

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*. 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.

* 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.

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

<i>Title</i>	<i>Deadline for working document(s)</i>	<i>Leads</i>	<i>Deliverables</i>	<i>Comments</i>
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 (DEVF)	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

<i>Title</i>	<i>Time horizon</i>	<i>Leads</i>	<i>Objectives</i>
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.