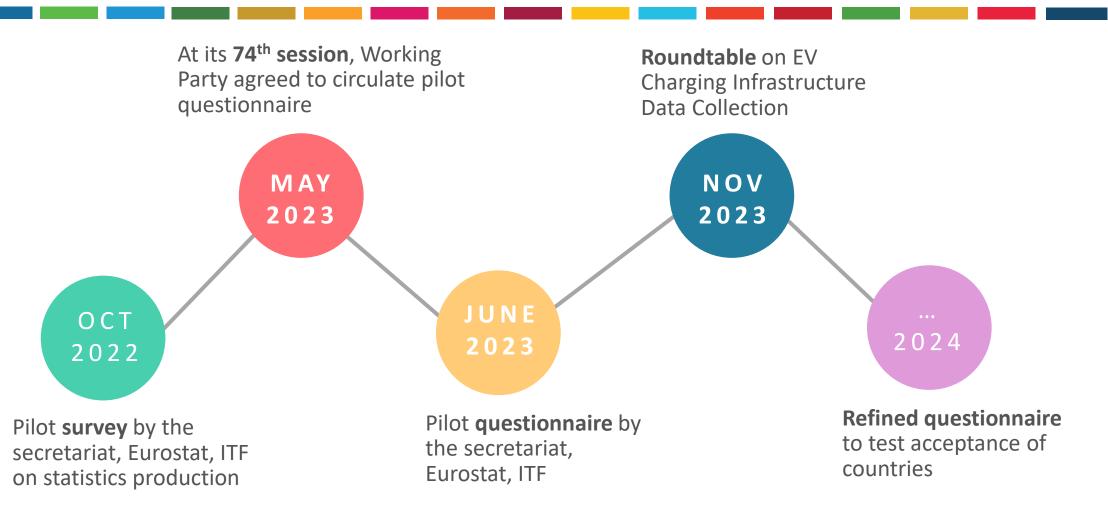




Electric Vehicle Charging Infrastructure Data Collection

Fadiah Achmadi, Secretary, WP.6

Timeline





June 2023 Pilot Questionnaire

	2018	2019	2020	2021	2022	
Number of public recharging pools/locations						32
of which: restricted access/semi-public						J
Number of public recharging stations/devices						
of which: restricted access/semi-public						Countries
Number of recharging points/Supply Equipment (EVSE)						responded
TOTAL AC (Category 1)						I
<i>Slow AC</i> : P < 7.4 kW						
Medium-speed AC : 7.4 kW ≤ P ≤ 22 kW						00
Fast AC : P > 22 kW						23
TOTAL DC (Category 2)						
<i>Slow DC</i> : P < 50 kW						
Fast DC : 50 kW ≤ P < 150 kW						Provided data
Level 1- Ultra fast DC : 150 kW ≤ P < 350 kW						
Level 2- Ultra fast DC : P ≥ 350 kW						



Number of countries reporting 2022 data

Number of public recharging pools/locations

of which: restricted access/semi-public

Number of public recharging stations/devices

of which: restricted access/semi-public

Number of recharging points/Supply Equipment (EVSE)

TOTAL AC (Category 1)

Slow AC: P < 7.4 kW

Medium-speed AC: $7.4 \text{ kW} \leq P \leq 22 \text{ kW}$

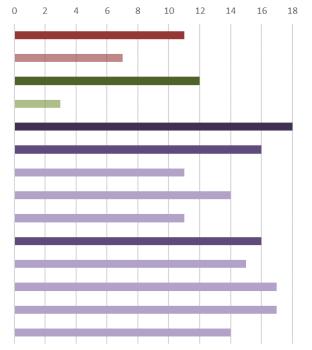
Fast AC: P > 22 kW
TOTAL DC (Category 2)

Slow DC: P < 50 kW

Fast DC: 50 kW ≤ P < 150 kW

Level 1- Ultra fast DC: 150 kW ≤ P < 350 kW

Level 2- Ultra fast DC: P ≥ 350 kW



- Not all countries track/report "Restricted access/semipublic" category
- Disaggregated AC and DC charging infrastructure data are not always available
- Countries provided data as of Dec 31, Jan 1, June 30
- Some countries have different power categorizations, e.g.:
 - Level 1 Ultra fast DC: 150 kW
 250 kW
 - Level 2 Ultra fast DC: > 250 kW



Findings and next steps

Diverse approaches by countries

- Refining international definitions
- Identifying suitable indicators for consistent measurements

Strategic approach for data collection

- Starting in 2025 for CQ reference year 2024
- AFIR's mandates for power output
- UNECE Consolidated
 Resolution on the
 Construction of Vehicles
 (R.E.3)

Revised questionnaire

- Integrate new definitions discussed at the roundtable
- Follow-up questionnaire in 2024 to test the updated definitions and refinements



Number of public recharging pools/locations

of which: restricted access/semi-public

Number of public recharging stations/devices

of which: restricted access/semi-public

Number of recharging points/Supply Equipment (EVSE)

TOTAL AC (Category 1)

Slow AC : P < 7.4 kW

Medium-speed AC: 7.4 kW \leq P \leq 22 kW

Fast AC: P > 22 kW

TOTAL DC (Category 2)

Slow DC : P < 50 kW

Fast DC : 50 kW ≤ P < 150 kW

Level 1- Ultra fast DC : 150 kW ≤ P < 350 kW

Level 2- Ultra fast DC : P ≥ 350 kW

Keep 'of which: restricted access/semi public'?

Number of public recharging pools/locations at 31.12

of which dedicated to heavy-duty vehicles

Number of public recharging stations/devices at 31.12

Number of public recharging points/Supply Equipment (EVSE) at 31.12

Alternative Current

Slow AC: P < 7.4 kW

Medium-speed AC: 7.4 kW \leq P \leq 22 kW

Fast AC: P > 22 kW

Direct Current

Slow DC: P < 50 kW

Fast DC: 50 kW ≤ P < 150 kW

Ultra fast – level 1: 150 kW ≤ P < 350 kW

Ultra fast – level 2: P ≥ 350 kW

Power output installed in public recharging points (kW) at 31.12

of which dedicated to heavy-duty vehicles

Number of publicly accessible hydrogen refueling points at 31.12





Thank you!

Fadiah Achmadi

Secretary, WP.6

UNECE

Date 24 I 04 I 2024, Geneva