

**Report of the 4th Session of the
Electric Vehicles and the Environment Informal Working Group (EVE IWG)**

Location: Geneva, Switzerland, Palais des Nations
Time / Date: 14:30 – 17:30, January 14th, 2013
Chair: Michael Olechiw (United States)

1. Welcome, Introductions, Agenda (Agenda item 1)

Michael Olechiw, Chair of the informal working group, welcomed participants. The leadership group introduced themselves.

There were approximately 35 participants in the room and 5 participants on conference call, representing Contracting Parties, vehicle manufacturers and industry organizations from around the world.

The Agenda for the meeting (EVE-04-02e) was reviewed and no changes were made.

2. Review of EVE IWG #3 Session Report (Agenda item 2)

The Chair reviewed document EVE-03-06e covering Agenda item 2.

The Chair reminded participants of the discussions held during EVE-03, where participants agreed to develop a Reference Guide based on a 'vehicle attributes' approach and using a questionnaire.

The Chair reviewed the status of action items:

- The European Commission representative will present EV standardization recommendations and concerns. This will be discussed at agenda item 5.
- The EVE Secretary will adjust the Reference Guide outline and questionnaire as per comments received during EVE-03. This action is also completed; revised documents will be presented at agenda item 4.
- OICA offered to provide input to the activities of EVE. A bilateral discussion with OICA is planned for later this week to determine an approach.
- The Secretary will develop a roadmap. This is completed; a roadmap will be presented during agenda item 7.
- As requested by AC.3/WP.29, the EVE will submit the EVE Terms of Reference and a Progress Report to the March session. This is completed. The documents will be presented during the 65th session of the GRPE, after which they will be presented to the AC.3/WP.29 in March 2013.
- The Secretary will adjust the draft EVE-04 agenda as per comments received. Completed.
- The Secretary will contact the Chairs of the other IWGs involved with EVs (EVS, WLTP, HDH, and VSPD) to ensure continued collaboration. This is completed. Chairs of IWGs will update EVE members on activities related to EVs at agenda item 6.

3. Update on status of EVE IWG Progress Report and ToR for AC.3 (Agenda item 3)

The Secretary explained that at the 158th session of the WP.29, held last November, the AC.3/WP.29 requested that the Terms of Reference and a Progress Report for the EVE be presented at the 159th session, to be held in March 2013. For this reason, the EVE Secretariat has submitted documents GRPE-65-03 and GRPE-65-04 to be reviewed during GRPE held later this week. The Secretary reminded EVE members that the Terms of Reference were approved by the EVE at the EVE-02.

The representative from Volkswagen / OICA commented that in the vehicles attributes approach, consumer information was excluded.

The Chair responded by suggesting displaying the illustration of vehicle attributes document presented at EVE-03 (EVE-03-02e) and noted that the vehicle labeling attribute may address this concern.

4. Review Reference Guide Outline and Questionnaire (Agenda item 4)

The Secretary presented documents EVE-04-03e and EVE-04-04e displaying the most recent proposed Reference Guide Outline and Questionnaire.

The representative from India questioned the proposed definition for vehicle range found under item 3.1, and how this definition could cover hybrid electric vehicles.

The Chair noted that this definition did in fact exclude hybrid electric vehicles, which is not the intent.

ACTION 1: Modify this definition and verify that other definitions are written such that the entire scope of vehicles under the mandate of the EVE group is covered. This scope includes HEVs, PHEVs and BEV.

The representative from Germany agreed with the representative from India and further indicated that the WLTP-EV subgroup have been working on definitions. For this reason, the EVE group should verify that the definitions used in the EVE questionnaire are consistent with those used in this subgroup.

The Chair asked the Chair of the VPSD IWG if definitions developed by this group could be used. The Chair of the VPSD responded that definitions are currently being developed to support the work of the WLTP, and this is expected to be concluded this year. The VSPD Chair also noted that the HDH and EVS IWG may also have working definitions that may be useful. The co-Chair from China also added that the EVS is working on establish driver symbols that could be useful for our work.

ACTION 2: In completing the questionnaire, the EVE IWG will work with other relevant IWGs to ensure consistency of definitions when these are available.

The representative from the European Commission asked whether it was the intent of the EVE through the questionnaire to gather information on both existing and planned initiatives. The Chair answered that yes, this was the intention.

The representative from Germany asked if the EVE group had an approach for who amongst Contracting Parties would be completing the questionnaire. The Chair responded by explaining that we have been evaluating some options to try and reduce the workload to Contracting Parties for their important input. The EVE leadership have been discussing the possibility of

hiring a consultant to assist us with pre-filling the questionnaire and gathering the input submitted by Contracting Parties. The Chair asked the EVE if this was an acceptable solution. EVE participants supported this approach. The Chair explained that further work is required to confirm this approach, but that in any event, the participation of Contracting Parties in completing the questionnaire was key to the success of this key EVE deliverable.

ACTION 3: The Chair indicated that the Consultant's draft proposal would be posted on the UNECE website once all details had been worked out with the consultant.

The Secretary explained that to prepare the Reference Guide, setting up a Reference Guide contact list would be helpful. The Secretary requested that Contracting Parties submit appropriate contact names for future follow-up.

ACTION 4: EVE participants to submit contact names for completing the questionnaire to the EVE Secretariat by February 1, 2013.

The Chair requested that an additional broad question be added to the questionnaire enabling Contracting Parties to provide any other relevant information.

ACTION 5: Secretary to add broad question to questionnaire under each vehicle attribute.

5. Information-sharing presentations (Agenda item 5)

EV Standardization:

The European Commission representative mentioned that EV standardization was an important component of harmonization. He added that since there is much innovation happening at the moment, this is an ideal time to discuss standardization issues. Examples were given including battery size, e-performance, and connectors. The objective is not to make standardization rules mandatory but to provide a framework for manufacturers. The European Commission representative suggested adding a standardization question to the questionnaire, such as what types of components could be standardized.

The Chair noted the suggestion and commented that this suggestion went beyond vehicles to components of vehicles.

The Chair of GRPE commented that the EVE should be cautious in the wording used, for example regulations, performance requirements and standardization. He also reminded the group of the role of the WP.29 and the GRPE which is to develop regulations in support of vehicle verification activities and that it was not the role of the IWGs to develop standards.

The EVE co-Chair from Japan noted that some of these same discussions were occurring at the EVS.

The European Commission representative noted the comment made by the Chair of GRPE and suggested that the EVE could assist in initiating this work.

The Chair suggested that this question may be more appropriate for vehicle manufacturers, but also noted interest for what components would benefit most from standardization.

ACTION 6: Continue discussion on benefits of standardization at EVE-05.

EV Performance Presentation:

Dr Tober from the University of Vienna presented document EVE-04-05e, entitled 'The Energy Requirement of Battery Electric Vehicles Under Different Conditions'. Dr Tober presented

results of testing to assess the effect of driving situations, ambient temperature, and road gradient on EV range.

6. Roundtable on progress of related WP.29 working groups: EVS, WLTP, HDH, VSPD (Agenda item 6)

The Co-Chair from Japan presented document EVS-02-17e, the report of the second session of the EVS, and indicated that the Terms of Reference of the group were submitted to the 158th session of the WP.29.

The Chair of the WLTP-EV explained that his group is in phase 2 of validation 2 and that they have begun developing the gtr sections pertaining to EVs. The Chair of the WLTP-EV could not respond if a specific EV cycle would be available.

The Chair of the HDH referred the EVE members to the presentation made at EVE-02 and indicated that a gtr drafting group will have their first meeting at their next session in March.

The Chair of the VSPD referred EVE members to the document GRPE-65-12 that will be presented at the upcoming GRPE. He further mentioned that this work was currently in support of the WLTP work and that he planned to complete this by June 2013. The VSPD Chair indicated that timing of future meetings was going to be discussed in the upcoming GRPE.

Petter Asman, Chair of the newly formed EPPR informed the EVE members that the first meeting of the IWG would be held this coming Friday afternoon, and that the mandate of the group was scheduled to end in 2016. He mentioned that the objective of the first session was to seek input and agree to Terms of Reference.

An EVE member joining by conference call asked how the EPPR and EVE IWGs differed and if it would cover nonroad vehicles?

The EPPR Chair responded that the scope of the group covered all types of propulsion systems, including petrol, and that the focus was on onroad vehicles.

The Co-Chair from China asked if the group had a mandate to develop a gtr for motorcycles.

The EPPR Chair suggested having a look at the draft Terms of Reference currently on the GRPE website.

7. Review EVE IWG Roadmap, Next Steps (Agenda item 7)

The Chair presented the roadmap (see document EVE-04-06e).

The representative from the European Commission suggested launching a press release.

The Chair of GRPE asked for a clarification on the roadmap item related to testing and conducting research, as he felt this was not within the mandate of the EVE.

The Chair responded that this would be a suggestion to carry out research which could bolster our suggestions.

The co-Chair from China suggested that a meeting in the Fall 2013 would be necessary to deliver on our mandate.

ACTION 7: EVE to consider an additional Fall 2013 meeting.

8. Discuss EVE-05 meeting agenda (Agenda item 8)

The Chair presented the draft EVE-05 meeting agenda (see document EVE-04-07e).

It was mentioned that the WLTP-DTP is holding a meeting in Tokyo, March 22-25, 2013. The EVE leadership team was asked to consider changing the dates to accommodate some members participating in both groups.

ACTION 8: This will be considered and final dates will be presented at the GRPE.

The Chair noted that agenda items 3 and 4 on the proposed agenda should be switched.

ACTION 9: Amend EVE-05 agenda accordingly.

9. Concluding Remarks, Closing (Agenda item 9)

The Chair thanked EVE members for their participation.