Priority topics for GRPE activities

Note by the Chair and secretariat

The text reproduced below was prepared by the Chair of GRPE and the secretariat to initiate a reflection by GRPE and WP.29 stakeholders on the future activities that GRPE could sustain in the short, medium and long terms[[1]](#footnote-2). It is expected to be submitted to the World Forum for Harmonization of Vehicle Regulations (WP.29) as informal document for discussion at its 178th session in June 2019. It is also shared for discussion with the Working Party on Pollution and Energy (GRPE) for review at its 79th session.

Proposal for the definition of WP.29 work priorities related to pollution and energy topics covered by GRPE

1. The tables below are focusing on pollution and energy. This document does not address the delivery mechanisms under one or more Agreements managed by WP.29. GRPE is committed to deliver technical provisions suitable for all Contracting Parties.

2. Table 1 below is containing the on-going work occurring at GRPE and its IWGs.

3. Table 2 contains medium and longer term proposed work priorities for WP.29.

# Table 1

# **On-going work activities related to pollution and energy**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Title* | *Deadline for working document(s)* | *Leads* | *Deliverables* | *Comments* |
| Global Real Driving Emissions (RDE) | Q4 2020 | IWG on RDE | Target UN GTR as working document Q4 2020. |  |
| Worldwide light duty test procedure (WLTP) | Q2 2020  Q1 2020 | IWG on WLTP | Many UN GTR activities on going (Q2 2020): - Low temperature test - OBD - other pending items  as part of transposition to UN Regulation on WLTP (Q1 2020): - Conformity of Production - Reference Fuel - Emission Limits - Durability | IWG Mandate to be extended to June 2020 |
| Determination of Electrified Vehicle Power (DEVP) | Q2 2020 ? | IWG on EVE | UN GTR work under development | Delays expected with new timeline to be announced.  IWG Mandate to be extended to June 2021 ? |
| Battery Durability | ? | IWG on EVE | What deliverables (UNR / UN GTR?) | Way forward still to be decided.  Some CPs requested regulatory provisions. |
| Sub-23 nm exhaust particles | Q2 2020 | IWG on PMP | What deliverables (UNR / UN GTR?) | Timeline shortened to fit post Euro6/VI EU requirements.  IWG Mandate to be extended to June 2021 ? |
| Brake emissions | Q2 2021 | IWG on PMP | What deliverables (UNR / UN GTR?) | About half of the work concluded. Work progress according to schedule |
| Method for stating energy consumption / emissions from EVs | tbd | IWG on EVE | What deliverables (UNR / UN GTR?) | Common project proposal with the Group of Expert on Energy Efficiency (GEEE) from the UNECE Sustainable Energy Division under development. |
| OBD-2 for L Category vehicles | Q1 2020 | IWG on EPPR |  | UN GTR work under development. Working document for January 2020 GRPE session |
| Revision on M.R.3 concerning VIAQ | Q2 2020 | IWG on VIAQ | Mutual Resolution revision |  |

# Table 2

# **Potential future activities related to pollution and energy**

| *Title* | *Time horizon* | *Leads* | *Objectives* |
| --- | --- | --- | --- |
| Lifetime compliance: In-Service Conformity, in use compliance and beyond | Medium term | GRPE /  IWG on PTI | Ensure adequate and long-lasting environmental performance of vehicles: - In-Service Conformity / durability provisions - PTI tests - On-Board Measurements and monitoring - Tampering prevention (e.g. NOx emulator, DPF removal…) |
| Lifecycle emissions | Medium term | GRPE | Tackling overall emissions from vehicles manufacture and its use: - WTW emissions of energy to power the vehicles, - Emissions during production of vehicles - Recyclability / Emissions during disposal of the vehicle |
| Non-regulated Emissions | Medium term | GRPE | Include non-regulated pollutant into emissions regulations, if appropriate |
| Technology-neutral test procedure and emission limits | Medium term | GRPE | Harmonize test procedures and emission limits for all fuel types |
| Tyre wear emissions | Medium term | IWG on PMP / GRBP ? | Develop methodology to characterize (PN, other?) emissions from tyre wear |
| Powertrain definitions | Medium term | New IWG / GRPE ? | Develop a more regular and systematic framework for the update of Mutual Resolution No. 2 Containing Vehicle Propulsion System Definitions |
| Replacement catalyst | Medium term | GRPE | Amendments to UN Regulation No. 103 |
| Fuel economy standard measurement methodology | Medium / Long term | New IWG / GRPE? | - Harmonization of various existing methodology for fuel economy standard approaches  1 – for heavy duty vehicles 2 – for light duty vehicles 3 – for other vehicle categories  - Harmonization of the approaches for real life fuel economy monitoring |
| Consumer Information | Long term | GRPE | Labelling of energy consumption / GHG and pollutants.  e.g. GreenNCAP, and others |
| Connected vehicles and the environment | Long term | GRPE / GRVA | Using vehicle connectivity to minimize environmental impact of vehicles |
| Simplification emissions regulations | Long term | GRPE | Legislative improvement and increased efficiency for approval, CoP, ISC tests to simplify test protocols to improve the deployment and enforcement for all contracting parties. |

1. Short term indicates that activities are on-going at GRPE and its IWGs at the present time. Medium terms activities have not yet started at GRPE but will be of crucial importance in the coming years. Long term activities are emerging issues that are expected to be of relevance and potentially high priority within the next decade. [↑](#footnote-ref-2)