



Fourth Conference on

CLEAN BUSES US

November 19-20, 2024

South San Francisco Conference Center

Hosted by:

Global **Mass Transit**

Sponsors:



Supporting Partners:



Time (PST)	Session	Topic	Speaker
8:00–9:00	Registration, Tea/Coffee and Networking		
9:00–9:15	Welcome Remarks	Welcome remarks & mission of the conference	Global Mass Transit
9:15–10:00	Session 1: Opening Keynote Session on Paving the Path to Net Zero: The Crucial Role of Zero-Emission Buses (ZEBs)	- Sustainability leadership with ZEB deployment - Funding needs and requirements; closing the gap - Role of government policies, incentives and PPPs in accelerating the deployment of ZEBs - Overcoming supply chain challenges, potential solutions - Prioritizing accessibility, equity, and inclusivity with ZEB deployments	<i>Panel discussion Amongst:</i> - Craig Bosman, Principal, Funding Policy and Programs, Metropolitan Transportation Commission - Julie Kirschbaum, Director of Transit, San Francisco Municipal Transportation Agency Moderator: Mike Hynes, National Transit Bus Program Manager, CALSTART
		Discussion and Q/A with the delegates	
10:00–10:45	Session 2: Federal Funding and Programs	- DOE Activities and Opportunities for Hydrogen Fuel Cell Buses: Hydrogen buses are a high impact end use for hydrogen, and part of the U.S. National Clean Hydrogen Strategy and Roadmap strategy to scale up heavy-duty transportation in the U.S.; hydrogen fuel cell buses are a key end use planned in several of the regional clean hydrogen hubs; full electrification of the bus industry will require both EV and H2 fuel cell electric technologies; DOE has issued a Notice of Intent to issue a Notice of Funding Opportunity (NOFO) with plans to fund domestic hydrogen fuel cell electric motorcoach development and demonstrations by US DOE - Overview of EPA’s Diesel Emission Reduction Act (DERA) program which funds grants that protect human health and improve air quality by reducing harmful emissions from diesel engines as well as the Clean School Bus (CSB) Program; and funding from the Bipartisan Infrastructure Law the CSB Program provides \$5 billion over five years (FY22-26) to replace existing school buses with zero emission and clean school buses by US EPA	<i>Presentations by:</i> - Michael Hahn, Technology Manager, US DOE M. Miglio, Clean School Bus and Grants Technical Lead, US Environmental Protection Agency, Region 9, US EPA Moderator: Mike Hynes, National Transit Bus Program Manager, CALSTART
		Discussion and Q/A with the delegates	
10:45–11:15	Tea/Coffee and Networking Break		
11:15–12:00	Session 3: Navigating State Support for ZEBs	- Funding for zero-emission medium and heavy-duty fleets; expansion of charging infrastructure across the Bay Area; and opportunities for collaboration across industries for a transition to zero-emission by Bay Area Air Quality Management District - California Energy Commission’s funding programs for medium- and heavy-duty zero-emission vehicle infrastructure by California Energy Commission	<i>Presentations by:</i> - Minda Berbeco, Manager, Bay Area Air Quality Management District - Esther Odufuwa, Air Pollution Specialist, California Energy Commission Moderator: Michelle Levinson, Senior Manager, eMobility Finance & Policy, World Resources Institute
		Discussion and Q/A with the delegates	

12:00–13:00	Session 4: Revolutionizing Fleet Transition: Innovative Charging Solutions, Strategic Planning, and Emerging Technologies	• Use case of autonomous public transportation bus applications by Karsan • Level 2.5 makes DC Fast Charging accessible with 220V; charges 3x - 21x faster; eliminates the need of construction; cuts total cost into half by ChargePodX • Adopting the 4 'Ps' of Fleet Transition guarantees success; developing plans in silos stifle plan effectiveness; how to involve your community in fleet transition by Augusta Transit	<i>Presentations by:</i> • Deniz Cetin, Chief Commercial Officer, Karsan • Susan Linwood, CEO, ChargePodX • Oliver Page, Deputy Director, Augusta Transit • Moderator: Sam Pournazeri, Senior Director of Clean Transportation & Energy, ICF
<i>Discussion and Q/A with the delegates</i>			
13:00–14:00	Lunch and Networking		
14:00–15:15	Session 5: Infrastructure Opportunities: Charging and Hydrogen Refueling Solutions	• How to design, build, operate, train, maintain, and scale up your EV bus infrastructure for long term success by ABM eMobility • New high-capacity hydrogen refueling station, which aligns perfectly with the transit sector's needs in the coming years by Cavendish Hydrogen • ABB product overview; best management practices and product differentiators; previously completed projects and lessons learned; future product roadmap by ABB E-mobility • Transferring hydrogen across the value chain: maximizing efficiency and preventing losses; overview of the hydrogen value chain, optimizing performance and minimizing losses; understand why controlling the molecule is critical for successful clean energy transition; gain knowledge of ways to control the molecule and prevent losses; and learn why liquid hydrogen is the preferred choice for mass transit by GenH2	<i>Presentations by:</i> • Joshua Goldman, Senior Director of Sales, eMobility, ABM eMobility • Eddy Nupoort, Senior Director, Sales, and Business Development Americas, Cavendish Hydrogen • Ian Stern-Markovitz, Sales Manager Bus & Transit, Central Region, ABB E-mobility • Chris Wallington, Vice President, GenH2 • Moderator: Andrew Papson, Associate Principal, Clean Mobility Solutions, Arup
<i>Discussion and Q/A with the delegates</i>			
15:15–16:15	Session 6: ZEB Deployment: Experience so Far and Best Practices - Part 1	• Bus Electrification at San Francisco International Airport • Trying to futureproof facilities for Zero Emission Vehicles; getting maintenance bays ready to service hydrogen vehicles; planning ahead and dealing with your electrical utility provider; locating chargers around the service areaTopic to be confirmed by Napa Valley Transportation Authority • Facilities and fleet transition planning by RTD Denver	<i>Presentations by:</i> • Seth Morgan, Senior Transportation Planner Landside Operations, San Francisco International Airport • Rebecca Schenck, Program Manager-Public Transit, Napa Valley Transportation Authority • Fred Worthen, Assistant General Manager-Bus Operations, RTD Denver • Moderator: Sam Pournazeri, Senior Director of Clean Transportation & Energy, ICF
<i>Discussion and Q/A with the delegates</i>			
End of Day 1			

Time (PST)	Session	Topic	Speaker
8:00–9:15	Tea/Coffee and Networking		
9:15–10:30	Session 7: ZEB Deployment: Experience so Far and Best Practices - Part 2	● Innovative Clean Transit (ICT) regulation implementation update; lessons learned from the ICT comprehensive review; status of zero-emission school buses by California Air Resources Board ● State-of-the-art depot management is key for successful mixed fleet bus operations by PSI Transcom GmbH ● Lessons learned as an early adopter of electric school buses in the US; the problems and obstacles encountered and developed the above-ground infrastructure solution in response to the challenges to reduce cost and deliver a flexible approach to power distribution; and examples of what we did to successfully deploy over 100 ESBs at a single site converting a fully diesel fleet to become 100% battery-electric by First Student ● Separating marketing from reality: working with manufacturers; battery electric performance in the real world; labor and workplace considerations; identifying leaders and influencers; maintenance considerations; lessons learned: and what has one more than one million miles of zero emission service delivery taught us by Everett Transit	<i>Presentations by:</i> ● Shirin Barfjani, Air Pollution Specialist, California Air Resources Board ● Jost Geweke, Business Development Manager, PSI Transcom GmbH ● Steve Mentzer, Senior EV Principal Consultant, First Student ● Michael Schmieder, Director, Everett Transit ● Moderator: Mike Hynes, National Transit Bus Program Manager, CALSTART
		<i>Discussion and Q/A with the delegates</i>	
	10:30–11:00	Tea/Coffee and Networking Break	
11:00–11:30	Session 8: New Sources of Financing	● IRA C30 tax credits explained; energy savings performance contracts explained; boost revenues through earning additional LCFS credits (carbon credits) from your EV chargers; finance your charging infrastructure through monetizing estimated annual LCFS and tax credits; by STX Group	<i>Presentation by:</i> ● Stephanie McGreevy, Senior Consultant EV, EVSE & Fleets, STX Group ● Moderator: Laura Renger, Executive Director, California Electric Transportation Coalition
		<i>Discussion and Q/A with the delegates</i>	
11:30–12:15	Session 9: Investing in Grid Infrastructure to Support Electric Buses	● Proceeding regarding the utility and grid readiness for MHD vehicles; transit authority make-ready program; and at scale analysis of the MHD EV market in NY by New York State Department of Public Service ● Initiatives on electrification that impact bus fleets around grid planning for medium duty and heavy duty electric vehicles by California Public Utilities Commission	<i>Presentations by:</i> ● Zeryai Hagos, Deputy Director, Office of Markets and Innovation, New York State Department of Public Service ● Leuwam Tesfai, Deputy Executive Director for Energy and Climate Policy, California Public Utilities Commission ● Moderator: Laura Renger, Executive Director, California Electric Transportation Coalition
		<i>Discussion and Q/A with the delegates</i>	
12:15–13:30	Session 10: Valedictory Session on The Road Ahead: What’s Next for Zero-Emission Buses in the US?	● Small transit agency fleet transition and determination of propulsion type by Redding Area Bus Authority ● Fleet and infrastructure planning; partnering with the grid in mind; and regional electrification planning by Utah Transit Authority ● Holistic approach to fleet electrification, including lessons learned, future procurement strategies and challenges ahead by San Francisco Municipal Transportation Agency ● Role in the ComEd Program: Incentivizing buses, transit, and fleets in Chicago by Center for Sustainable Energy	<i>Presentations by:</i> ● John C. Andoh, Transit General Manager, Redding Area Bus Authority ● Jay Fox, Executive Director, Utah Transit Authority ● Bhavin Khatri, PE, PMP, Zero Emission Program Manager, San Francisco Municipal Transportation Agency ● Dan Welch, Director of Commercial Vehicle Programs, Center for Sustainable Energy (CSE) ● Moderator: Juan Felipe Torres, Senior Transportation Planner, Arup

		<i>Discussion and Q/A with the delegates</i>
13:30–14:30	Lunch and End of the Conference	