# Table 4

**Subjects under consideration by the Working Party on Pollution and Energy (GRPE)**

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| *GRPE* |
| *Priority* | *Justification/Background information*  | *References* | *Allocations/IWGs/TFs* | *Timeline* | *Chair/sponsor(s)* | *Comments* |
| Improvement of exhaust emissions requirements to ensure real drive performance on the road | Revise technical requirements to allow technological progress, ensure technological neutrality by introducing consistent and long-lasting performance-based emissions measures, at type approval, in use and potentially over the lifetime of the vehicle.   | UNR on RDE | IWG on RDE | June 2020 | EC-JP-KR | Adopted in GRPE June 2020 |
| UN GTR on RDE | IWG on RDE | June 2023 (Phase 2) | EC-JP-KR | Directly to Phase 2 |
| 08 Series to UN Regulation No. 83 | GRPE | June 2022 | EC | Delayed  |
| ~~Amendment to UN Regulation No. 49 to reflect latest regulatory evolution~~ | ~~GRPE~~ | ~~January 2021~~ | ~~EC~~ | ~~Submitted earlier~~  |
| **Life Cycle Assessment** | **Quantify and monitor progress towards Carbon neutrality of road transport by 2050. Internationally-harmonized procedure to measure carbon footprint of different technologies for fuels and vehicles from production to use and disposal.** | **[tbd]** | **[IWG on LCA]** | **[2025]** | **[tbd]** | **to be discussed with GRPE in January 2022** |
| New propulsion energy | Develop technical regulation to ensure environmentally-friendly and level-playing market introduction of new form of propulsion energy, such as hydrogen and electricity. | ~~UN GTR No. 21 on DEVP~~ | ~~IWG on EVE~~ | ~~June 2020~~ | ~~US-CAN~~ | ~~Adopted by WP.29 November 2020~~ |
| UN GTR on in Vehicle Battery durability | IWG on EVE | January 2022- June 2023 | US-CAN, China, EC, Japan | 1st version in GRPE Nov 2021 |
| Heavy Duty Hybrids  | GRPE | [2022] | [tbd] |  |
| Particulate emissions:Provisions to limit airborne particulates from different sources | Sub-23 nm exhaust particles heavy-duty applications, in the laboratory and on the road | Resolution on HDV application  | IWG on PMP | January 2022 | EC | Development on-going for heavy duty application |
| Brake emissions | New UN GTR | IWG on PMP | January 2023 | EC |  |
| ~~Tyre wear emissions~~ | ~~tbd~~ | ~~IWG on PMP / GRPE~~ | ~~[June 2023]~~  | ~~[EC]~~ |  |