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Automotive Component
Manufacturers Association of India



Confederation of Indian Industry
125 Years - Since 1895

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CII **FUTURE**
M  **BILITY**
SHOW 2021

25 Feb – 3 Mar 2021, CII Hive Virtual Platform

DIGITAL EXHIBITION AND CONFERENCE



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Gearing Up for Next

Development of any nation is determined by how fast and efficiently it moves. Mobility plays a key role in unlocking the potential of India's future economy and people. Being the world's second largest population and fourth largest producer of vehicles, India now strives towards alternate options for a sustainable Future Mobility. Rigid rules, affordable battery prices and increasing consumer awareness are steering the adoption of electric vehicles and alternate fuel driven vehicles in India.

The Right Direction

The entire way people and goods travel from one point to another is changing, driven by a series of converging technological and social trends. A fundamental shift is happening from personally owned vehicles, towards a future-mobility system centred around driverless vehicles, shared mobility and more.

It will be clean for environmental benefits, shared to maximise asset efficiency, and connected to meet end-to-end user needs.

“

My vision for the future of mobility in India is based on 7 c's - Common, Connected, Convenient, Congestion-free, Charged, Clean and Cutting-edge

”

- Hon'ble Prime Minister of India



The India Opportunity - Green Signal by Government

Over the last two decades Government of India has taken important steps to transform the future of mobility in India. To attain the desired target of zero emission vehicles, government is playing on the front foot with several new initiatives:

- **National Automotive Testing and R&D Infrastructure Project (NATRiP)**, joining hands with a number of State Governments and Indian Automotive Industry to create a state of the art Testing, Validation and R&D infrastructure in the country.
- **Faster Adoption and Manufacturing of (Hybrid) and EVs in India (FAME)** Ministry of Heavy Industries has shortlisted 11 cities in the country for the introduction of EVs in their public transport systems under the FAME.
- Planning to set up incubation centers for startups working in EV space.
- **National Electric Mobility Mission Plan- 2020 (NEMMP)** Launched under the National Mission for Electric Mobility for the development of electric infrastructure.
- **The Electric Vehicle Policy 2019** Offers to waive off - road taxes and registration charges till 2024 and provides hefty subsidies on charging equipment.
- Private charging stations are permitted at residential places, and any charging station can get electric power from any company through open access protocols.
- **FASTag** a reloadable cashless tag which enables automatic deduction of toll charges presently operational at 180 toll plazas across country.





Future Mobility Show 2019: An insight into future mobility

The Future Mobility Show (FMS) 2019 organised by the Confederation of Indian Industry (CII) set the agenda for transformation of India's mobility sector by bringing all stakeholders on a single platform for the development of future-ready and environmentally sustainable mobility products and technologies. FMS 2019 has catalysed the dialogue on the options that India needs to look into both from the technology aspect and the fuel choice. The maiden edition of FMS saw global participation to provide useful insights into the global trends in future mobility.

FMS addressed three important issues of **clean and sustainable environment, energy security and job creation** in a very technology agnostic manner.



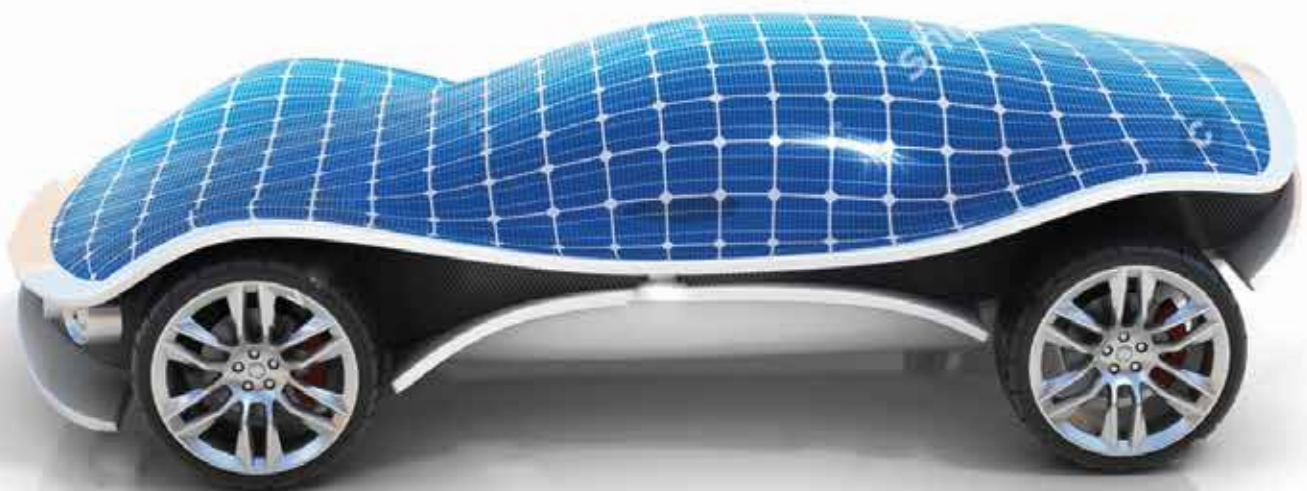
The Future Mobility Show 2021

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FMS 2021 will be taking the dialogue forward and exploring more options that India needs to look into both from the technology aspect and the fuel choice. It is an industry initiative to bring all stakeholders under one platform to find suitable solutions to achieve zero emission mobility in India for future, in line with the Government of India initiatives for this segment.

FMS 2021 will focus on the following elements of future mobility:

- **Infrastructure:** Public charging infrastructure, dedicated charged corridors, charging points in residential complexes, etc.
- **Solar energy:** To cater to the increasing power demands, solar-powered charging points can play a critical role, and this provides an opportunity for industry create new businesses and job opportunities within the country.
- **Alternate fuel:** Need to explore new pathways of energy. Renewable sources should be considered as a power source.
- **Increase in Manufacturing Units:** Dependency on export trade can be reduced if India starts manufacturing majority of the parts for its electric vehicles in India itself. It would also secure more new jobs in the country.
- **Government policies on taxation and other approvals:** Government may consider special tax benefits for manufacturers and consumers on emission free vehicles under the Future Mobility Scheme. Fast track on approval on construction and operating of charging stations and registration of electric, hybrid vehicles is another area where special attention of the government is required.



The Future is Charged

Future Mobility Show 2021 will showcase innovations and latest technology that can help industry and government work together to achieve the targets that are set for the country.

This would however require innovations, a policy regime that encourages access to latest technologies and a concerted effort by the Indian industry to achieve global competition through acquiring the necessary scale and using cutting edge technology.

A shared future

Another emerging trend that is and can transform future mobility is Shared Mobility. Shared mobility includes the movement of both people and goods. It leads to better fleet utilization—allowing more passengers and goods to travel in the same vehicle. By increasing occupancy of passenger vehicles, India has the potential to reduce vehicle kilometer demand by nearly 35%, accounting to 2000 billion kilometers in 2035¹. This, combined with more efficient vehicle technologies, can cumulatively save above 1 gigatonne of CO₂ through 2030².

Globally, shared mobility is on an upward trend. Particularly carsharing is exhibiting significant growth in all major regions over the past several years. In October 2016, carsharing was operating globally in 2,095 cities across 46 different countries, serving 15 million passengers with nearly 157,000 vehicles. This represents a 76% increase in users (passengers) and a 23% increase in vehicles since 2014. Asia accounts for 58% of carsharing members and 43% of the shared car fleet. As shown in figure 2, the number of passengers opting for carsharing has increased from 81,000 to 87,00,000 between 2010 and 2016 and the number of vehicles on this platform has grown from 4,315 to 67,329³. Carsharing compliments public transportation and ridesourcing, effectively serving different mobility requirements. Shared mobility is perhaps the future of mobility.

Citations

1. Rocky Mountain Institute Analysis
2. FICCI, Rocky Mountain Institute, "Enabling Transition to Electric Mobility", November 2017
3. ITS Berkley, "Innovative Mobility: Carsharing Outlook," 2018, <https://escholarship.org/uc/item/1mw8n13h>



Exhibitor Profile

- Electric Vehicles
- Alternate Vehicles
- Hybrid Technologies
- Charging Infrastructure
- Start Ups
- Oil companies
- Power Infrastructure
- Renewable and Solar Energy
- Battery Manufacturers & Battery Management Systems
- Components for Future Mobility Vehicles
- Environment Friendly Fitments
- Other Accessories for Vehicles
- Country Pavilion
- State pavilion

Visitor Profile

- Decision Makers & Technical Experts from Industry
- Government Officials / Departments
- R&D and Technical Institutions
- Associations
- NGOs
- Consultants
- Certification & Testing Agencies
- General Visitors & End Users
- Dealers & Distributors
- Industry Representatives
- Academia
- Hospitals
- Malls
- Schools
- Metros
- Golf Clubs
- Hotels
- Travel Houses
- Transporters



Confederation of Indian Industry

125 Years - Since 1895

The Confederation of Indian Industry (CII) works to create and sustain an environment conducive to the development of India, partnering industry, Government and civil society, through advisory and consultative processes.

For 125 years, CII has been working on shaping India's development journey and, this year, more than ever before, it will continue to proactively transform Indian industry's engagement in national development.

CII is a non-government, not-for-profit, industry-led and industry-managed organization, with about 9100 members from the private as well as public sectors, including SMEs and MNCs, and an indirect membership of over 300,000 enterprises from 288 national and regional sectoral industry bodies.

CII charts change by working closely with Government on policy issues, interfacing with thought leaders, and enhancing efficiency, competitiveness and business opportunities for industry through a range of specialized services and strategic global linkages. It also provides a platform for consensus-building and networking on key issues.

Extending its agenda beyond business, CII assists industry to identify and execute corporate citizenship programmes. Partnerships with civil society organizations carry forward corporate initiatives for integrated and inclusive development across diverse domains including affirmative action, livelihoods, diversity management, skill development, empowerment of women, and sustainable development, to name a few.

With the Theme for 2020-21 as Building India for a New World: Lives, Livelihood, Growth, CII will work with Government and industry to bring back growth to the economy and mitigate the enormous human cost of the pandemic by protecting jobs and livelihoods.

With 68 offices, including 10 Centres of Excellence, in India, and 8 overseas offices in Australia, Egypt, Germany, Indonesia, Singapore, UAE, UK, and USA, as well as institutional partnerships with 394 counterpart organizations in 133 countries, CII serves as a reference point for Indian industry and the international business community.

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