

# *In-vehicle battery durability e-HDVs*

## *GRPE-92-43e-amd1*

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# e-HDV GTR: GRPE-92-43 updating the working document GRPE/2025/07

- The new draft HDV GTR has been presented and adopted during the GRPE 92<sup>nd</sup> held on March 25-28<sup>th</sup>, 2025. It will be submitted to the WP.29 November 2025 session.
- **The GTR can be downloaded at:** [Proposal for a new UN GTR on In-vehicle Battery Durability for Electrified Heavy Duty Vehicles](#)

# e-HDVs GRPE-92-43-amd1 - phase 2

- During EVE IWG 83<sup>rd</sup> and the drafting session held on March 18<sup>th</sup>, 2025 it was agreed to postpone to phase 2 some items:

- **Annex 3 1.1 Vehicle selection**

- EVE 83 agreed to leave the regional regulation provision, but request from Japan to revise this for GRPE March 2026

- **3. Definitions**

- To address in phase 2 the new definitions

- **4. Abbreviations**

- e-PTO, Transmission mounted PTO ...as needed to be added or revised

- **6.5. Part C: Verification of reported virtual distance**

- [Reserved]

- **Annex 1 Vehicle Survey**

- Few items to be reviewed as needed

- **Annex 2 Values to be read from vehicles**

- Proposal to replace average temperature with maximum and minimum temperature
  - Considering adding 1. Battery driven odometer [km] , 2. Production date of the battery pack

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- During EVE IWG 83<sup>rd</sup> and the drafting session held on March 18<sup>th</sup>, 2025 it was agreed to postpone to phase 2 some items:

- **Annex 3 Test procedures for the UBE determination and performance parameters**

- 1.1 Vehicle selection
- Method 2 Table A3/5 Specifications of bidirectional power supply system. A table prescribing the specifications for the bidirectional power supply system has been added in Method 2 with the agreement to revise it in Phase 2, in particular in relation to the altitude requirements and related evidence.
- Test Methods 1a,1b, 2, Alternative boundary conditions and break-off criterion to be revised as needed
- 3. Performance parameters Agreement to remove the correction for the UBE of HD-OVC-HEVs in phase 1 due to lack of data

- **Annex 4 Battery Energy based (SOCE) minimum performance requirements (optional annex)**

- A view was taken that the energy-throughput (total energy in kWh discharged from the battery) will be monitored during phase 1, in view of a future revision of the lifetime thresholds set over years and kilometres
- The collection and monitoring of field data is recognised to be of key importance for the future revision of the MPRs and metrics
- Consider the need of further segmentation of the MPR thresholds by vehicle category/application
- Consider the alignment of MPR proposal among regions as appropriated

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➤ **Annex 5 Power to operate the vehicle auxiliary systems/accessory loads**

- To revise table Table A5/1 Vehicle auxiliary systems/accessory loads typical default power values

# Thank you

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