TAKING AMBITIOUS CLIMATE ACTION
Decarbonising inland transport by 2050

Electric Vehicle Charging Infrastructure Data Collection
Fadiah Achmadi, Secretary, WP.6
Timeline

At its 74th session, Working Party agreed to circulate pilot questionnaire

Pilot survey by the secretariat, Eurostat, ITF on statistics production

Roundtable on EV Charging Infrastructure Data Collection

Pilot questionnaire by the secretariat, Eurostat, ITF

Refined questionnaire to test acceptance of countries
### June 2023 Pilot Questionnaire

<table>
<thead>
<tr>
<th></th>
<th>2018</th>
<th>2019</th>
<th>2020</th>
<th>2021</th>
<th>2022</th>
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<tbody>
<tr>
<td><strong>Number of public recharging pools/locations</strong></td>
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<td>of which: restricted access/semi-public</td>
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<td><strong>Number of public recharging stations/devices</strong></td>
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<td><strong>Number of recharging points/Supply Equipment (EVSE)</strong></td>
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<td>TOTAL AC (Category 1)</td>
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<td>Slow AC: P &lt; 7.4 kW</td>
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<td>Medium-speed AC: 7.4 kW ≤ P ≤ 22 kW</td>
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<td>Fast AC: P &gt; 22 kW</td>
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<td>TOTAL DC (Category 2)</td>
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<tr>
<td>Slow DC: P &lt; 50 kW</td>
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<tr>
<td>Fast DC: 50 kW ≤ P &lt; 150 kW</td>
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<tr>
<td>Level 1- Ultra fast DC: 150 kW ≤ P &lt; 350 kW</td>
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<td>Level 2- Ultra fast DC: P ≥ 350 kW</td>
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- **32 Countries responded**
- **23 Provided data**
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 kW ≤ P ≤ 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

- Not all countries track/report “Restricted access/semi-public” 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
Refined Questionnaire

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<th>Number of public recharging pools/locations</th>
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<td>of which: restricted access/semi-public</td>
<td>of which dedicated to heavy-duty vehicles</td>
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**TOTAL AC (Category 1)**
- Slow AC: \( P < 7.4 \text{ kW} \)
- Medium-speed AC: \( 7.4 \text{ kW} \leq P \leq 22 \text{ kW} \)
- Fast AC: \( P > 22 \text{ kW} \)

**TOTAL DC (Category 2)**
- Slow DC: \( P < 50 \text{ kW} \)
- Fast DC: \( 50 \text{ kW} \leq P < 150 \text{ kW} \)
- Level 1- Ultra fast DC: \( 150 \text{ kW} \leq P < 350 \text{ kW} \)
- Level 2- Ultra fast DC: \( P \geq 350 \text{ kW} \)

**Power output installed in public recharging points (kW) at 31.12**
- of which dedicated to heavy-duty vehicles

Keep ‘of which: restricted access/semi public’?
Decarbonising inland transport by 2050

Thank you!

Fadiah Achmadi
Secretary, WP.6

UNECE
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