

# **Application of ASEP for EVs according to WD GRBP/2025/29**

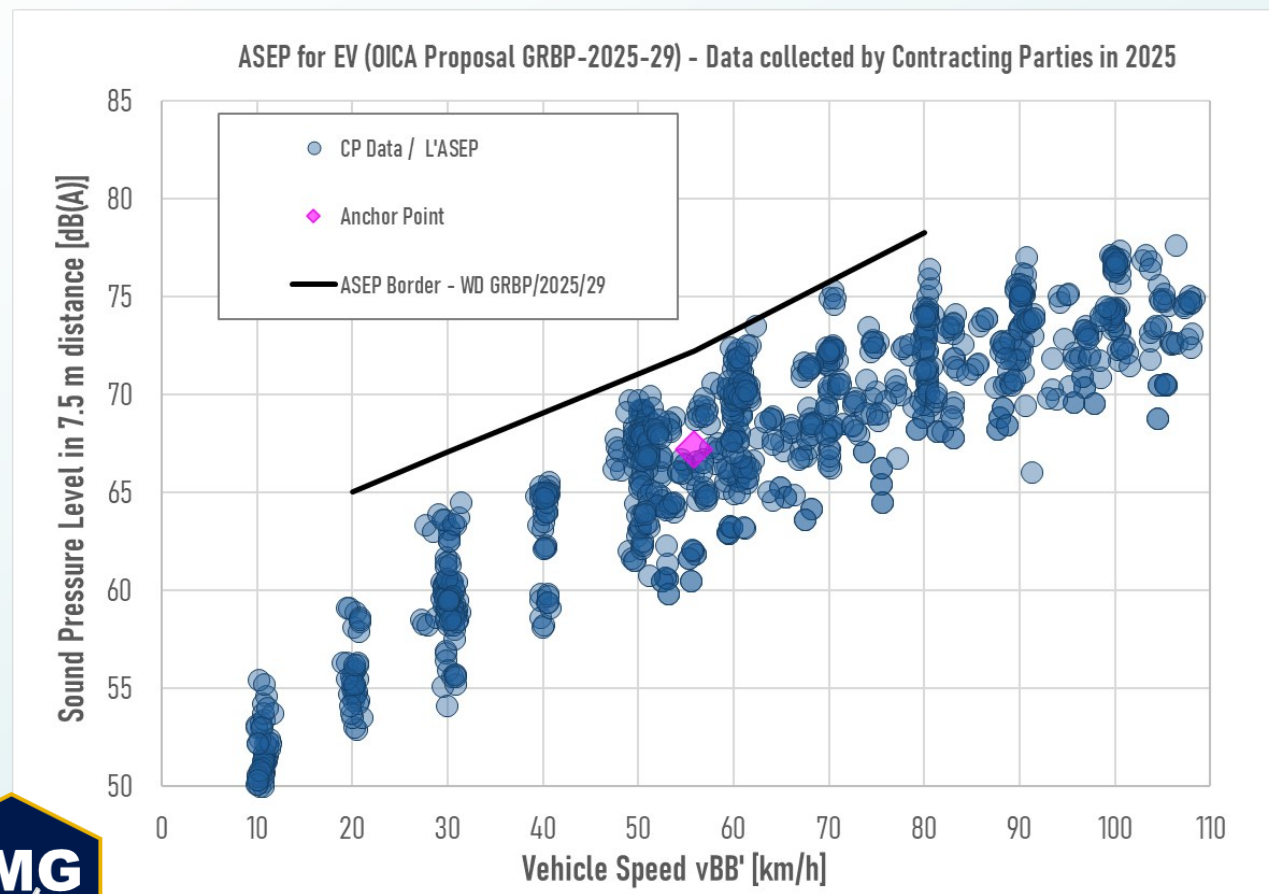
on Data Collected by CPs in 2025, and  
on Data from UTAC RD-ASEP Monitoring Database

GRBP 82, September 2025



# Application of ASEP to Electric Vehicles

Effect of WG GRBP/2025/29 on vehicles measured by Contracting Parties in 2025

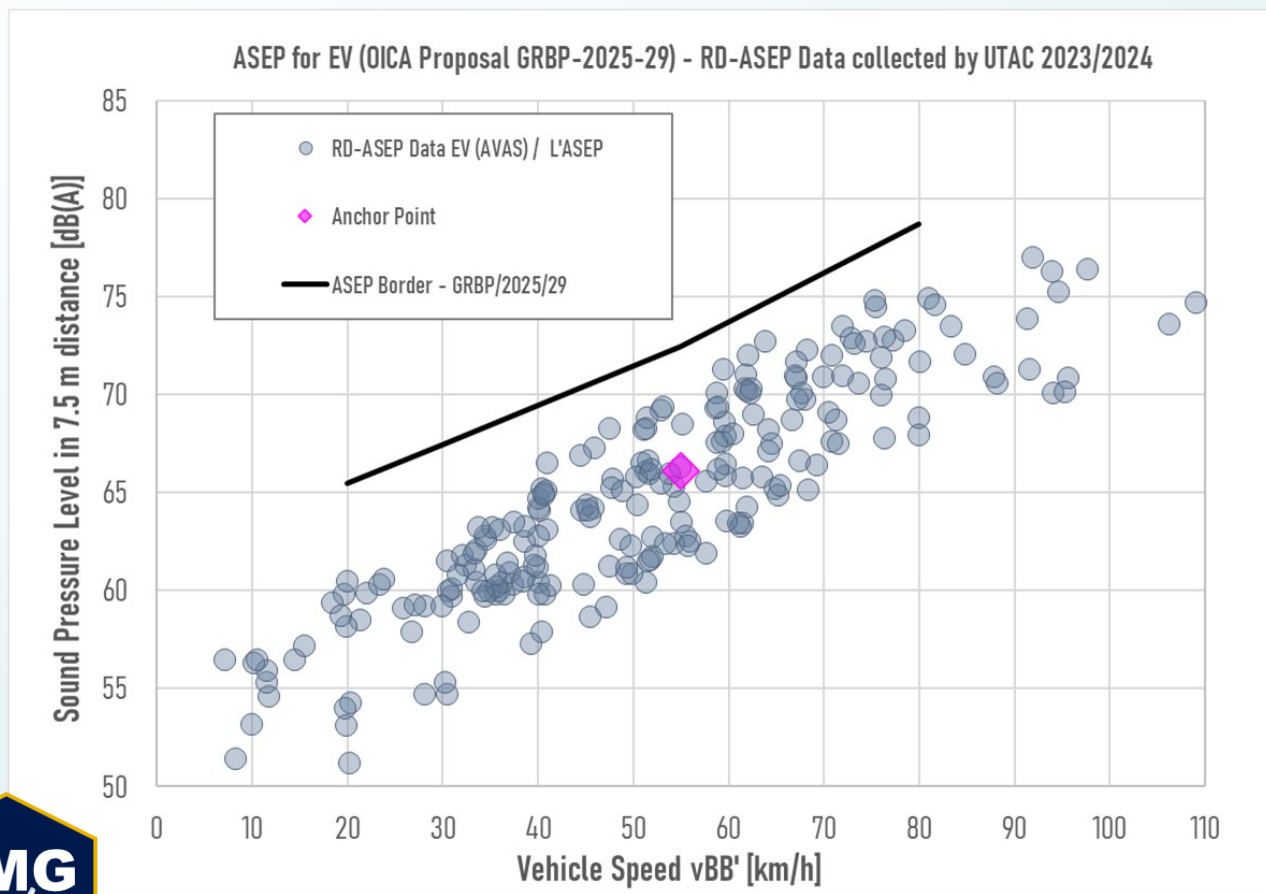


- In 2025 CPs measured in total **20 electric vehicles as they are on the market today**.
- The vehicles are **in-use vehicle** and not taken from type approval.
- These data have been published on the UN website:  
[SG MD 05 0823 Measurement Data anonym.xlsx](#)
- The collected data allow an assessment of ASEP according to the proposal made with GRBP/2025/29.
- The graph to the left shows the result for all 20 vehicles in an aggregated way. Each dot represents one pass-by run.



# Application of ASEP to Electric Vehicles

Effect of WG GRBP/2025/29 on vehicles measured during the RD-ASEP Monitoring Phase 2023/2024

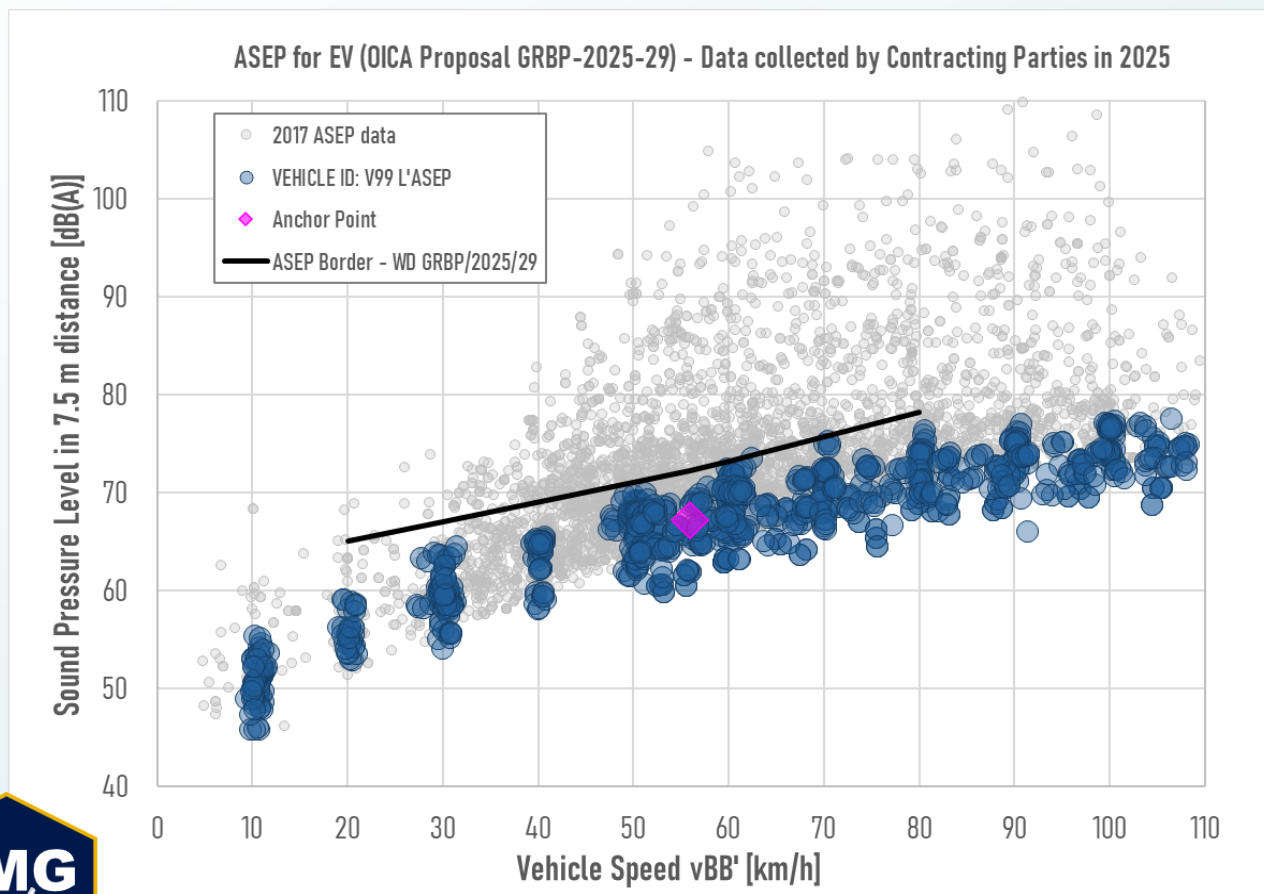


- UN R51.03 mandated measurements for RD-ASEP according to UN R51.03 Annex 9 for a period of 12 month between July 2023 and July 2024.
- UTAC had collected these data and created a database which contains more than 500 vehicles.
- It includes 38 electric vehicles which can be evaluated according to GRBP/2025/29 as well.
- The graph to the left shows the result for the 13 vehicles in the database which have an AVAS only in an aggregated way. Each dot represents one pass-by run.



# Application of ASEP to Electric Vehicles

State of the Art of EVs in comparison to ICE/HEV vehicles approved between 2010-2017



- The graph to the left shows a comparison of **electric vehicles as they are on the market in 2025 (blue dots)**, relative to **mainly ICE vehicles that have been approved between 2010 and 2017 (grey dots)**.
- These data are taken from the database of the IWG ASEP which started in 2016 to develop RD-ASEP.
- The data are available on the UN website: [ASEP database 2017 for IWG ASEP](#)
- At that time UN R51.03 Phase 1 limits were in force, and it was possible to receive extensions of approvals under UN R51.02 (no ASEP).