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**Economic Commission for Europe**  
**Inland Transport Committee**  
**World Forum for Harmonization of Vehicle Regulations**  
**Working Party on Pollution and Energy**  
**Eighty-eighth session**  
 Geneva, 12–13 April 2023

**Report of the Working Party on Pollution and Energy  
 (GRPE) on its eighty-eighth session**

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## **I. Attendance**

1. The Working Party on Pollution and Energy (GRPE) held its eighty-eighth session from 12 to 13 April 2023, with André Rijnders (Netherlands) as Chair and Duncan Kay (United Kingdom of Great Britain and Northern Ireland) as Vice-Chair. Experts from the following countries participated in the work following Rule 1(a) of the Rules of Procedure of the World Forum for Harmonization of Vehicle Regulations (WP.29) (TRANS/WP.29/690, as amended): China, France, Italy, Japan, Netherlands, Poland, Republic of Korea, South Africa, Spain, Sweden, Switzerland, United Kingdom of Great Britain and Northern Ireland (UK). Experts from the European Commission (EC) also participated. Experts from the following non-governmental organizations (NGOs) took part in the session: Association for Emissions Control by Catalyst (AECC), European Association for Electromobility (AVERE), European Association of Automobile Suppliers (CLEPA/MEMA/JAPIA), European Association of Internal Combustion Engine Manufacturers (EUROMOT), European Natural Gas Vehicle Association (NGVA Europe), International Council on Clean Transportation (ICCT), International Motorcycle Manufacturers Association (IMMA), International Motor Vehicle Inspection Committee (CITA), and International Organization of Motor Vehicle Manufacturers (OICA).

## **II. Adoption of the agenda (agenda item 1)**

*Documentation:* ECE/TRANS/WP.29/GRPE/2023/14/Rev.1

2. Mr. Rijnders, Chair of GRPE, opened the meeting and welcomed the participants.
3. GRPE adopted the provisional agenda of the eighty-eighth session (ECE/TRANS/WP.29/GRPE/2023/14/Rev.1).
4. Upon a proposal from the Chair, GRPE agreed to give the floor to the co-chairs of the Informal Working Group (IWG) on Automotive-Life Cycle Assessment (A-LCA).

## **III. Automotive - Life Cycle Assessment (A- LCA) (agenda item 2)**

*Documentation:* Informal document A-LCA-06-16

5. GRPE endorsed the draft minutes of the sixth session of the IWG on A-LCA (A-LCA-06-16) held in conjunction with the eighty-eighth session of GRPE.

## **IV. Any other business (agenda item 3)**

6. GRPE had not received any new proposals for discussion under this agenda item.

## **V. Provisional agenda for the next session**

### **A. Next GRPE session**

7. The next GRPE session, including IWG meetings, is scheduled to be held from Tuesday 30 May 2023 starting at 2.30 p.m. to Friday 2 June 2023 12.30 p.m. Interpretation services would be provided.

### **B. Provisional agenda for the next proper GRPE session**

8. GRPE agreed on the following provisional agenda for its next session:
  1. Adoption of the agenda.

2. Report on the last sessions of the World Forum for Harmonization of Vehicle Regulations (WP.29).
3. Light vehicles:
  - (a) UN Regulations Nos. 68 (Measurement of the maximum speed, including electric vehicles), 83 (Emissions of M<sub>1</sub> and N<sub>1</sub> vehicles), 101 (CO<sub>2</sub> emissions/fuel consumption), 103 (Replacement pollution control devices) and 154 (Worldwide harmonized Light vehicles Test Procedures (WLTP));
  - (b) UN Global Technical Regulations Nos. 15 (Worldwide harmonized Light vehicles Test Procedures (WLTP)) and 19 (Evaporative emission test procedure for the Worldwide harmonized Light vehicle Test Procedure (WLTP EVAP));
  - (c) Worldwide harmonized Real Driving Emissions test procedure.
4. Heavy duty vehicles:
  - (a) UN Regulations Nos. 49 (Emissions of compression ignition and positive ignition (LPG and CNG) engines) and 132 (Retrofit Emissions Control devices (REC));
  - (b) UN Global Technical Regulations Nos. 4 (World-wide harmonized Heavy Duty Certification procedure (WHDC)), 5 (World-Wide harmonized Heavy Duty On-Board Diagnostic systems (WWH-OBD)) and 10 (Off-Cycle Emissions (OCE));
  - (c) Worldwide provisions for Heavy Duty vehicles Fuel Economy.
5. UN Regulations Nos. 24 (Visible pollutants, measurement of power of C.I. engines (Diesel smoke)), 85 (Measurement of the net power), 115 (LPG and CNG retrofit systems), 133 (Recyclability of motor vehicles) and 143 (Heavy Duty Dual-Fuel Engine Retrofit Systems (HDDF-ERS)).
6. Agricultural and forestry tractors, non-road mobile machinery:
  - (a) UN Regulations Nos. 96 (Diesel emission (agricultural tractors)) and 120 (Net power of tractors and non-road mobile machinery);
  - (b) UN Global Technical Regulation No. 11 (Non-road mobile machinery engines).
7. Particle Measurement Programme (PMP).
8. Motorcycles and mopeds:
  - (a) UN Regulations Nos. 40 (Emission of gaseous pollutants by motorcycles) and 47 (Emission of gaseous pollutants of mopeds);
  - (b) UN Global Technical Regulations Nos. 2 (World-wide Motorcycle emissions Test Cycle (WMTC)), 17 (Crankcase and evaporative emissions of L-category vehicles), 18 (On-Board Diagnostic (OBD) systems for L-category vehicles) and 23 (Durability);
  - (c) Environmental and Propulsion Performance Requirements (EPPR) for L-category vehicles.
9. Electric Vehicles and the Environment (EVE);
  - (a) UN GTR No. 21 (DEVP) and 22 on (In-Vehicle Battery Durability);
  - (b) Other activities of IWG on EVE.
10. Mutual Resolution No. 2 (M.R.2).
11. International Whole Vehicle Type Approval (IWVTA).
12. Vehicle Interior Air Quality (VIAQ).
13. Lifetime compliance.

14. Automotive Life Cycle Assessment (A-LCA).
15. Priority topics for GRPE activities.
16. Election of Officers.
17. Any other business.

**C. Informal meetings scheduled to be held in conjunction with the next GRPE session**

9. The following informal meetings were scheduled to be held, subject to confirmation:

<i>Date</i>	<i>Time</i>	<i>Group</i>	<i>Acronym</i>
30 May 2023	9:30 a.m. - 12:30 p.m.	Electric Vehicles and the Environment	EVE
	2:30 p.m. - 5:30 p.m.	Environmental and Propulsion Performance Requirements of L-category vehicles	EPPR
	2:30 p.m. - 5:30 p.m.	Automotive Life Cycle Assessment	A-LCA

10. The agendas of these meetings will be prepared by the respective Technical Secretaries and distributed to the members of each group prior to each meeting.

## **Annex I**

### **List of informal documents (GRPE-88- ) distributed without an official symbol before and during the session**

No informal documents have been circulated for this session.

**Annex II****Informal meetings held in conjunction with the GRPE session**

<i>Date</i>	<i>Time</i>	<i>Group</i>	<i>Acronym</i>
12 April 2023	9.30 a.m. – 12.30 p.m.	Environmental and Propulsion Performance Requirements of L-category vehicles	EPPR

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## Annex III

### List of GRPE informal working groups, task forces and subgroups

<i>Name (Acronym) (Status)</i>	<i>Chair or Co-Chairs</i>	<i>Secretaries</i>	<i>End of mandate</i>
Environmental and Propulsion Performance Requirements of L-category vehicles (EPPR) (group)	Niels den Ouden  Joseph Mashele	Edwin Bastiaensen	January 2025
Electric Vehicles and the Environment (EVE) (group)	Michael Olechiw  Pangiota Dilara  Chen Chunmei (Vice-Chair)  Hisakazu Suzuki (Vice-Chair)	Kendelle Anstey	January 2024
Particle Measurement Programme (PMP) (group)	Barouch Giechaskiel	Rainer Vogt	June 2023
Vehicle Interior Air Quality (VIAQ) (group)	Andrey Kozlov  Inji Park	Andreas Wehrmeier	November 2025
Automotive Life Cycle Assessment (A-LCA) (group)	Tetsuya Niikuni,  Charyung Kim	Noriyuki Ichikawa  Hans Nuglisch  Romain Denayer	June 2025