



Expert Group Meeting “Smart Mobility for Smart Cities”

**CONCEPT NOTE
4-5 SEPTEMBER 2019**

**VIENNA INTERNATIONAL CENTRE (VIC)
CONFERENCE ROOM C6
7TH FLOOR, C-BUILDING**

Background and rationale

In 2017, the transportation sector contributed to 24% of the direct CO₂ emissions globally, with road vehicles (cars, trucks, buses and two-wheelers) accounting for 77% of the emissions attributable to the transport sector. To meet the objectives of the Paris Agreement and the 2030 development agenda, direct transport emissions must peak around 2020 and subsequently decrease by over 9% by 2030.

Addressing GHG emissions from the transport sector is also a critical challenge at the national and subnational level. Currently 55% of the global population is living in urban areas, and this percentage is expected to reach 68% by 2050, with the overwhelming majority of this growth happening in Asia and Africa. Proper planning and policy at the local level is necessary to enable the adoption of low carbon transport vehicles and infrastructure that supports their use.

By December 2018, the global sale of electric vehicles was approximately 2.1% of global vehicle sales with about 5 million cars now in the market in various countries. This number must reach at least 30% by 2030 and with an 80% adoption rate by 2050 in order to ensure that the transport sector contributes to the desired decarbonization of the global economy. Coupled with new, low-carbon sources of renewable energy, electric vehicles (EVs) are both efficient, low-carbon, and can improve grid reliability.

While piloting and scale up of smart mobility solutions is well underway, many policy and technology challenges need to be overcome for a mass scale deployment. These include urban and transport planning, energy supply and distribution infrastructure, and strengthening of automotive sector value chain to adopt integrated 4.0 technologies.

Within the sixth replenishment cycle of the Global Environment Facility, UNIDO has implemented programmes promoting electric mobility in China, South Africa and Malaysia. Over the past year, the demand for similar programmes from other member states has been increasing.

Objectives

In order to address the growing member interest and support appropriate country-level initiatives, the Expert Group Meeting will aim to:

1. Take stock of the state of the electric mobility market and the e-vehicle value chains, share best practices that are proving to be effective in the adoption of electric vehicles in various countries and outline the challenges preventing their uptake.
2. Discuss the latest trends that are shaping the future of electric mobility today i.e. vehicle electrification, automation and shared mobility.
3. Examine the lessons learned from the implementation of the UNIDO programmes in South Africa, China and Malaysia.
4. Raise awareness on the topic of electric mobility amongst countries looking to implement new programmes.
5. Develop key recommendations for future UNIDO work in this area.



EGM outcomes

The Expert Group Meeting will enable discussions and dialogue on means to accelerate the deployment of electric mobility. The focus of the meeting will include topics related to the thematic areas of policy, technology and infrastructure as well as business models to support the deployment of infrastructure and vehicles. The constructive discussion of the thematic issues will lead to the identification of key elements that will enable UNIDO and the countries concerned to prepare strategies and programmes on electric mobility.

Meeting Format

On the first day of the Expert Group Meeting, three panels of experts will present the state of the market, policy best practices and the infrastructure, vehicle related technologies and business models. The first day will also examine three case studies including China, Malaysia and South Africa. The second day's panel will be devoted to discussions on financing electric mobility and working groups set up and discussions, and provide recommendations for the design of future programmes.

Working language

Presentations, discussions and deliberations during the EGM will be conducted in English.

Attendance and confirmation of participation

Invited participants are kindly requested to confirm their participation by e-mail to Ms. Emma Sahakian. The full name, affiliation, title and contact address, email and phone number of the participant should be clearly indicated in the confirmation message.

Contact persons

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