



Third Annual Conference on

Hydrogen-fuelled Buses and Infrastructure in Europe

December 1, 2022 | 9:00 am to 4:30 pm CET | Amsterdam Marriott Hotel

Hosted by:

Global **Mass Transit**

BACKGROUND

Hydrogen as a fuel for public transport is expected to play a critical role in Europe being able to achieve 55 per cent net emission reductions by 2030 (compared to 1990) and net zero by 2050.

Significant progress has been made towards the deployment and commercialisation of hydrogen-fuelled buses and infrastructure in the last few years. This has been driven by European Commission's initiatives including the H2BusEurope scheme to deploy 1,000 hydrogen buses and infrastructure, JIVE and JIVE 2 projects to operate nearly 300 fuel cell electric buses (FCEBs), 3Emotion, MEHRLIN, revision of the Directive on deployment of the alternative fuels infrastructure (DAFI), and so on. These initiatives have advanced the commercialisation of FCEBs, facilitated commercial viability for bus operators and demonstrated a financeable demand-led business model for HRSs.

Many cities including Aberdeen, Köln, Meckenheim, Groningen, Drenthe, Versailles, Heinenoord, London, Bolzano and Aargau have undertaken path breaking initiatives to deploy fuel cell electric buses (FCEBs) and have relevant experiences to be shared with other cities.

Several important developments have taken place in 2022. Germany's Regionalverkehr Köln GmbH (RVK), which is already operating the largest hydrogen-fuelled bus fleet in Europe, ordered another 100 hydrogen-powered fuel cell hybrid buses in July 2022. In March 2022, The West Midlands region of the UK announced that it will receive 124 new hydrogen vehicles, making it the region with the largest hydrogen bus fleet in the western world with 144 buses. The Municipality of Venice announced that it will purchase 106 hydrogen-powered and build the relevant infrastructure by 2026. Many cities/regions including Barcelona, Bologna, Bolzano, Bratislava, Glonn, Hofolding, Innsbruck, Ile-de-France, Lille and Mallorca also placed new orders this year.

Use of hydrogen for bus transport is expected to receive a further impetus with the setting up of hydrogen valley projects in Denmark, France, Germany, Spain, Sweden, the Netherlands, Norway and the United Kingdom.

There are several benefits of deploying fuel cell buses, including almost no local emissions in terms of exhaust gas and reduced operating noise. The buses also guarantee the required ranges and short refuelling time. That said, there are still barriers of price and energy efficiency of FCEBs as compared to electric buses as well as the challenge of the hydrogen supply chain and infrastructure.

In light of these developments and opportunities in the segment, **Global Mass Transit (GMT)** is organising the **third edition of the conference on Hydrogen-fuelled Buses and Infrastructure in Europe on December 1, 2022** at the **Amsterdam Marriott Hotel**.

The mission of the conference is to discuss the European Commission's (EC) programmes, policies, initiatives and funding for hydrogen-fuelled buses and hydrogen refuelling stations (HRSs). It will evaluate the progress so far, highlight opportunities in the deployment of hydrogen-fuelled buses and development of infrastructure in Europe, provide information on procuring, financing, operating and maintaining hydrogen-fuelled buses as well as HRSs and discuss the experience so far, recent developments, best practices, issues with large-scale deployment and lessons learnt. It will also showcase noteworthy case studies and new and existing technologies.

The conference will bring together policymakers, transit agencies, city government officials, OEMs, bus manufacturers, suppliers of bus components, technology providers, energy providers, hydrogen-fuelling infrastructure providers, funding agencies, multilateral development banks, consultants, researchers and academicians.

The one-day in-person conference will have seven targeted sessions and case studies, with participation from a wide range of international experts, who will provide valuable insights and actionable advice. The agenda will cover the plans of cities for deploying hydrogen-fuelled buses and setting up HRSs in Europe. It will also highlight the latest developments and solutions to improve customer experience.

The conference will also help understand the role governments, transit agencies, transport operators, manufacturers and consultants can play in deploying hydrogen-fuelled buses in a city. Besides, it will provide insights into the offerings of leading manufacturers and suppliers.

There will also be a dedicated session on the experiences of leading cities in the deployment of hydrogen-fuelled buses. This will provide an opportunity to learn how to deploy hydrogen-fuelled buses and set up fuelling infrastructure, mobilise funding and manage stakeholder expectations.

Key topics to be discussed

- Role of hydrogen in achieving climate neutrality in Europe
- EC's initiatives in promoting hydrogen-fuelled buses
- Case studies, key deployments, experience so far
- Plans of cities for the deployment of clean buses
- Opportunities available for manufacturers of hydrogen-fuelled buses
- Total cost of ownership (TCO) of hydrogen-fuelled buses
- Operations and maintenance of hydrogen-fuelled buses
- Hydrogen refuelling stations and infrastructure
- Hydrogen valley projects and impact on mobility
- Current market size of hydrogen-fuelled buses and infrastructure
- Key recent trends and market outlook for hydrogen-fuelled buses in Europe
- Sources of financing
- Procurement of fuel cell buses and HRS
- Economics and business models
- Cost-effective integration of fuel cell buses in local bus fleets
- Technical and safety specifications for refuelling infrastructure
- Commercialisation of hydrogen
- Overcoming barriers to the uptake of hydrogen-fuelled buses and roll-out of infrastructure

Tentative Conference Program

DECEMBER 1, 2022 (9:00 AM TO 4:30 PM CET)

Session 1: Opening Keynote Session: Role of Hydrogen in Achieving Climate Neutrality in Europe - A Panel Discussion

- Hydrogen as a fuel for bus transport: benefits, viability and challenges
- Experience so far, best practices, lessons learnt
- Policy and regulatory framework
- Emerging trends, outlook and opportunities

Session 2: European Commission's Initiatives

- Initiatives, programmes, funding and progress so far
- Europe Green Deal, Fit for 55
- H2Bus, JIVE, JIVE 2, CHIC, 3Emotion
- A hydrogen strategy for a climate-neutral Europe

Session 3: Keynote Session on Success Factors, Plans and Priorities of Public Transport Authorities (PTA) and Operators (PTO)

- Experience so far, case studies, best practices
- Risks and challenges, lessons learnt
- City-level policies and initiatives for promoting the deployment of fuel cell buses
- Future plans, outlook and the way forward
- Expectations from private players

Session 4: Financing and Procurement Strategies

- Best practices in procurement
- Economics of Hydrogen-Fuelled Buses
- Development of tender documents, selection of suppliers, development of contracts
- Sources of financing
- Planning for operations of hydrogen buses
- O&M costs of hydrogen-fuelled buses, TCO

Session 5: Hydrogen Refuelling Stations (HRSs) and Infrastructure

- Procurement of HRSs
- Supply options
- Planning for HRS operations
- Standards and regulations
- Scaling-up infrastructure
- Impact of the revision of the Directive on Alternative Fuel Infrastructure (DAFI)

Session 6: OEM Perspective

- Launching new technologies, reducing costs, improving efficiency, commercialisation of hydrogen
- Supplier perspective
- Policy recommendations

Session 7: Case Studies, Future Plans and Scaling Up

- Examples of successful deployment of hydrogen-fuelled buses
- Plans of cities to deploy hydrogen-fuelled buses and set up HRSs
- Short-term, medium-term and long-term targets
- Investments and timelines
- Hydrogen valley projects and impact on mobility



Who should attend?

The event is expected to draw participation from executives, managers and decision-makers from:

- Public transport authorities and transport operators
- Government transport departments
- City governments/municipalities / local bodies
- Policymaking and regulatory bodies
- Hydrogen-bus OEMs and technology providers
- Hydrogen producers and suppliers
- Fuel cell companies
- Infrastructure OEMs
- Hydrogen storage companies
- Suppliers of hydrogen bus components
- Technology providers
- Multilateral agencies
- Banks and financial institutions
- Academic institutions
- Research and development organisations
- Transport associations
- Consultants
- Oil & Energy Companies
- Environmental Services organisations
- Hydrogen Generation Plants providers
- Providers of Hydrogen Refuelling Stations

Key benefits to participants

- Gain insight into the policies and projects for hydrogen-fuelled buses
- Learn about best practices in financing, procuring and deploying hydrogen-fuelled buses
- Explore strategies to resolve key legal, technical, operational and financial issues facing the deployment of hydrogen-fuelled buses
- Gain exposure to new technologies and market development strategies for hydrogen-fuelled buses
- Understand the lifecycle cost analysis for hydrogen-fuelled buses to build financially-viable business models
- Network with urban transport authorities, operators, key vendors, financiers, technology providers and consultants
- Gain valuable experience by participating in interactive discussions

ABOUT THE ORGANISERS

Global Mass Transit is a leading provider of information and analysis on the global mass transit industry. We publish a monthly market intelligence report (Global Mass Transit Report), a weekly newsletter (Global Mass Transit Weekly) and operate the www.globalmasstransit.net (website).

We publish multi-client research studies and undertake custom research assignments. Global Mass Transit tracks developments in over 100 countries across all regions to ensure reliable and actionable research. Some of our leading research reports are Europe Urban Bus Market Outlook Report 2022-2031; Global Transit Ticketing & Fare Collection Report 2021-2030; Asia Pacific Bus Market Outlook Report 2021-2030; Mobility-as-a-Service Initiatives and Opportunities in 100 Cities Report; Europe Rail Rolling Stock Report and Database 2022-2035; Global Upcoming Light Rail Projects Report & Database 2022-2036; and Global Upcoming Metro Rail Projects Report & Database 2022-2036.

Global Mass Transit also organises conferences on topical and crucial issues with focused sessions and discussions featuring speakers with vast experience and expertise in **North America, Europe, Asia Pacific, the Middle East and Africa**. These conferences received a strong response from speakers and delegates alike.

We have been serving over 300 clients since 2009. Our clients include leading organisations across the world such as ABB, Accenture, Access IS, Agence Métropolitaine de Transport (AMT), Apple Pay, Arriva Nederland, Auckland Transport, Aurecon, Autoritat del Transport Metropolità (ATM), Bangkok Payment Solutions Company Limited, Bombardier Transportation, Bosch GmbH, Conduent Business Solutions (France) SAS, Confederation of Passenger Transport, Confidex, Cubic Transportation Systems, DB Engineering & Consulting GmbH, DB Stadtverkehr GmbH, Datamatics Global Services, Deloitte & Touche Enterprise Risk Services, Discover Financial Services, DXC Technology, FEIG Electronic, FIME, Gemalto, a Thales Company, GFI Genfare, Giesecke & Devrient GmbH, Google Pay, GVB Amsterdam, IDOM Engineering and Consulting, Infineon Technologies, INIT GmbH, IVU Traffic Technologies AG, JCB International, Kapsch PublicTransportCom, Keolis, Korea Smart Card Company, KPMG, LG CNS, Masabi, Mastercard, Metro Ligerio Oeste S.A., Metropolitana Milanese SpA, Ministry of Transport of Czech Republic, MRT Jakarta, National Transport Authority of Ireland, New Zealand Transport Agency, NFC Forum, North Norway European Office, NXP Semiconductors, Pricewaterhouse Coopers, Provincie Gelderland, Provincie Noord-Brabant, PSI Transcom, RATP, Public Transport Neuchâtel, SamsungPay, Serco, Siemens, Singapore Land Transport Authority, SNCF, SNC-Lavalin, Sojitz Corporation, Stadtwerke Münster, Sumitomo Mitsui Card Company, Swissrail, Tallinna Linnatranspordi, Thales, Toshiba, Touch 'n Go, Transport for London (TfL), Transportes Metropolitanos de Barcelona, Transport Passengers Emilia-Romagna (TPER), VDV-Kernapplikations GmbH & Co. KG, Visa, Vix Technology, Wiener Linien, Wizway Mobile Ticketing, Worldline, etc.

SPONSORSHIP

Option 1 – EUR 4,500

- Speaking slot/ Presentation of 10-15mins
- Branding on all marketing collaterals/ materials
- Branding on all communication of the conference
- Branding on all event paid promotional campaigns
- Verbal recognition at the sponsored event
- Social media posts
- Table space at the venue
- 3 delegate registrations

Exclusive lanyard sponsor – EUR 5,000

- Named Lanyard Sponsor
- Branding on all marketing collaterals/ materials
- Branding on all communication of the conference
- Branding on all event paid promotional campaigns
- Verbal recognition at the sponsored event
- Social media posts
- 2 delegate registrations
- Lanyards to be provided by company

Exclusive Wifi sponsor – EUR 4,000

- Named Wifi Sponsor
- Tent cards with branding (to be placed on tables for the conference)
- Branding on all marketing collaterals/ materials
- Branding on all communication of the conference
- Branding on all event paid promotional campaigns
- Verbal recognition at the sponsored event
- Social media posts
- 2 delegate registrations

Coffee sponsor – EUR 3,000

- Named Coffee Sponsor
- Tent cards with branding (during coffee breaks on tables)
- Branding on all marketing collaterals/ materials
- Branding on all communication of the conference
- Branding on all event paid promotional campaigns
- Verbal recognition at the sponsored event
- Social media posts
- 2 delegate registrations

Exhibitor – USD 3,000

- Branding on all marketing collaterals/ materials
- Branding on all communication of the conference
- Branding on all event paid promotional campaigns
- Verbal recognition at the sponsored event
- Social media posts
- Table space at the venue
- 2 delegate registrations

15% early bird discount until October 28, 2022.*

For further information, contact: Surbhi Rakheja

Email: surbhi.rakheja@globalmasstransit.net

Mobile: +44 024 7698 0693

DELEGATE FEE

Delegates	Price before November 03, 2022	Price before November 17, 2022	Standard Fee
One Delegate	EUR 525	EUR 638	EUR 750
Two Delegates	EUR 875	EUR 1,063	EUR 1,250
Three Delegates	EUR 1,225	EUR 1,488	EUR 1,750
Four Delegates	EUR 1,575	EUR 1,913	EUR 2,250
Special Category*	EUR 250	EUR 300	EUR 350

**There is a special low fee for public transport authorities (PTAs), public transport operators (PTOs), government authorities, not-for-profits, academia and research institutions*

REGISTRATION FORM

☐ I would like to register for the conference

☐ Please send me more information

NAME/DESIGNATION _____ COMPANY _____

MAILING ADDRESS _____

PHONE _____ MOBILE _____

FAX _____ EMAIL _____

PAYMENT OPTIONS

1. Credit Card: To make payments by credit card, please visit: <https://bit.ly/3rlcxvj>

All credit card payments will be subject to standard credit card charges

2. Wire Transfer:

Beneficiary: India Infrastructure Publishing Private Limited*
Bank Name: The Hongkong and Shanghai Banking Corporation Ltd
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Bank Account No: 094179587002
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TERMS AND CONDITIONS

Payment Policy

- Full payment must be received prior to the conference in USD.

Cancellations

- Cancellation requests received in writing 30 days (November 01, 2022) before the date of the conference will be eligible for a full refund, minus a service charge/administration fee of EUR 150. We regret that no refunds will be made for any cancellation requests received less than 30 days prior to the conference.
- Substitutions/name changes are welcome at no extra charge. Please send these in writing at least two days prior to the conference.

Information Collected

- We collect the information you provide to us when you complete the registration form. The information includes name, company, and email address. By registering for this conference, you agree to be contacted by us with regard to other similar events or services of ours that may be of interest to you, and by the sponsor(s) of the conference for which you have registered

Disclaimer

- Global Mass Transit shall assume no liability whatsoever in case the conference is postponed or cancelled due to a fortuitous event or unforeseen occurrence that renders its organization impractical, illegal or impossible. For purpose of this clause, a fortuitous event shall include, but not be limited to: war, fire, labor strike, extreme weather or other emergency. Global Mass Transit's responsibility is limited to the return of registration fees only, and not any travel and accommodation costs.
- Please note that it may become necessary for reasons beyond the control of the organizers to make alterations to the content and timing of the program or speakers.

CONTACT US

For registration and sponsorship opportunities:

Surbhi Rakheja, Global Mass Transit Research
Email: surbhi.rakheja@globalmasstransit.net
Mobile: +44 024 7698 0693

For speaker participation opportunities:

Namrta Bangia, Global Mass Transit
Email: namrta.bangia@globalmasstransit.net
Mobile: +44 20 7097 5717

Niharika Pagore

Email: niharika.pagore@globalmasstransit.net
Phone: +44 121 318 5678

To register, email us at: registration@globalmasstransit.net or visit us at www.globalmasstransit.net