



Confederation of Indian Industry

FUTURE MOBILITY CONFERENCE 2019

26 – 27 February 2019

Gulmohar Hall, Bengaluru International Exhibition Centre (BIEC), Bengaluru

AGENDA

DAY 1: 26 February 2019

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| 1200 – 1215 | Exhibition Inauguration | |
| 1215 – 1315 | INAUGURAL SESSION: 7C's Vision: India's Roadmap towards Sustainable Mobility Shri Narendra Modi, Prime Minister of India has outlined the vision for the future of mobility in India based on the 7C's. The 7C's are Common, Connected, Convenient, Congestion-free, Charged, Clean and Cutting-edge. India is one of the fastest growing economy in the world and mobility becomes a key driver to boost growth. Given this background, this session will have stakeholders who will highlight the initiatives that have been taken by both the central and state Government and deliberate on how to build a future roadmap towards sustainable mobility | |
| 1215 – 1225 | Opening Remarks and Theme Setting by Session Chair | Mr Vikram Kirloskar Vice President, Confederation of Indian industry and Managing Director, Kirloskar Systems Ltd and Vice Chairman, Toyota Kirloskar Motor |
| 1225 – 1235 | Industry Perspective - CII's Work in the Mobility Sector | Mr Chandrajit Banerjee Director General Confederation of Indian Industry |
| 1235 – 1255 | State's Role in implementing a sustainable mobility ecosystem | Mr K J George Hon'ble Minister for Large and Medium Scale Industry Government of Karnataka |
| 1255 – 1305 | Future Mobility Show 2019: India Context | Mr C V Raman Chairman, CII Steering Committee on FMS 2019 and Senior Executive Director (Engg and R&D) Maruti Suzuki India Ltd |
| 1305 – 1315 | Concluding Remarks & Vote of Thanks | Mr Manoj Kohli Chairman, CII Task Force on Electric Mobility and Battery Storage and Executive Chairman SB Energy (SoftBank Group) |



Confederation of Indian Industry

1300 – 1430 LUNCH BREAK

1430 – 1600 Session I: Make in India: Manufacturing Hub for Auto Industry

Government of India has been actively pursuing “Make in India” program to promote manufacturing and production of goods and services locally. Automotive sector, contributing 49% of manufacturing GDP has been a key driver in this regard. However, the sector is currently undergoing through many challenges with regards to the regulatory framework, skill & infrastructure development, global competition and technological innovations/ disruptions. This session will deliberate on how both the Government and Industry can work together to enhance the regulatory environment, develop skill of labour workforce, fast-track infrastructure development, incubate R&D and innovation and enhance supply chain competitiveness to create an enabling ecosystem so that India can emerge as a world-class automobile and automotive value chain manufacturing hub

Discussion Points:

- What steps/initiatives should government and stakeholders take, so that India can emerge as a world class automobile manufacturing hub covering all stakeholders in the value chain?
- The FAME scheme is currently under revision and as per media reports Govt is thinking of EV and HEV
- Li-ion battery is one of the key components. What steps will be required to promote “Make in India” for batteries and other components like Motor, Power Electronics etc.?
- What policy levers are required from the Government to ensure that it enables India to become a hub of innovation in the mobility sector?
- India is one of the largest IT service provider globally and has largest digitally literate young population. How can this be leveraged in the manufacturing and mobility area to support the Make in India initiative?
- As we are focusing on manufacturing by “Make in India”, we should also focus on “Create in India”. What initiatives need to be taken to boost R&D in India to come up with affordable innovative solutions?
- What are the focus areas for infrastructure development to boost domestic manufacturing and promote growth of automotive and mobility sector?
- What is required to develop this infrastructure to facilitate domestic manufacturing of goods and services?

Moderator

Mr Deepangshu Dev Sarmah, Editor-in-Chief, Auto Tech Review

Panelists

- **Mr Guruprasad Mudlapur**, Managing Director, Robert Bosch Automotive Electronics Pvt. Ltd
- **Mr Shekar Viswanathan**, Vice Chairman and Whole Time Director, Toyota Kirloskar Motor
- **Mr Nishant Arya**, Chairman- CFT-EV, ACMA & Executive Director, JBM Group
- **Dr J Dhinagar**, Vice President, TVS Motor Company
- **Mr Tarun Mehta**, Co – Founder, Ather Energy



Confederation of Indian Industry

FUTURE MOBILITY CONFERENCE 2019

26 February 2019

1600 – 1730 UK Session on Driving Electric Mobility Partnerships through Innovative Strategies

India is driving towards a “shared, connected & electric” mobility system and is exploring innovative ways to increase the share of low carbon vehicles in its transportation fleet. India and the UK are committed to the Paris Agreement and to a bilateral Energy for Growth Partnership to develop secure and sustainable sources of energy. The two countries are working together on policies, research, technology partnership and knowledge exchange in a wide spectrum of areas. The UK is taking significant stride on Electric Mobility and has made it an integral part of its transportation policy. UK’s Road to Zero Strategy is one of the most comprehensive plans globally – mapping out how the UK will reach a target for all new cars and vans to be, effectively, zero-emission by 2040. This session aims at exploring opportunities to collaborate with Indian State Governments, think-tanks, businesses and research institutions to develop long-term partnerships between India and UK in the electric mobility space.

1600 – 1605 Welcome and Opening remarks by Dr Daniel Bradley, Team Leader, Low Carbon Growth, British Deputy High Commissioner, New Delhi

1605 – 1615 Address by Mr Dominic McAllister, British Deputy High Commissioner, Bengaluru

1615 – 1645 Panel Discussion on: Innovative implementation aspects around EV Charging Infrastructure, Grid Management, Battery Manufacturing and RE Integration

Chair: Dr Daniel Bradley, Team Leader, Low Carbon Growth, UK Trade Economics and Prosperity, British High Commission, New Delhi

- **Mr Keith Budden**, Head of Business Development, Cenex, UK
- **Mr Charles O’Donoghue**, Chief Technology Officer, EV Driver, UK
- **Ms Rasita Chudasama**, Principal Transport Planner, Nottingham City Council, UK
- **Mr Karthik Durgaprasad**, Partnerships and Project Manager, Hubeleon, UK
- **Mr Alaisdair Muntz**, Programme Engineer, Energy Systems Catapult
- **Mr Matthew Morgan**, Operations Director & Electric Vehicle Charging Specialist, The

1645 – 1710 Panel Discussion on: Strategic Transition towards Electric Mobility

Chair: Mr Peter Stones, Department for International Trade, UK

- **Ms Erin Walsh**, Director of Market Intelligence, Future Cities Catapult, UK
- **Mr Vikash Mishra**, Consultant, Electric Mobility Initiative, India
- **Dr Chris Rushton**, Transport Systems Catapult, UK
- **Mr Scott Milne**, Business Lead, Insights and Evidence, Energy Systems Catapult
- **Mr Andrew Stokes**, International Business Development Manager, Energy Systems Catapult
- **Mr Tom Reade**, Project Manager and AQ Specialist, Energy Systems Catapult

1710 – 1725 Q & A

1725 – 1730 Concluding Remarks and Vote of Thanks by Dr Daniel Bradley

END OF DAY 1



Confederation of Indian Industry

FUTURE MOBILITY CONFERENCE 2019

26 – 27 February 2019

DAY 2: 27 February 2019

1030 – 1130 Digital Solutions for Future Mobility

Discussion points

- Future of mobility would put huge pressure on development time and cost to bring out frugal innovation. How do you see the role of increasing software solutions to meet these challenges?
- How technology can be used in integrating all mobility solutions so that consumer get all options of mobility along with its travel cost to choose from?
- The usage of electronics and software's have increased in past in automobiles, it is expected that use of the same will further enhance to a greater extent. What would be the challenges and opportunities considering this shift?

Presentations by:

- **Mr Brahmanand Reddy Patil**, Managing Director, Vector Informatik
- **Mr Shree Harsha**, Business Consulting Director – Transportation & Mobility, Dassault Systèmes
- **Mr Sridhar Dharmarajan**, Managing Director, Indo-Pacific Region, MSC Software

1130 - 1200 TEA BREAK



Confederation of Indian Industry

FUTURE MOBILITY CONFERENCE 2019

26 – 27 February 2019

1200 – 1345 **Session II: Responsible Mobility: Building a Sustainable Ecosystem**

India is a country of billion plus people and need for mobility is going to increase in future. Considering the economic strata of the society and the need for various modes of mobility, a well thought out strategy for future mobility needs to be put in place. At the same time, India faces some of the greatest environmental challenges today. A part of this problem arises out of mobility. People need a seemingly infinite network of vehicles and transportation systems for the progress of society and economy. While on one hand there are issues of local city pollution, on the other hand India need to look at the issue of global warming related to carbon emissions. In this session, the stakeholders will deliberate on short, medium and long-term policy roadmap for the nation covering the following major aspects:

- Alignment of various initiatives for an integrated view of country's mobility needs
- Enabling policy environment for building capacities & align capital investments for mobility sector
- Encouraging technological innovation for creating affordable solutions for India
- Infrastructure development with city, state and central government partnership
- Solutions to help India make the transition towards a mobility ecosystem which is cleaner, cheaper and sustainable

Discussion Points

- What are the initiatives taken for creating India specific affordable solutions for mobility sector?
- Uniform long term stable policy framework for all technologies in line with the national objectives
- What are the initiatives/ policies that Government/ stakeholders need to take to encourage technological innovations?
- What are the government's focus areas for infrastructure development for mobility sector?
- What are the steps that the Government and the industry are required take to increase public awareness to achieve a clean, affordable and sustainable mobility ecosystem?
- What are the essential tools for awareness and behavior change initiatives required in this field?
- What are the different sets of stakeholders (in society, government and industry) that need to be identified and targeted across the value chain who can bring about this awareness?
- Are social campaigns a solution in helping the transition towards clean and responsible mobility?

Address by: Mr Anil Srivastava, Advisor, NITI Aayog

Special Presentation: Mr Sujith Nair, Co-Founder & CEO, Open Mobility Foundation

Moderator: Mr Hormazd Sorabjee, Editor -in- Chief, AutoCar

Panelists

- **Mr N Sivasailam**, Special Secretary – Logistics, Department of Commerce, Ministry of Commerce and Industry, GoI
- **Mr B Basavaraju**, Principal Secretary, Transport, Government of Karnataka
- **Mr Vijay Jaiswal**, Director of Automotive, Government of Telangana
- **Mr C V Raman**, Senior Executive Director (Engg and R&D) Maruti Suzuki India Ltd
- **Prof R V Ravikrishna**, Professor - Department of Mechanical Engineering, IISc Bengaluru

1345 – 1500 LUNCH



Confederation of Indian Industry

FUTURE MOBILITY CONFERENCE 2019

26 – 27 February 2019

1500 – 1630 Session III: Smart, Shared and Connected: India's Urban Mobility Landscape

Traffic congestion has increased dramatically in India over the past few years. Congestion and the associated slow urban mobility can have a huge adverse impact on both the quality of life and the economy. Convenience, Predictability and Reliability are the three focus areas when we look at smart urban mobility. In addition to this, it is important to ensure that India moves towards fostering greener, faster and cheaper transportation for all. In this context, this session will be deliberating on strategies to transition to alternative transportation modes to help metropolitan areas reduce traffic congestion and reduce pollution. It will also discuss the necessary steps that needs to be taken by industry and Government to meet the changing mobility needs of urban cities

Discussion Points

- Traffic Congestion is one of the key concerns nowadays, how connected and digital technology can aid in having intelligent traffic management system to ease congestion by predicting the traffic situation and making consumer aware about the same?
- How connected technology can help in enhancing the safety and reduce road accidents?
- What strategies can be considered for transition to alternative transportation modes to help metropolitan areas reduce traffic congestion and reduce pollution?
- What are the necessary steps that needs to be taken by industry and Government to meet the changing mobility needs of urban cities?
- Reliable last mile connectivity is a problem in many urban areas and commuters find it difficult to reach their end destination from mass transport hubs/ stops. What steps can be taken to ensure a seamless last mile connectivity to commuters, so that they can easily adopt to mass mobility?
- How do we ensure infrastructure and safety for cyclists and pedestrians in order to increase usage of different modes of transport freely?
- Is deconstructing the already congested urban landscape or redevelopment of the existing urban infrastructure a solution to build a more accessible and faster mobility ecosystem?
- Construction activities take time to complete and it creates increased congestion during this phase.
- Are there any contingency plans to tackle these types of situations? How can we increase the efficiency of these activities?

Moderator

Mr Sumantra B Barooah, Editor – Auto car Professional

Panelist

- **Mr Mahendra Jain**, Additional Chief Secretary, Urban Development Department, Government of Karnataka
- **Ms Rajnish Goyal**, General Manager – ESSG, Bharat Heavy Electricals Limited (BHEL)
- **Dr Naveen Gautam**, Managing Director, Hella India
- **Mr Nishchay AG**, Director-Supply Chain, Bounce
- **Mr Manish Agarwal**, Vice President Infrastructure & Head Sales & Business Development, Mobility Division, Siemens Limited
- **Mr Ashwin Mahesh**, Co - Founder, Lithium Urban Technologies Private Limited
- **Mr V A Pankhawala**, Deputy Director (Business Development & Corporate Planning), The Automotive Research Association of India (ARAI)



Confederation of Indian Industry

FUTURE MOBILITY CONFERENCE 2019

26 – 27 February 2019

1630 – 1730 Session IV: Future of Transportation Fuel in India

Promotion of clean transport involves more reliance on cleaner fuels and alternative energy sources. The diversification of energy sources that comes with exploration and exploitation of alternative energy will also improve energy security. In this backdrop, this session will discuss various new energy solutions and policy initiatives which would be required by the Government in building an ecosystem which will ensure their efficiency, accessibility and affordability of the alternative energy resources based mobility.

Discussion Points

- India has so much potential in alternative energy sources. What are the plans to develop a harmonized and integrated ecosystem that can fully utilize the untapped alternative energy potential?
- What are the practical challenges in the integration of alternative energy sources with mobility?
- Is the future road for mobility paved by natural gas, biofuels, electricity or hydrogen etc.?
- What steps are being taken by stakeholders to develop infrastructure for alternative fuels?
- Will alternative fuels ever reach to a stage where they can achieve the efficiency, accessibility and affordability which conventional fuels provide? Can alternative fuels ever substitute the conventional fuels?

Address by

- **Mr Nitin Prasad, Chairman**, CII National Committee on Hydrocarbons and Chairman, Shell Group of Companies, India
- **Mr G S Krishnan**, Chairman, CII Task Force on Bioenergy and Managing Director, Novozymes South Asia Private Limited
- **Mr P K Pandey**, Vice President – Marketing, Indraprastha Gas Limited
- **Dr Reji Mathai**, Chief General Manager (TPF), IOC R&D Centre
- **Mr Raju B Ketkale**, Senior Vice President & Director (Product Design and Development), Toyota Kirloskar Motor

END OF CONFERENCE
