

CHAdeMO European meeting
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ACEA position and recommendations for the standardization of the charging of electrically chargeable vehicles

ACEA position and recommendations for the standardization of the charging of EVs



- ACEA stresses the urgent need to finalize European agreement for standard AC charging
- ACEA presents its vision for common agreement on quick charging solution
- Position and recommendations cover :
 - Connector types (IEC 62196)
 - Charge modes (IEC 61851)
 - Communication standards for the charging of EVs (passenger cars and light-commercial vehicles)
- This position has been validated on 2011/09/02

ACEA position and recommendations for the standardization of the charging of EVs



- Timeframe divided into two fundamental phases

- Phase 1 :
 - Ongoing period till approval of relevant standards
 - A preparatory step for a broader introduction of EVs in the EU

- Phase 2 :
 - Harmonized rules should apply for new vehicle types starting 2017
 - Need an uniform EU solution enabling global charging standards to be applied that reduces the variety of solutions in the market
 - Providing the industry with needed lead time
 - to implement these new solutions in their vehicle development programs
 - to make necessary adaptation in the infrastructure

ACEA position and recommendations

Basic charging



(AC charging up to 3,7kW)

Phase 1

- Agreement on vehicle inlet : no restrictions on type as vehicles with different types are already on the market or in a late development phase
- Recommendation for infrastructure side socket :
 - Public charging : Type 2 (Mode 3) ; Type 3 where nationally required
 - Home charging : Type 2 (Mode 3), home socket or industrial IEC 60309-2 socket (Mode 2)

Phase 2

- Agreement on vehicle inlet : Type 2 (Mode 3) uniform EU solution
- Recommendation for infrastructure side socket :
 - As for harmonized solution, ACEA strongly recommends to unify national regulations concerning socket outlet without shutter
 - Public charging : ACEA recommends Type 2 (Mode 3) uniform EU solution (Type 3 if national differences still remain)
 - Home charging should be still allowed as in phase 1

ACEA position and recommendations

Fast charging



(Fast AC and DC charging up to 43kW, and ultra fast DC charging above 43kW)

- ACEA strongly recommends those infrastructure/charging points to be equipped with fixed attached cable
- ACEA recommendation for vehicle inlet: Type 2 or Combo 2
 - Combo 2 provides background for unified solution for different AC and DC charging powers and enables compatibility EUwide
 - Global envelope facilitates the exchange of Combo 1 (US) / Combo 2 (EU) solutions and will lead to cost reductions
- The development of public infrastructure shall not ban vehicles already equipped with other existing DC charging devices (e.g. CHAdeMO) and backward compatibility solutions for those vehicles should be considered