taken to strengthen charging infrastructure, battery manufacturing and recycling ecosystems under the scheme; and
- (e) whether the Government proposes to extend special incentives for Tier-II and Tier-III cities and aspirational regions to promote wider adoption of electric mobility and support the vision of Viksit Bharat @2047?

Read more at :

<http://pib.gov.in/PressReleasePage.aspx?PRID=2290696>



Electric Vehicle – An Update

Hyundai Motor India on Thursday said it will make Tamil Nadu its flagship electric vehicle (EV) hub in the country, while increasing localisation levels and expanding investments in manufacturing, supply chains and workforce development.

The automaker said it plans to launch two new models from its Chennai plant this year, including its first mass-market dedicated EV. Hyundai has already set up a battery sub-assembly facility in Tamil Nadu and is working to localise key EV components, including power electronics.

“Alongside advancing EV localisation, we are equally focused on developing a future-ready skilled workforce, enabling talent to support future automotive technologies,” said Tarun Garg, MD and; CEO – HMIL.

Hyundai aims to increase localisation across its EV and internal combustion engine (ICE) operations from 82 per cent to 90 per cent over the next five to six years.

The company also plans to increase sourcing from Tamil Nadu-based suppliers by about ₹4,000 crore, a move expected to create around 2,000 jobs.

The company, in partnership with the Tamil Nadu government, will launch a skill development programme focused on EVs, hydrogen mobility, robotics, automation and AI-enabled manufacturing. The initiative is scheduled to begin operations in December 2027.

The carmaker reiterated its commitment to invest more than ₹26,000 crore in Tamil Nadu between 2023 and 2032, as part of its broader expansion plans aimed at strengthening the state's position as a major automotive and EV manufacturing hub.

Read more at:<https://l1nq.com/ox5416r>

Events held – July 2026

“Powering the Future : Practical Training in EV Battery, BMS, VCU, BLDC Motor & 4-Wheel Drive” held on 6-10 July organised by Sri Ramakrishna Engineering College – SSEM one of the “Supporting Partner”.



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**Centre of Excellence for E-Mobility
Department of Electrical and Electronics Engineering**



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ABOUT THE PROGRAMME

The internship program offering hands-on training in designing and integrating key EV components. It covers battery technology, BMS, VCU, BLDC Motor and 4-wheel drive systems, along with simulations in MATLAB/Simulink and real-world testing. Participants will learn industry-relevant skills through theoretical sessions and practical training. The program is ideal for students, professionals, and EV enthusiasts aiming to excel in the electric vehicle domain. A certification is awarded upon successful completion.

LEARNING OUTCOMES

- Gain in-depth knowledge of batteries, Battery Management Systems (BMS), Vehicle Control Units (VCU), BLDC Motor and 4-wheel drive systems.
- Master simulation techniques for modelling and analyzing EV components and systems (MATLAB & ANSYS EM).
- Understand the chemistry, structure, and performance metrics of EV batteries.
- Understand drive modes and learn how to develop and test VCU functionalities.
- Analyze the Battery Management System (BMS) for real-time monitoring and safety.

Convenor

Dr. S.Allirani, HoD-EEE

Coordinators

Dr.R.Krishnakumar, AP (SI.G)/EEE
Mrs.R.K.Ragavapriya, AP (SI.G)/EEE
Dr.M.Chindamani, AP (SI.G)/EEE
Dr.H.Vidhya, AP (SI.G)/EEE
Mr.B.Sridhar, AP (SI.G)/EEE

- Confirmation of Participation on First Come First Serve basis
- Accommodation based on payment basis

Last date of Registration

30.06.2026

For further details, please contact:

Dr.R.Krishnakumar, AP (SI.G)/EEE
E-mail: krishnakumar.ramasamy@srec.ac.in
Mobile: 9940716400



Supporting Partner



QR Code for Registration

**Registration fees –INR 1,000/-
Timings: 9.00 am to 5.00 pm**

**Dates to remember
July 6th – 10th, 2026**



**Mahindra e2o Electric 4-wheeler
tear down model**



Cell demonstrator



BMS Test Rig



VCU Rig



BLDC Motor Test Bench

Events held – July 2026

Coinciding with the training \$SEM organised an Industrial visit to Eco Dynaamic Electric Vehicles Pvt Ltd., Coimbatore for Sri Ramakrishna Engineering College students on 10 July 2026



Events held – July 2026

SSEM organised a Webinar on “Next-Generation Electrical Vehicle Architectures: From Distributed Systems to Integrated Drive Platforms” on 29 July 2026 . Mr.Prasanthkumar P, Chief Technical Consultant, Haritha Mobility Solutions addressed the participants



Webinar On

**“Next-Generation Electric Vehicle Architectures :
From Distributed Systems to Integrated Drive Platforms”**



29 July 2026 Wednesday

3:00 Pm to 4:30 Pm

Speaker

Mr Prasanthkumar P

**Chief Technical Consultant
Haritha Mobility Solutions**



Mr.Prasanthkumar Palani is an EV Technical Consultant with 10+ years of experience in EV product design, electric bus engineering, and high-voltage safety. He advises OEMs, government agencies, and global organizations on EV safety, technical due diligence, and capacity building. His work focuses on delivering safe, reliable, and future-ready electric mobility solutions.

Register now

Registration Link : <https://forms.gle/F7CVBLe8MtdeGoLG9>

Note : E-Certificate will be provided to the participants

Delegate Fee (Per Participant) :

SSEM Members - No Delegate Fee

Non Members - Industry / Institution : Rs.500/- per participant

Students : Rs.300/- per participant



Society for Smart E-Mobility (SSEM)

Contact us : 8825896299

info@smartemobility.org / www.smartemobility.org

Events held – July 2026

Few snaps of the Webinar held on 29th July 2026



Dr.S.U.Prabha, EC Member SSEM & Principal Dr.NGP Institute of Technology delivered the Welcome address



Mr.Prasanthkumar P, EC Member SSEM & Chief Consultant, Haritha Mobility Solutions addressed the participants



SSEM organised Webinar on “Next-Generation Electrical Vehicle Architectures: From Distributed Systems to Integrated Drive Platforms”. 100+ Members participated and benefited

Events held – July 2026

8th Edition – GREEN VEHICLE EXPO held on 29-30-31 July 2026 – BIEC, Bangalore International Exhibition Center, INDIA. SSEM one of the Supporting Association Partner in this event

Supporting Association Partner:



**Society for
Smart E-Mobility**

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29-30-31 JULY 2026



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Events held – July & August 2026

**“EV COMPONENTS SHOW” held on 31 July – 2 August 2026,
Chennai Trade Centre, Chennai -
SSEM one of the Supporting Association**



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31 July – 2 August, Chennai Trade Centre

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Events Planned – 2026

Electric Vehicle WORLD Exhibition scheduled on 30.07.26 & 01.08.26 at Hyderabad Expo Centre, Hitex City at Hyderabad. SSEM one of the “Supporting Partner”.

“EV COMPONENTS SHOW” 31 July – 2 August 2026 at Chennai Trader Centre, Chennai. SSEM one of the “Supporting Association”

“RE VEHICLE EXPO 2026 @ CODISSIA TRADE FAIR Complex, Coimbatore on 21 – 24 August 2026. SSEM one of the “Supporting Partner”

Upcoming Events September 2026

**“WORLD ELECTRIC VEHICLE DAY”
“Road Show and Rally” on 9 September 2026**

Events Planned August 2026

ELECTROTEC-2026 “Renewable Energy & Electric Vehicle Expo 2026” 21-24 August, 2026. Elektrotec 2026 is organised by CODISSIA at Codissia Trade Fair Complex, Coimbatore - SSEM one of the “Supporting Association”.



RE VEHICLE EXPO 2026

(An Event of CODISSIA Intec Technology Centre)

Organised by



21st- 24th August 2026



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Members Enrolled – July, 2026

**SSEM WELCOMES
NEW / RENEWED
MEMBERS ENROLLED
IN JULY 2026**



- ❖ **Haritha Mobility Solutions**
– **Annual Member (Industry)**

- ❖ **Redon Lithium Industries LLP**
– **Annual Member (Industry)**

Members Enrolled – July, 2026

The Haritha Mobility logo is located on the left side of the slide. It features the word "HARITHA" in a bold, blue, sans-serif font, with the word "MOBILITY" in a smaller, orange, sans-serif font below it. The text is enclosed within a blue rectangular border.

Haritha Mobility Solutions

At Haritha Mobility Solutions, We are committed to be a partner in building a sustainable transport Solution for the Future.

Haritha Mobility Solutions is a Team of highly Motivated Professionals with Expertise in Various domain in the Automotive Engineering like Automotive Homologation and Certification, Noise Vibration and Harshness, Powertrain Design, Automotive Electronics, Model Based Design for Automotive Applications etc.,

Members Enrolled – July, 2026



REDON LITHIUM Industries LLP

Redon Lithium Industries established in 2022, Redon Lithium Industries LLP is a leading manufacturer, wholesaler, and retailer specializing in a wide range of cutting-edge energy solutions. We focus on producing high-quality lithium-ion batteries for electric vehicles, e-scooters, e-cycles, electric rickshaws, and more. Our innovative products are engineered to drive the sustainable transportation revolution, providing reliable power solutions for electric bikes, electric bicycles, and telecom tubular batteries.

At Redon Lithium Industries, we are committed to delivering the most advanced and durable batteries, alongside a suite of business growth solutions tailored to meet the ever-evolving needs of our customers in the electric vehicle and renewable energy sectors. With a focus on innovation and quality, we strive to be a key enabler in the global transition to clean, green energy.

Under the visionary leadership of Rajesh Garg, our CEO, Redon Lithium Industries LLP has grown rapidly since its inception. With a strong background in the energy and technology sectors, Rajesh's experience and forward-thinking approach drive the company's mission to create sustainable and efficient energy solutions. His commitment to excellence and customer satisfaction ensures that we remain at the forefront of the lithium-ion battery industry.



Society for Smart E-Mobility – SSEM

For more details, you may reach us @

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Instagram - www.instagram.com/ssemobility/?hl=en

Sources :

<https://jmkresearch.com/electric-vehicles-published-reports/beyond-battery-packs-localisation-in-manufacturing-ev-components/>

<https://www.newindianexpress.com/states/tamil-nadu/2026/Jul/15/tn-targets-20000-charging-stations-by-2031-in-big-ev-push>