

**PROPOSAL OF MANDATE FOR AN AD HOC WORKING GROUP
ON HYBRID VEHICLES (HEV'S)**

Transmitted by the expert from France

1. General definition of hybrid vehicles (HEV's)
 - ↳ Scope limited in a first step to M1 and N1 vehicles
 2. Identification and definitions of categories of hybrid vehicles
 - ↳ Scope limited in a first step to vehicles fitted with electrical / thermal engines
 3. Identification of the necessary amendments to existing ECE regulations, and framework (GR's)
 4. Measurement of fuel consumption, electric energy consumption and the questions concerning CO₂ emissions.
 5. Overview of the difficulties in measuring HEV's, for example :
 - ↳ Driver selectable modes
 - ↳ Distinction between charge-depleting and charge-sustaining HEV's
 - ↳ Regenerative braking on the roller bench
 - ↳ Four wheel drive vehicles
 - ↳ Pre-conditioning the battery
 - ↳ Effects regarding the durability of the battery, (energy losses ...)
 6. Drafting of the Regulations.
 7. Timetable
 - ↳ 1st intermediate report on January 2002 : presentation to GRPE for agreement on definitions, categories of HEV's and priorities for ECE Regulations amendments.
 - ↳ 2nd intermediate report on January 2003 : presentation to GRPE of the proposals of the ECE
 - ↳ Regulations amendments
 - ↳ final report to GRPE on January 2004
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