

Capacity building workshop

ZETs in India: Building capacity, driving impact

18 July 2024 | 10:00 am to 4:30 pm IST



Introduction

India's trucking sector has a key role to play in its burgeoning economy. As much as 70% of India's domestic freight is moved by medium and heavy-duty trucks (MHDTs). With regards to the transportation of the freight, over 5.7 million trucks are running on Indian roads¹ as of January 2024. Over 90% of them are using diesel as fuel, a highly polluting source. Thus, electrification of MHDTs presents untapped opportunities. Transitioning to zero-emission trucks is crucial for achieving climate goals. However, this shift presents challenges for fleet operators and stakeholders. This workshop aims to build capacity by equipping participants with the knowledge and tools to enable accelerated transition of their road logistics to Zero Emissions. The capacity building workshop on 'ZETs in India: Building Capacity, Driving Impact' is being organised by [Climate Group](#) in partnership with the Centre of Excellence on Zero Emission Trucking ([CoEZET](#)), IIT Madras and [pManifold business solutions](#) as technical partner.

Workshop Schedule:	
Agenda	Time
Registration	09.15 – 09.45 am
Welcome Address	9:45 am – 10:00 am
Session 1A: Zero-Emission Truck Technologies and their Applications <ul style="list-style-type: none"> • Overview of different ZET technologies • BET v/s other ZET alternatives (H2 ICE, H2 Fuel Cell) v/s other low emission alternatives (CNG/LNG) • BET fleet operational nuances v/s typical SLA • EV models, chargers, etc. 	10:00 am – 10:45 am

¹ [VAHAN SEWA| DASHBOARD \(parivahan.gov.in\)](https://parivahan.gov.in/VAHAN_SEWA/DASHBOARD)

<p>Session 1B: Ecosystem Readiness</p> <ul style="list-style-type: none"> • Operating models for electrification – BET lease, financed purchase, demand aggregation, etc. • Charging & energy infrastructure • Trucking use case applications and characteristics • Technical and commercial feasibility of ZETs across use-cases – key trade-off points 	<p>10:45 am – 11:30 am</p>
<p>Break</p>	<p>11:30 am – 11:45 am</p>
<p>Session 1C: ZET Initiatives and Success stories by CoEZET team</p> <ul style="list-style-type: none"> • ZET Roadmap by Office of PSA • ZET Model Availability & Pilots • BET Safety Initiatives • ZET Maintenance & Repair Cost Estimation 	<p>11:45 am – 12:30 pm</p>
<p>Lunch Break</p>	<p>12:30 pm – 1:30 pm</p>
<p>Session 2A: EV Financing Case-studies Case studies to be presented by industry experts followed by Q&A discussion</p>	<p>1:30 pm – 3:00 pm</p>
<p>Break</p>	<p>3:00 pm – 3:15 pm</p>
<p>Session 2B: Financing the Transition to Zero-Emission Trucking</p> <p>Moderated group discussion (CG to moderate)</p> <ul style="list-style-type: none"> • Exploring various financing options for ZET acquisition and infrastructure development • Public funding programs, grants, and subsidies • Private sector financing solutions (loans, leases) 	<p>3:15 pm – 4:15 pm</p>
<p>Wrap-up and Closing Remarks</p>	<p>4:15 pm – 4:30 pm</p>

About COEZET, IIT Madras:

The Indian Institute of Technology Madras (IITM) launched the Centre of Excellence for Zero Emission Trucking (CoEZET) to spearhead India's shift to electric trucks. CoEZET tackles the challenges of integrating electric trucks over 12T into India's transportation system. Their goal is to become the ultimate resource for all things ZEV trucking, serving stakeholders both within India and abroad.

About Climate Group:

Climate Group is an international non-profit, launched in 2004, with offices in London, Amsterdam, Beijing, New Delhi, and New York. Our mission is to drive climate action, fast. Our goal is a world of net zero carbon emissions by 2050, with greater prosperity for all. We do this by forming powerful networks of business and government, unlocking the power of collective action and scale to move whole systems such as energy, transport, the built environment, industry, and food to a cleaner future. Together, we're helping to shift global markets and policies towards faster reductions in carbon emissions.

About EV100+:

[EV100+](#) is a global initiative led by the international non-profit Climate Group, which brings together companies committed to switching their owned and contracted fleets above 7.5t, known as medium- and heavy-duty vehicles (MHDVs) to zero emission by 2040 across OECD markets, India and China. Building on the success of the EV100 initiative, EV100+ was launched in 2022 and will tackle the heaviest, most polluting vehicles on the road globally.

About pManifold:

pManifold is a Strategic Consulting and Advisory company that specializes in e-Mobility, New Energy, and Utilities. pManifold help countries, cities, industries and organizations drive innovation and transformation across their solutions, services, business models and policies; enabling them to achieve faster climate and sustainability reforms, higher levels of customer experience, and profitable market growth.