



Bus Karo Agenda: Strategizing Electric Bus Operations in Indian Cities

Day 1: April 5, 2018

Time	Sessions
09:30 am - 10:00 am	Registration
10:00 am - 10:30 am	<p>Workshop Inaugural: This session will set the context of the workshop.</p> <p>Speakers:</p> <ul style="list-style-type: none"> • Mr M K Sinha, Joint Secretary, MoHUA* • Mr. Anil Srivastava, Director General, NITI Aayog • Mr Amit Bhatt, Executive Director, WRI India
10:30 am - 11:30 am	<p>Early Adopters of Electric buses in India</p> <p><i>This session will focus on a conversation amongst some early adopters we have identified to understand the type of policies and incentives they expect to start using EV's including charging infrastructure, non-cash incentives, alignment with 'Make-in-India'.</i></p> <p>Speakers:</p> <ul style="list-style-type: none"> • Mr. Ashwin Mahesh, Co-Founder, Lithium • Ms. Akshima Ghate, Associate, TERI • Mr. Bhavesh Manglani, COO, Co-Founder, Delhivery • Mr. Neeraj Gupta, Managing Director, Meru Cabs • Mr Madhav Pai, Director (Cities), WRI India (Moderator)
11:30 am - 11:45 am	Tea
11:45 am - 01:15 pm	<p>Battery Technology</p> <p><i>This session will focus on current electric technologies available in the market including battery technologies and the methods to assess extant products as per their technical specifications, operational performance, financial implications, risks and challenges before procurement.</i></p> <p>Speakers:</p> <ul style="list-style-type: none"> • Dr. Rahul Walawalkar, Executive Director, India Energy Storage Alliance • Mr Ajay Goel, Chief Operating Officer, Sun Mobility • Mr. A C Huzefa, Head- Electric & Hybrid Vehicle Technology and Attribute, Ashok Leyland • Mr Mike Weston, Advisor to the C40 Cities Finance Facility • Mr Anand Swaroop, Chief Operating Officer, Goldstone* • Ms Apurba Mitra, WRI India
01:15 pm - 02:00 pm	Lunch
02:00 pm - 03:15 pm	<p>Innovation in Public Bus Transit</p> <p><i>This panel will focus on the potential of innovation and technology to transform India's public bus services. The discussion will focus on opportunities for improvement within</i></p>

	<p><i>public bus agencies, the role of private sector engagement in improving operational efficiency and commuter experience and the potential models of engagement between the two.</i></p> <p>Speakers:</p> <ul style="list-style-type: none"> • Mr V Ponnuraj, MD, BMTC* • Mr H S Ashokanand, MD, NEKRTC • Mr Chandramauli Shukla, CEO Bhopal Smart City Devp. Corp. • Mr Sanjay Soni, MD, AiCTSL, Indore • Mr M Ramshekhar, CEO, DIMTS • Mr David Adelman, Vice President- Business Development, Via • Mr Vipin Jain, Chief Technical Officer, Mytrah NN4Energy • Mr Pawan Mulukutla, WRI India (Moderator)
03:15 pm - 03:30 pm	Tea
03:30 pm - 05:00 pm	<p>Supporting Infrastructure for Electric Buses <i>This session will focus on the supporting infrastructure that cities must consider while planning and implementing electric bus projects. The discussions will be on support infrastructure - depots, terminals and grid integration required for successful operations of electric buses.</i></p> <p>Presentation by Himachal Pradesh Road Transport Corporation on Himachal's Electric Bus Experience by Mr HK Gupta, Chief General Manager, HRTC</p> <p>Speakers:</p> <ul style="list-style-type: none"> • Mr Praveer Sinha MD, Tata Power – DDL* • Mr Ankit Singhvi, CEO, Mytrah NH4 Energy • Mr AK Jindal, Head – Engg (Commercial Vehicles), TATA Motors* • Mr Mike Weston, Advisor to the C40 Cities Finance Facility • Mr Prasanna Patwardhan, President, BOCI • Mr Prashanth Bachu, Urban Transport Specialist, Gear Change • Mr Pravin Agarwal, Director, DHI (Moderator)

Day 2: April 6, 2018

9:30 am – 10:00 am	Recap of Day 1
Strategizing Electric Bus Operations in Indian Cities Contd.	
10:00 am - 11:30 am	<p>Financing For Electric buses</p> <p><i>This session will focus on costs of electric buses, maintenance and operation costs, innovative financing mechanism, global best practices and help leverage STUs some of the available funding options as they move towards adoption of electric buses. The discussions will also include on development of sustenance plans in the absence of subsidies.</i></p> <p>Speakers:</p> <ul style="list-style-type: none"> • Prof Shivanad Swamy, CEPT University, Ahmedabad • Mr Sanjay Sridhar, Regional Director C40 • Mr Shishir Maheshwari, Director – Investments, SUN Group • Dr Holmes Hummel, Principal, Clean Energy Works • Mr Saurabh Trivedi, Lead Analyst, Climate Policy Initiative • Mr Sebastian Castellanos, Associate, WRI • Mr Deepak Krishnan, Manager-Energy Program, WRI India • Mr Pawan Mulukutla, WRI India (Moderator)

11:30 am - 11:45 am	Tea
11:45 am - 01:15 pm	<p>Operations Planning for Electric Buses</p> <p><i>This session will focus on planning of routes for electric buses considering that factors like type of route, length of route, terrain, number of stops on the route, vehicle speeds, loads etc. have impact on the energy consumption of the bus.</i></p> <p>Speakers:</p> <ul style="list-style-type: none"> • Mr Victor Nagaonkar, OSD- BEST Undertaking • Mr. Aravind Sampathkumaran, Head Software Engineering, Sun Mobility • Mr Mike Weston, Advisor to the C40 Cities Finance Facility • Mr Prasanna Patwardhan, President, BOCI • Mr Deepak Trivedi, General Manager, Janmarg • Mr Amit Bhatt, WRI India (Moderator)
01:15 pm - 02:00 pm	Lunch
Exploring collaborative Models for public and on-demand bus transport in Indian cities	
<p><i>The session will showcase the results of the study on impacts of bus aggregator models (on demand bus services) on environment and congestion. It will also focus on an interactive workshop for participants to discuss models for collaboration that will enable city regulators and transit agencies to leverage benefits offered by such models to meet the city's sustainable transportation goals.</i></p>	
02:00 pm – 02:30 pm	<ul style="list-style-type: none"> • Moderated by Mr Amit Bhatt, WRI India • An opening presentation on The Environmental Impact of a Bus Aggregator Model in Delhi-NCR by Mr Ojas Shetty, WRI India
02:30 pm – 03:15 pm	Breakout Sessions: Participants will be divided into working groups to identify specific use cases to build pilot experiments as partnerships between transit agencies and bus aggregator companies
03:15 pm – 03:30 pm	Tea
03:30 pm – 04:30 pm	Working Group presentations and wrap up
04:30 pm – 05:00 pm	Closing