

**Introduction:** EVE-11-03e outlines the objective, approach and timeline for Part A of the new EVE mandate (ECE/TRANS/WP.29/2014/88). The 'Objective' text is based on that in ECE/TRANS/WP.29/2014/88 and details objectives of Part A of the new EVE mandate, as agreed upon at the 69<sup>th</sup> GRPE meeting. The 'Approach' in EVE-11-03e involves identifying leads (organizations or contracting parties) to develop a scope and strategy for future work under Part A of the mandate on five topic areas: the four recommendations outlined in Chapter 5 of the EVE Guide (ECE/TRANS/WP.29/2014/81) and an additional topic as recommended by the GRPE Chair during the 69<sup>th</sup> GRPE meeting, determining power of EVs; ECE/TRANS/WP.29/2014/81 should be consulted when considering scope of work for each topic, with the exception of determining power of EVs, which will be discussed by the EVE group during EVE-11 and EVE-12 meetings. The 'Timeline' text is based on that outlined in ECE/TRANS/WP.29/2014/88.

**Objective:** To further develop the recommendations for future work outlined in the Electric Vehicle Regulatory Reference Guide by:

- a) Conducting additional research to support the recommendations;
- b) Identifying which recommendations are suitable for the development of a global technical regulation(s) (gtr(s)) by the World Forum for Harmonization of Vehicle Regulations (WP.29); and,
- c) Developing a workplan, which will identify which group(s) within the WP.29 forum that are most equipped to develop the gtrs identified in b). The workplan would be developed by the EVE IWG, in consultation with all other GRPE IWGs, and then proposed to the GRPE forum for discussion and decision; the GRPE forum would decide which IWGs would complete proposed work.

In addition, as proposed by the GRPE Chair, the group will also investigate power determination of the powertrain performance (maximum power and torque) for EVs.

**Approach:**

For each of the following five topic areas, Recommendations outlined in Chapter 5 of the Guide and power determination, an interested party or organisation to lead the work for a) and b) above will be identified (see proposed leads below):

1. Vehicle range and energy consumption testing (Section 5.1, ECE/TRANS/WP.29/2014/81)
  - a. Proposed lead: Japan
2. Method of stating energy consumption (Section 5.2, ECE/TRANS/WP.29/2014/81)
  - a. Proposed lead: China
3. Battery performance and durability (Section 5.3, ECE/TRANS/WP.29/2014/81)
  - a. Proposed lead: USA, Canada, with the support of Recharge
4. Battery recycling (Section 5.4, ECE/TRANS/WP.29/2014/81)
  - a. Proposed lead: OICA
5. Power determination of the powertrain performance (maximum power and torque) for EVs
  - a. Proposed lead: Korea, Germany

Note the titles of each topic area correlate to the Recommendations in Section 5 of the EVE Guide, ECE/TRANS/WP.29/2014/81 (with the exception of topic 5). Using the Guide as a starting point, the lead party or organisation will work with others who are interested to first develop a strategy for work to complete a) and b) above, and present initial ideas at the EVE face-to-face meeting in October 2014. A status report by the leads can be presented at the January 2015 EVE/GRPE meeting, at which point the development of a workplan ((c)) can be initiated discussed.

**Proposed Next Steps and Timeline:**

- August 2014:
  - Distribute 'Path forward' document to EVE group for consideration
  - August 19<sup>th</sup>: Leadership call to discuss response on the Path forward from EVE group
  - End August: Confirm leads for each recommendation
- September 2014:
  - 11<sup>th</sup> EVE meeting (**September 29, 2014; teleconference**); leads report on concept for work to complete a) and b) above.
- October 2014:
  - 12<sup>th</sup> EVE meeting (**October 28-29, 2014; Brussels**); leads report on a strategy to complete a) and b) above.
  - Work on a) and b) above initiates.
- November 2014:
  - Approval of the EV Regulatory Reference Guide and the new EVE IWG mandate by AC.3
- January 2015:
  - January GRPE: Face-to face EVE meeting; leads give a status report on a) and b) above and discussion of a workplan ((c)) can be initiated.
- January - June 2015:
  - EVE IWG continues work on Part A of the mandate, develops a detailed workplan and drafts request(s) for gtr development.
  - Consultation with the WLTP, including the WLTP-E-Lab. sub-group and WLTP co-sponsors (Japan and the European Commission) to determine if an 'EV expert group' is required to complete work.
- June 2015:
  - EVE IWG presents informal documents on status of Part A and proposed gtr request(s) for Part B to GRPE; endorsement by GPPE.
  - EVE IWG presents informal documents on status of Part A and proposed gtr request(s) for Part B for consideration by AC.3
- November 2015:
  - Approval of the Part B EVE IWG gtr requests by AC.3; new work initiates.