

Draft meeting minutes
13th Session of the Subgroup 4 (Usage Phase)
of the IWG on Automotive Life Cycle Assessment
(IWG on A-LCA)

Meeting documents available at:

<https://wiki.unece.org/display/trans/SG4+-+13th+meeting>

Agenda

| Time | | Agenda Item | Lead | Working Paper | Purpose or Target |
|---------------|---|--|-------|-----------------|---------------------|
| 11:00 ~ 11:05 | 1 | Welcome and introduction | Chair | NA | Introduction |
| ~ 11:10 | 2 | Adoption of the agenda | Chair | A-LCA-SG4-13-01 | Agreement |
| ~ 11:15 | 3 | Adoption of the last meeting minutes | Chair | A-LCA-SG4-12-05 | Agreement |
| ~ 11:50 | 4 | SG4 draft Table of Contents | Chair | A-LCA-SG4-13-02 | Discussion Proposal |
| ~ 12:00 | 5 | Updates on Maintenance and Consumables | Chair | A-LCA-SG4-13-03 | Presentation |
| ~ 12:15 | 6 | Unit conversion to MJ | Chair | A-LCA-SG4-13-04 | Discussion Proposal |
| ~ 12:25 | 7 | Exported Vehicles / Second Life | Chair | A-LCA-SG4-13-05 | Discussion |
| ~ 12:30 | 8 | Any other business & Closing | Chair | | Closing |

Meeting

Agenda Item 1: Welcome and introduction

The chair welcomed the participants to the 13th SG4 meeting and provided some overview of the main topics for today's meeting. In addition, the chair presented the agenda.

Agenda item 2: Adoption of the agenda

The agenda was approved by the participants.

Agenda item 3: Adoption of the last meeting minutes

The last meeting minutes were approved and adopted by the participants.

Agenda item 4: SG4 draft Table of Contents

Chair - JRC: presented to the SG4 members a draft document "SG4 Table of Contents"

to be edited, reviewed and delivered to SG7 Drafting leaders, along with a draft methodology by September 13th. The presented document can be found on today's meeting wiki-page and attached in the meeting minutes. It deals with listing out all the processes that are meant to be included in SG4 and the data to be collected and used, whether they are primary or secondary. The chairs asked for comments, modifications and feedback to the members and a deadline will be communicated.

- Ricardo (Hill N.): highlighted that primary and secondary data can be different based on the level concept under consideration, if we refer to the level concept matrix. Hence, a clear definition of what is considered to be primary and secondary is definitely needed and it should be included in the body of the text.

See document(s): [A-LCA-SG4-13-02](#)

Agenda Item 5: Updates on Maintenance and Consumables

Chair - OICA: Introduced a colleague from OICA (Lachina F.) to discuss the latest update on Maintenance and Consumables based on comments received within OICA. Some parts of the text will be reviewed, such as an update on the estimation of GHG emissions produced by vehicle maintenance during the use phase who was foreseen to be in a range from 2%- 5%. For the section 2.4.2.2 (where maintenance data not available) OICA also pointed out the editorial mistake of mentioning 'f_maintainance as 'frequency' rather than 'factor'. This will be corrected in the next update of the draft. The document with comments was uploaded to the corresponding wiki-page.

- GreenNCAP: asked for clarification about CO₂ calculation when data from OEMs is not available. Chairs replied that in that case a fix percentage of upstream whole vehicle emissions should be used in the formula, where f is a factor (%) of maintenance.
- Ricardo: highlighted that transportation to EoL stage and recycling of parts is out of scope for SG4. Text will be modified accordingly.
- Ricardo: suggested to add a list of parts that are expected to be replaced and those who are not supposed to be replaced. The same applies to leakages. It was stressed the need to account for non-covered replacements, for all vehicle categories. It could be the case, then, that some of these emissions will be cut-off if they are not significant.
 - o Korea: mentioned that refrigerants and lubricants are not considered as leakages but IPPU (Industrial Process and Product Use) emissions according to the UNFCCC national GHG inventory guidelines. To keep the consistency with other UN GHG inventory documents, leakages have to be considered like emissions of the driving process and not replacements.
 - o Chairs agreed and OICA said that it is important to clarify how to distinguish between leakages from driving and maintenance. Thus SG4 members were invited to send their comments and ideas on the matter.
- Chair – OICA: asked for comments/feedback on cut-off criteria to be applied to maintenance and consumables.

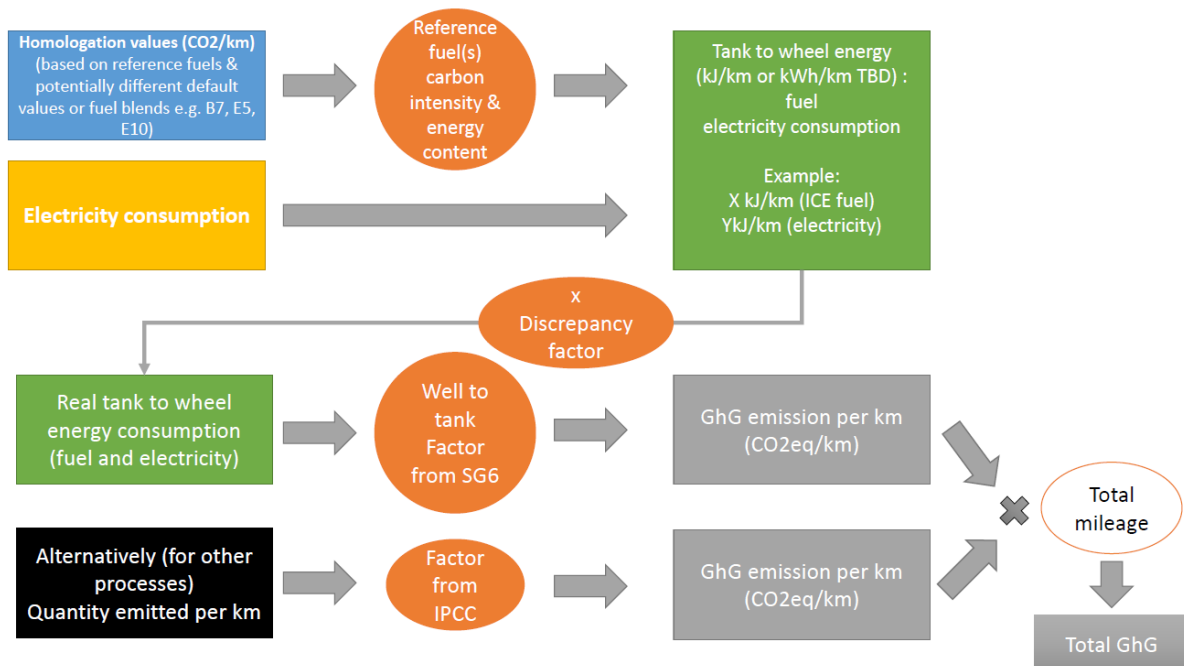
- Korea: pointed out the scope and boundary of usage phase, especially considering second life, includes if accidents and malfunctioning are considered or not. OICA replied that replacement parts due to accidents are excluded; also malfunctioning should be excluded since their occurrence happens to be very low, according to internal sources. Moreover, OICA adds that this type of information is not known at point of sale, so it would be a risky assumption and hard to estimate.
- Ricardo: asked a general question about the content of the draft document, more precisely if IWG wants to include only factual information about the developed methodology or facts and figures and justification is also foreseen by the leaders.
 - o The chairs will contact SG1 and SG7 to address this matter.

Following the discussion on drafting documents, it was decided that the leaders will create a drafting folder on the wiki-page for sharing drafting documents in docx format. More discussion will follow in the upcoming sessions.

See document(s): [A-LCA-SG4-13-03](#)

Agenda item 6: Unit conversion to MJ

Following the discussion started during the 12th SG4 meeting, the chair provided a visual schematic to describe the calculation flow and how and where the unit conversion to energy (MJ or kJ) should take place, as depicted in the picture below:



- Ricardo: asked if discrepancy factor means every factor like real-world gap and degradation. The chairs confirmed.
- Ricardo on fuel consumption highlighted that some regions might already give energy consumption e.g. MJ/km, so this should be taken into account in the

calculation process. The chairs replied that they are well aware of that.

- Japan suggest that this is an interesting alternative, where all other emissions (evaporative and alternative emission) will have the same unit and all the emissions during 'use phase' is considered as a single box.

See document(s): [A-LCA-SG4-13-04](#)

Agenda item 7: Exported Vehicles / Second Life

The chair reported to the participants the outcome of an interaction meeting with SG5 EoL leaders about Exported vehicles out of region of sales and Second life of parts. This is a controversial topic, i.e. environmental impacts ELV management out of sale region, and SG5 has contacted SG4 to bring a common assessment methodology to the IWG overarching discussion. The doubt on SG5 side concerns the way of modelling vehicles of unknown whereabouts, whether to model them with an average global/regional value or cut-off them from the scope of the analysis.

- Ricardo stated that we should include at least second life since it can be a relevant aspect on the overall GHG emissions. The question is rather "how we do it". They acknowledged that it is not an easy task and most probably it is not helpful to track down the entire life and share of km in different regions after the product exits region of sale. A good compromise could be not to exclude second life, envisaging a simplified approach to cover the entire life with an average value of both extra service life and fuel/energy consumption.
- GreenNCAP was on the same page and they referred to a previous study where it was demonstrated that neglecting second life of vehicle/parts is worse than adopting average values to account for those regions and processes that cannot be fully described in other regions.
- Japan commented that some CPs are not able to take care of second life in other regions.

See document(s): [A-LCA-SG4-13-05](#)

Agenda item 8: AOB & Closing

The chair invited the participants to share their additional topics/remarks. No comments arose from the audience.
























The chair informed the participants that the next SG4 meeting (14th) will be held online on the 4th of September.

The chair thanked all the participants for their participation and formally closed the meeting.

See document(s):

ANNEXES

Participants list:

| | | |
|---|--------------------------------------|---|
|  | TRIPATHY Samarendra Organisateur |  |
| AD | Aleksandar Damyanov (Non vérif... |  |
| CB | Baumgaertner, Christoph (uidu4... |  |
| DG | DI PIERRO Giuseppe (JRC-ISPR...)... |  |
| FL | Filippo Lachina (C) (Non vérifié) |  |
| FG | FONTARAS Georgios (JRC-ISPR...)... |  |
| HY | Hee-Jeong Yim (Non vérifié) |  |
| NH | Hill, Nikolas (Non vérifié) |  |
| KP | hyemi Park, Korea (Non vérifié) |  |
| J | JASIC/JAPAN_ICHIK... (Non vérifié) |  |
| JD | Joachim Demuyndt (Non vérifié) |  |
| MM | Maffei, Monica (Non vérifié) |  |
| SM | Mamarikas, Sokratis (e:misia) (N... |  |
| GM | Mellios, Giorgos (e:misia) (Non v... |  |
| NG | Nicolle Giuliani (Non vérifié) |  |
| AP | Přihodová, Adéla (Non vérifié) |  |
| AR | Ragone, Alessandro (Non vérifié) |  |
| ST | Shinichiro Takada (Non vérifié) |  |
| SP | Sungwook Park(HYU) (Non vérifié) |  |
| S | Suzuki (JP/JARI) (Non vérifié) |  |
| TS | Tetsuya SUZUKI / 鈴木 徹也 (No... |  |
| 한탄 | 한결 연구원 탄소중립기술혁신... |  |