

JASPERS Networking Platform

Bus Fleet Decarbonisation

Date: **22nd and 29th March 2022, 14h00– 17.00**

Location: **Virtual meeting - WebEx Events**

The JASPERS Networking Platform was created to complement JASPERS project advisory operations by implementing knowledge sharing and capacity building activities, as well as fostering dissemination of good practices and exchange of experiences among all EU member states, pre-accession countries and other JASPERS Stakeholders.

More information is available at www.jaspersnetwork.org.

Description of the Webinars

Urban Bus Transport is a means to fight transport related GHG emission due to its contribution to provide an alternative to individual mobility in cities, based on most cases on the use of private cars. It is on the other itself a source of GHG emission.

These two webinar sessions aim at providing information on the concepts and investments required to de-carbonise bus fleets in urban areas and in managing operational and financial risks of the shift towards electric buses.

The sessions will cover an explanation of the different elements of an electric bus fleet project (fleet, charging infrastructure, power supply, battery sizing and specification, bus operations and timetabling, fleet maintenance etc.).

Experience from past or ongoing specific JASPERS assignments to support the renewal of urban bus fleets, namely in Greece, Poland, Portugal, Romania will be presented. This will be complemented by experience from transport operators, authorities and manufacturers.

Presentation and discussion in the two sessions will support interested project promoters in other EU countries to define and prepare electric bus fleet investment projects. It will support in defining the scope for consultancy engagements covering project preparation, it will help identify relevant stakeholders in such a project, and will support in meeting funding and financing requirements of the necessary urban mobility investment activities aimed at decarbonising urban transport.

The webinars will comprise a mixture of technical methodologies, case studies and organisational discussions relevant to fleet replacement with electric buses, including:

- Key considerations in defining appropriate modernisation strategies;
- Key stakeholders in a fleet renewal project, as well as relevant considerations for each, including the link with the Urban Mobility Plan (SUMP);
- Overview of route mapping to calculate battery size and charging strategy, and to verify scheduling;
- Experience with Battery Electric Vehicles and Battery Electric Trolleybus, and how the design requirements for each are impacted;
- Experience in the development of a fleet renewal and modernisation plan, specifically in reference to the use of Electric Vehicles (BE Trolleybus and BE Vehicles);
- E-bus impact on O&M, financing/procurement and the role of Public Service Contracts;
- A discussion of the experience in joint procurement of buses at regional or national level involving several operators.
- Consideration on how to handle correctly State Aid requirements in the context of project preparation

The two separate sessions are interlinked and participants are encouraged to participate in both.

The webinar will be held in English and participants will have the chance to interact with the speakers and join Q&A discussions.

Agenda – 22 March 2022

Objectives, EU Funding, conceptual approach, market development

14:00-14h15	Opening of the webinar Brief introduction on JASPERS activities - Luis Hebrero, Head of JASPERS Coordination and Capacity Building Division Structure of the event and housekeeping rules, EIB/JASPERS, Jochen Schneider, Webinar moderator, Urban Advisory Division
14:15 – 15:15	EU requirements and JASPERS' approach EC Objectives, legislative framework, funding sources and initial results (Green Deal, CVD, ESIF, CEF, RRF etc): DG MOVE, B4, Dario Dubolino, Key components of a bus fleet modernisation project, and relevant considerations when developing the technical solution for a city: EIB/JASPERS, Alan O'Brien Experience in joint procurement of buses at regional or national level involving several operators: EIB/JASPERS, Mihai Grecu State Aid aspects of the bus fleet renewal, EIB/JASPERS, Christos Peolidis
15:15 – 15:45	Market Development Development of Depot-charged, Opportunity-charged and In-Motion-charged Battery or Hydrogen Electric Vehicles markets; Role of Hybrid Buses: E-Bus Competence Center, Marcin Seredynski Solaris, Mateusz Figaszewski, E-mobility Development and Market Intelligence Director
15:45 – 16:00	Coffee Break
16:00 – 16:45	EIB financing, ELENA advice EIB's appraisal and financing of zero-emission buses: EIB, Caroline Lemoine Klagenfurt/AT: Process to define the decarbonisation strategy. Economic analysis results and influence of funding programmes on the project schedule: Alejandro Santis, project manager Klagenfurt Public Transport Company Helsinki/FI: Towards a zero emission bus fleet: Uusi-Rauva Ville, Helsinki Public Transport Authority, HSL
16:50 – 17:00	Conclusions, Discussion EIB/JASPERS, Jochen Schneider, Urban Advisory Division

Agenda – 29 March 2022

Decarbonisation of Bus fleets – from concept to implementation

14:00-14h15	Brief Introduction and lessons from the first part on 22.3.2022 EIB/JASPERS, Jochen Schneider, Urban Advisory Division
14:15 – 15:15	JASPERS assignments and experience of transport authorities Development of a multi-annual decarbonisation and modernisation plan, specifically in reference to the use of Electric Buses – examples from JASPERS assignments at urban and regional level: Warsaw/PL: Katarzyna Kwiatkowska, Municipal Transport Company, MZA Athens/GR: Nellie Tzivelou, Athens Public Transport Authority; Alan O'Brien, EIB/JASPERS Prague/CZ, Bus electrification strategy: Anton Poprik, Head of Strategy department, Prague Public Transport Company Brasov/RO: Experience with step change transformation of an old diesel bus fleet into an e-bus fleet: Catalin Frangulea, Head of the Public Transport Authority
15:15 – 15:30	Coffee Break
15:30 – 16:45	Revival of trolley bus systems Revival of Trolleybus systems and development of IMC networks: UITP Trolleybus committee: Jiri Kohout, Plzen Public Transport company Bratislava/SK: Decarbonisation through revitalisation of the trolley bus system and other measures: Michal Dekánek, Bratislava Public Transport company; Neri di Volo, EIB/JASPERS What should an e-bus be able to? Development of ToRs and procurement experience, overview from the perspective of the UITP Clean Bus Europe platform, Aida Abdulah, Senior Project Manager - Knowledge & Innovation
16:45 – 17:00	Conclusions, Discussion JASPERS technical support to delivering fleet renewal investments EIB/JASPERS, Gerry Muscat, Head of the Urban Advisory Division