

**UN/ECE GRPE  
HD Hybrids Informal group  
Chairman's View**

**Geneva, 10 January 2011**

# From Terms of Reference of the Informal Group on HDH

- The objective of the informal group on HDH is to establish an amendment to Global Technical Regulation (gtr) no 4 (WHDC) with respect to pollutant emissions and CO<sub>2</sub> emissions from heavy duty hybrids under the 1998 Global Agreement.
- The informal group will also consider if the scope of (gtr) no 4 is appropriate or if a separate gtr should be considered.
- The group shall report to GRPE on its conclusions on this matter at the 61<sup>st</sup> session of GRPE in January 2011.

# Scope of gtr no 4

## 2. SCOPE

This regulation applies to the measurement of the emission of gaseous and particulate pollutants from compression-ignition engines and positive-ignition engines fuelled with natural gas (NG) or liquefied petroleum gas (LPG), used for propelling motor vehicles of categories 1-2 and 2, having a design speed exceeding 25 km/h and having a maximum mass exceeding 3.5 tonnes.

# The HILS methodology

- Aims to provide an engine based test procedure
- CO<sub>2</sub> emissions is not covered by the scope of gtr no 4 but the measurement procedure also include CO<sub>2</sub> in the gtr no 4
- The HILS methodology might therefore be appropriate to put as an amendment to gtr no 4 but it might be premature to make the final decision at this stage.
- If other methods like chassi dyno testing of the vehicle should be included this will probably not fit into the scope of gtr no 4

# Proposal to report to GRPE

- That the HD Hybrid Informal group would like to work along the lines outlined in the Terms of Reference:
  - That the HILS approach methodology is considered for an annex to gtr no 4 as the first option as drafted in the ToR
  - To report back to GRPE in the case the HD Hybrid Informal group at a later stage considers that the scope of gtr no 4 is not appropriate.