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## **Terms of Reference of the Informal Working Group on Electric Vehicle (EV) / Hydrogen Fuel Cell Vehicles (HFCV) Retrofit Systems (IWG on EV/HFCV Retrofit Systems)**

### **A. Preamble**

At its the 195th session, the World Forum endorsed the creation of a new IWG on EV/HFCV Retrofit under GRPE ([ECE/TRANS/WP.29/1184, para.13]).

The activities referred to in this document are intrinsically linked to the 1958, 1998 and 1997 Agreements. Instruments developed under each of the 3 Agreements will be considered when evaluating the needs for minimum performance requirements of the converted vehicle and its retrofit system. Existing national regulatory frameworks are also expected to be considered when developing a globally harmonized instrument.

### **B. Draft Terms of Reference of the Informal Working Group on Electric Vehicle / Hydrogen Fuel Cell Vehicles Retrofit Systems**

#### **1. Introduction**

1. Electric Vehicle (EV) / Hydrogen Fuel Cell Vehicles (HFCV) retrofit systems are considered to be a viable solution to accelerate the decarbonization of the vehicle fleet by removing conventional propulsion systems and replacing it with zero- / low-tailpipe emission propulsion systems.

2. This vehicle conversion operation has deep consequences on key design and operational aspects of the converted vehicles, both on the safety and environmental sides, and care must be taken to ensure that converted vehicles maintain a minimum level of safety and environmental protection.

3. Globally harmonized regulatory framework would ensure minimum requirements for retrofit systems, provide robust performance requirements for converted vehicles and support the deployment of retrofit systems that could be installed on many vehicles in the countries that adopted the requirements developed.

#### **2. Working items**

##### **(a) Develop a new [UN Regulation/UN GTR] for EV retrofit systems and hydrogen fuel cell powertrains for [light- and heavy-duty] vehicles**

4. [text to be developed].

##### **(b) Assess the feasibility to widen the developed [UN Regulation/UN GTR] to other vehicle categories, focusing on [light duty vehicles, powered two-, three- and four-wheelers, trailers]**

5. [text to be developed].

#### **3. Timeline**

6. The timeline for the tasks defined in Chapter 2. are expected to be the following

(a). Task (a) to be initiated in [May 2025] and finalized by [End 2026]

- (b). Task (b) to be initiated [Early 2027] and finalized by [Mid 2027]
- 7. The mandate of the group is granted until [the end of 2027], subject to amendment and/or renewal.

#### **4. Rules of procedure**

- 8. The following rules of procedure describe the functioning principles of the IWG:
    - (a) Following the Rules of Procedure of WP.29. Chapter 1, Rule 1, the IWG is open to all experts from any country or organization of WP.29 and its subsidiary bodies.
    - (b) Chairs from France and Spain will manage the IWG with the support of a Secretary from CITA .
    - (c) The working language of the IWG will be English.
    - (d) An agenda and related documents will be circulated to all members of the IWG in advance of all scheduled meetings.
    - (e) All documents and/or proposals shall be submitted to the secretary of the IWG in a suitable electronic format, preferably in line with the UNECE guidelines in advance of the meetings.
    - (f) All documents shall be distributed in digital format. The documents will be posted on a the dedicated space on the UNECE wiki, available here:  
[to be filled]
    - (g) The IWG may refuse to discuss any item or proposal which has not been circulated 5 working days in advance of the scheduled meetings.
    - (h) Meetings of the IWG shall be held in relation with GRPE and its sessions schedule. Additional meetings will be organized upon request.
    - (i) The work process will be developed by consensus. When consensus cannot be reached, the Chairs of the IWG shall present the different points of view of the IWG to GRPE. The Chairs may seek guidance from GRPE and WP.29 as appropriate.
    - (j) The progress of the IWG will be routinely reported to GRPE and/or WP.29 orally or with an informal document by the Chairs, as appropriate.
    - (k) Draft meeting minutes will be available after each meeting, and presented for approval at the following one.
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