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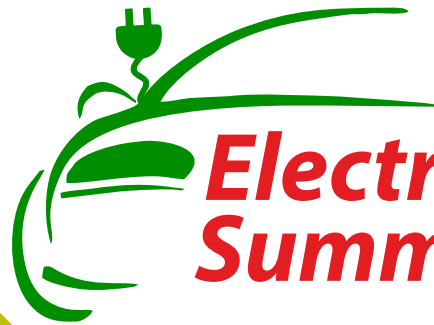
Department of Heavy Industry  
Ministry of Heavy Industries & Public Enterprises  
Government of India



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indiacsr  
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Sustainability &  
Responsibility

India needs an environment where global majors in EV space and domestic producers can all gainfully invest, innovate and rapidly scale-up.



# Electric Vehicle Summit

green mobility  
vision 2030

INNOVATION | SUSTAINABILITY | 2030 ROAD MAP

Friday, January 19, 2018  
PHD House, New Delhi



To initiate and move forward towards low-carbon transport ecosystem, the Summit is designed as a national forum for manufactures, visionary leaders as well as policy makers, innovators, researchers and strategists to bridge their collective strengths and exchange information, innovation and knowledge.

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MOTORINDIA

# OVERVIEW ON INDIA'S 2030 VISION ON ELECTRIC VEHICLE

India led by visionary Prime Minister Shri Narendra Modi has a vision for converting all vehicles in India to electric vehicles by 2030.

Automotive Mission Plan has been finalised jointly by Government of India and Indian Automotive Industry. The vision of AMP 2026 is "By 2026, the Indian Automotive industry will be among the top three of the world in engineering, manufacture and export of vehicles and components, and will encompass safe, efficient and environment friendly conditions for affordable mobility of people and transportation of goods in India comparable with global standards growing in value to over 12% of India's GDP and generating an additional 65 million jobs."

Auto sector has become one of the largest in the world due to the competitive market. The turnover of the sector is equivalent to 7.1% as per the Review Report of Automotive Mission Plan 2016. Govt. approved the National Mission on Electric Mobility in 2011 and subsequently National Electric Mobility Mission Plan (NEMMP) 2020 was unveiled in 2013. As part of the mission, Deptt. of Heavy Industry has formulated a scheme - FAME – India (Faster Adoption and Manufacturing of (Hybrid &) Electric Vehicles in India) for implementation with effect from 1st April 2015, with the objective to support market development and Manufacturing eco-system.

Scheme is proposed to be implemented over a period of 6 years, till 2020, wherein it is intended to support the market development and its manufacturing eco-system. The scheme has 4 focus areas i.e. Technology Development, Demand Creation, Pilot Projects and Charging Infrastructure.

Ministry of Road Transport & Highways has issued notification No. GSR 643(E) dated 19.08.2015 vide in which the mass emission standards for Bharat Stage IV shall come in to force all over the country in respect of four wheeled vehicles manufactured on or after the 1st April, 2017. India will evolve from Bharat Stage (BS) IV emission norms to BS VI by 2020.

Electric car uses alternate fuel electricity instead of petrol or diesel. There is a growing acceptance for hybrid and electric cars and manufacturers are entering this niche segment. Electric vehicles has a potential to save fossil fuels worth about \$100 bn annually, which in turn would save foreign exchange, prevent the dependence on imported petroleum products and reduce the pollution in cities.

- India spent Rs 4.7 Lakh Crores in 2016-17 in importing crude oil. Electric Vehicles will help lower the bill.
- The National Electric Mobility Mission Plan (NEMMP) targets seven million electric and hybrid vehicles by 2020.

## OBJECTIVES

India, being one of the largest and booming economy, this is high time to exchange the ideas on how India automotive sector can contribute to the India's vision and priority of replacing conventional vehicle to electric vehicle by the year 2030. The forum will bring all key stakeholders of the emerging electric vehicle market to discuss and deliberate to pertinent issues and concerns. It will be a unique forum to discuss challenges and opportunities of emerging electric vehicle market too.

The EV summit is also aligned to the UN Sustainable Development Goal of taking actions in providing clean energy and to the Paris Declaration on Electro-Mobility and Climate Change & Call to Action that calls for a commitment as stated, "With varying mandates, capabilities, and circumstances, we commit to advance our work individually as well as collectively wherever possible to increase electro-mobility to levels compatible with a less-than 2-degree pathway."

## THE SUMMIT

**The premier conference for electric and hybrid vehicle technology and innovation**

The Summit is the forum where visionary leaders and innovators of the automotive sector will share their views, thoughts and knowledge as well as their agenda on Electric Vehicles. Forum provides comprehensive overview on the electric automobile industry in India. This would also provide useful reference for drawing up new plans, reviewing trends and also in evolving marketing tools and strategies.

Delegates will interact with like-minded firms and stakeholders and discuss important aspects of electric car and bike, commercial vehicle opportunities and trends etc. The summit allows companies to optimize their presence among stakeholders.

The Summit will attract technical leaders and executives from Indian and global auto companies to reveal what is driving the demand and shaping novel technologies and new innovations at the cutting edge.

## KEY TOPICS

- Low-carbon transport system
- Technology and Innovation for Mobility
- Innovation and Promotion Policy for Electric Vehicle Development
- Affordability & Durability of Electric Vehicles
- Technology and Innovation for Mobility
- Energy Supply & Storage Systems
- Development of Charging Infrastructure
- Make in India & Skill India
- Incentives and Investment Promotion for Electric Vehicle
- Future Trends and Market of Electric Vehicle
- Roads and Support Infrastructure Development
- Govt. Subsidies for Electric Vehicles to the Customers



## SPEAKERS

The Summit aims to bring together automotive visionary leaders, innovators, scientists, researchers to exchange and share their experiences and research results on all aspects of Hybrid and Electric Vehicles in India. It also provides a premier interdisciplinary platform for researchers, practitioners and educators to present and discuss the most recent innovations, trends, and concerns as well as practical challenges encountered and solutions adopted in the fields of Hybrid and Electric Vehicles in Indian scenario.

## SCOPE

The focused wide-ranging of sessions cover National Mission on Electric Mobility, Faster Adoption and Manufacturing of (Hybrid & Electric Vehicles in India, Automotive Mission Plan 2026, Safety Standards, BS-IV Norms For Vehicles, technology transfer from conventional to Electric Vehicle, technologies for improving efficiency and performance of Hybrid/ Electric Vehicle/s, electric and hybrid vehicle development, infrastructure development, servicing and more.

## WHO SHOULD ATTEND?

The Summit will bring together the Indian and global H /EV manufacturing industry in the automotive hub of India. Summit will be attended by automotive industry leaders, Govt. leaders, policy makers, business people, innovators, technicians, consultants, and research and development professionals, all looking for greater efficiency, safety, and low carbon vehicle.

- Access prospective customers, partners and existing clients
- Network with representatives from the entire H/EV manufacturing supply chain
- Stay informed on the latest trends

## PROGRAM

09 AM – 10 AM :	Registration and Tea
10 AM – 11:30 AM:	<b>Keynote Session - EV Policy, Legislations, Emerging Issues and Opportunities</b>
11:30 AM – 12 Noon:	<b>Technical Session 1 Fully Electric or Hybrid as Mid Transition</b>
12 Noon – 12.15 PM:	Networking Tea
12.15 PM – 1.15 PM:	<b>Technical Session 2 Auto Ancillary Stakes in EV Eco-system</b>
1.15 PM – 2 PM:	Networking Lunch
2 PM- 3 PM:	<b>Technical Session 3 Smart Grid, Charging Infrastructure and Vehicle to Grid (V2G)</b>
3 PM – 4 PM:	<b>Technical Session 4 New Battery Technologies, Energy Storage, Potential and Forecasts</b>
4.15 PM – 4.30 PM:	Networking Tea
4.30 PM – 5.30 PM:	<b>Valedictory Session International Experience and Way Forward</b>
5.30 PM onwards:	Networking Cocktails

## OPENING AND LEADERSHIP SESSIONS



The Summit features opening ceremony, leadership talk and panel sessions brings Govt. authorities, visionary automotive leaders and policy makers with the unique sessions of global experts sharing their road map and experiences on the electric vehicle technology from vision to real actions.

## PANEL DISCUSSIONS

The Summit also features technical session and panel discussions and gives an opportunity to showcase innovations in the area of technology and innovation on the whole electric vehicles eco-system, components, systems, standards and infrastructures related to efficient power conversion system for all types of electrified vehicles, including battery electric vehicles, hybrid electric vehicles, plug-in hybrid electric vehicles and fuel cell electric vehicles which consists of topics in the following:

### Call for Speakers for Technical Sessions:

Speakers will have 20 minutes to present their thoughts, works and innovations

- Hybrid and Electric Vehicles for India
- International standards for EVs and their impact on EV deployment, R&D and manufacturing in India
- EV system architecture concepts for passenger, service and utility vehicles
- Innovations in EV component design
- EV motor drives and controllers
- Design for EV maintainability
- EV high voltage wiring
- Heating and cooling systems for EVs
- Innovations in EV energy storage solutions (e.g. battery chemistry, ultra capacitor, fuel cell, battery management system)
- EV systems modeling, simulation and testing
- AC and DC conductive charging, wireless charging, smart charging and fast charging
- Power grid and renewable energy resource interfacing for EV mass deployment
- Design for manufacturing for EV mass production
- EV fleet and infrastructure asset management
- Information Technology and Communication services for the EV ecosystem
- Trends in EV deployment, supply chain and manufacturing in India
- EV-related educational programs for engineers, legislators and the public





PHD Chamber of Commerce & Industry, a leading Industry Chamber of India, ever since its inception in 1905, has been an active participant in the India Growth Story through its Advocacy Role for the Policy Makers and Regulators of the Country. Regular interactions, Seminars, Conference and Conclaves allow healthy and constructive discussions between the Government, Industry and International Agencies bringing out the Vitals for Growth. As a true representative of the Industry with a large membership base of 48000 direct and indirect members, PHD Chamber has forged ahead leveraging its legacy with the Industry knowledge across sectors (58 Industry verticals being covered through Expert Committees), a deep understanding of the Economy at large and the populace at the micro level.

At a Global level we have been working with the Embassies and High Commissions in India to bring in the International Best Practices and Business Opportunities.

PHD Chamber has special focus on seven thrust areas: Infrastructure, Housing, Health, Education & Skill Development, Agriculture & Agri-business, Industrial Development, Digital India



India CSR Group, one of the largest CSR & Sustainability Network, promotes the use of Electric Vehicle in India, which will lead reduction of road pollution and ultimately promote green mobility and low-carbon economy. India CSR believes that deployment and promotion of Electric Vehicle will also improve energy efficiency in mass transportation sector and reduce crude oil import pressure. The India CSR Group feels that there is an urgent need of promotion of research and innovation in the field of affordable and durable Electric Vehicle technologies in India to address the demand of large population and reduce the adverse environmental impact. Ultimately, these will strengthen and increase the competitiveness of India's Electric Vehicle eco-system and enhance the productivity of the people at large in the path of green economy.



Event Website: <http://evsummit.phdcci.in>



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/electricvehiclesummit

**For additional information, please contact:**

**Dr. Jatinder Singh**  
Director, PHD Chamber  
jatinder@phdcci.in | Mob: 9811448084

**Mr. Rusen Kumar**  
Director, India CSR Network  
e-mail: rusenk@indiacsr.in | Mob: 9981099555

