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## Economic Commission for Europe

### Inland Transport Committee

#### Working Party on Transport Trends and Economics

##### Thirty-fifth session

Geneva, 5–7 September 2022

Item 2 of the provisional agenda

##### **Inter-regional workshop on electrification of urban mobility – opportunities and challenges for transport, energy and spatial planning**

### **Inter-regional Workshop on Electrification of Mobility - Challenges and opportunities for transport, energy, and spatial planning**

5 September 2022, 10:15 – 18:00 CET – Geneva, Palais des Nations, Room XXI

#### **Submitted by the secretariat**

## **I. Introduction**

This inter-regional workshop on “**Electrification of mobility, including at urban level – challenges and opportunities for transport, energy and spatial planning**” is held as part of the WP.5 cluster of work on `sustainable urban mobility, public transport, and cycling` and as recommended by WP.5 at its thirty-fourth session in 2021 inviting the secretariat to continue holding and facilitating inter-regional transport consultations on targeted topics of interest.

At UNECE, the workshop is co-organized by the [Sustainable Transport Division](#), the [Sustainable Energy Division](#) and the [Housing and Land Management Section](#). The workshop, which is gathering interested stakeholders, including city and urban transport authorities, grid managers as well as spatial planners, Ministry of Transport/ Mobility experts, NGOs, and academia from around the world, is supported by the five United Nations regional commissions (ECE, ESCAP, ESCWA, ECA and ECLAC).

Inter alia, the workshop is expected to provide further inputs to document ECE/TRANS/WP.5/2022/2 entitled “[Taking stock of new trends towards electric vehicle charging infrastructure](#)”.

## **II. Objectives**

The workshop is expected to provide a platform for participants to:

- Exchange views on trends, opportunities, and challenges in the field of electrification of road vehicles at urban, suburban, and regional levels.

- Discuss the policy and infrastructure needs that these developments create for transport, energy, and spatial planning, including in an urban environment.
- Propose ideas and identify next steps for needed action in this field.

## II. Draft programme

### 10:15-10:45 - Introductory session

**Moderator:** Mrs. Els de Wit, Chair, Working Party on Transport Trends and Economics (WP.5), Netherlands

- **Mr. Roel Janssens**, Secretary of the Working Party on Transport Trends and Economics (WP.5), Sustainable Transport Division, UNECE
- **Mrs. Iva Brkic**, Secretary of the Group of Experts on Cleaner Electricity Systems, Sustainable Energy Division, UNECE
- **Mrs. Gulnara Roll**, Regional Adviser, Housing and Land Management, UNECE

### 10:45-12:00 – Session I – Road vehicle e-mobility solutions and their interaction with the grid – good practice examples at city and regional levels

**Moderator:** Mr. Madan Bahdu Regmi, Chief of Section, United Nations Economic and Social Commission for Asia and the Pacific (ESCAP)

#### Selected topics:

- Examples of electrification of road based public transport at urban, suburban, and regional levels and its impact on environment, health, and quality of life.
- Impact of increased e-mobility of road vehicles and its consequences for and interaction with the electricity grid.
- Creating conducive policies on accessibility to and affordability of charging at public Electric Vehicle Supply Equipment (EVSE) and its integration in the electricity grid.

#### Speakers:

- **Dr. Yossapong Laonual**, Head of Mobility and Vehicle Technology Research Center (MOVE), King Mongkut's University of Technology Thonburi (KMUTT), Thailand
- **Mr. Pedro Gomes**, Project Manager & Coordinator, Clean Vehicles & Air Quality, POLIS, European Cities and Regions for Transport Innovation
- **Mr. Olivier Augé**, Head of Engineering, Geneva Public Transport (TPG), Switzerland

### 12:00 – 13:00 – SPECIAL EVENT – Launch of ITC eLearning Platform

### 13:00 – 15:00 – Lunch break

### 15:00-15:30 – Session I – *Continued*

**Moderator:** Mr. Roel Janssens, WP.5 Secretary, UNECE Sustainable Transport Division

- **Mr. Francois Cuenot**, Secretary of the Working Party on Pollution and Energy, Sustainable Transport Division and **Mr. Igor Litvinyuk**, Secretary of the Group of Experts on Energy Efficiency, Sustainable Energy Division, UNECE
- **Mr. Dmitry Shiyan**, Deputy Director, International Cooperation Department, Ministry of Transport of the Russian Federation
- **Mr. Janvier Twagirimana**, Transport External Links & Donor Coordinator, Ministry of Infrastructure of Rwanda

**15:30 – 17:00 - Session II – Laying the regulatory/policy groundwork for achieving a swift transition to electrification of road vehicles at urban and regional levels**

**Moderator:** Mrs. Camila Gramkow, United Nations Economic Commission for Latin America, and the Caribbean (ECLAC)

**Selected topics:**

- Examples of sound regulatory frameworks surrounding e-mobility of road vehicles.
- Strategies, policies, and practices aimed at accelerating the transition to e-mobility in road transport.
- Policies and regulations enabling innovation for urban e-mobility in city infrastructure and public transport.

**Speakers:**

- **Mrs. Baerte de Brey**, Chief International Officer and **Mrs. Lonneke Driessen**, Director Standardization, eLaad.NL, Netherlands
- **Ms. Olga Demianenko**, Director, Department for Cooperation with International Agencies and Financial Institutions at the Kharkiv City Council, Ukraine
- **Mr. Mathieu Wijnen**, Project Leader, e-Mobility Amsterdam
- **Mr. Carlos Mateo**, Director of Mobility, City of Madrid
- **Mrs. Susana Morales**, Director of Mobility Planning, City of Bogota, Colombia

**17:00-17:30 – Session III – E-mobility solutions and requirements for urban and long-distance road freight transport**

**Moderator:** Mr. Roel Janssens, WP.5 Secretary, UNECE Sustainable Transport Division

**Selected topics:**

- Central freight consolidation centres as a possible gateway to urban and long-distance freight transport electrification.
- Examples of EV smart charging solutions in cities and regions (including wireless electric vehicle charging/ inductive charging; pop-up pavement chargers; innovative use of existing roadside infrastructure and “charging on the go”).
- General trends and developments for commercial electrical vehicles (EVs) including eLight Duty Vehicles (eLDVs) and eHeavy Duty Vehicles (eHDVs) and their charging infrastructure.

**Speakers:**

- **Mr. Sam S. Starr**, Strategic Adviser, Sustainable Logistics - Mobis, COOP Carbone, Canada
- **Mr. Hans Säll**, Marketing & Business development Manager, NCC Infrastructure, Sweden
- **Mr. Tomas Suhanyi**, FIATA Working Group Road Chair, Slovakia

**17:30-18:00 – Follow-up and next steps**

- Tour-de-Table participants
- Representatives of UNECE Sustainable Transport, Sustainable Energy and Housing and Land Management

**18:00 – End of workshop**