POLIS CONFERENCE 2020
Session 8C. Future-proof e-charging infrastructure

Alexander VERDUYN | DG MOVE | B4

Context

Recommendations for procuring, awarding concessions and granting aid for recharging points for passenger cars and vans

2019 STF Plenary mandate

- 2020 workstream: develop Guidelines on minimum quality requirements for infrastructure and best practices for public tendering

- Easy to use toolkit – best practices guide

- For authorities that procure or award concessions/licenses/support for CPs

- Work allocation
  - Coordination by EC with support of TNO / POLIS (EAFO)
  - Core review team:
    - Cities: Berlin, Ghent, Stockholm and Stuttgart
    - Experts organizations: MRA-E, ELAAD, EIB, Eurocities, NKL, RAP & Fier Automotive (EAFO)
  - Final review and approval: STF members on 01/12/2020

Objective

- Knowledge dissemination: avoid mistakes made by others and spread best practices

- Help <u>save scarce public resources</u>

  ➢ Procure state of the art infrastructure & avoid stranded investments

- Soft harmonisation / interoperability

  ➢ Support consumer uptake of e-mobility

- Help recharging market develop as competitive market

Avoiding:
- Stranded Investments
- Multiple Charging Cards/Apps
- Islands of connectivity

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Content

Recommendations for procuring, awarding concessions and granting aid for recharging points for passenger cars and vans
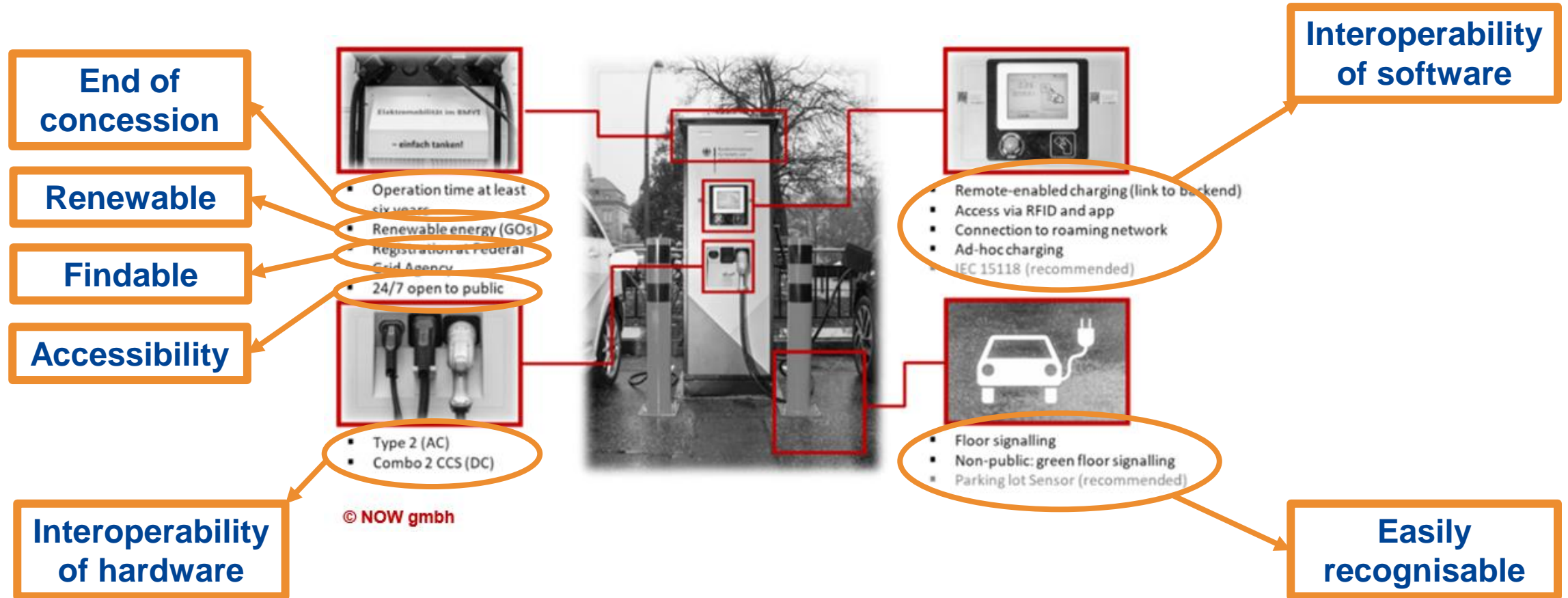
Scope

- Good practices <> also bad experiences

- Regarding public procurement of / concession awards / license awards / government support for

- Publicly accessible (incl. so-called semi-public)

- Recharging infrastructure

- For passenger cars and vans (LDV)

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Overview

1. Defining the deployment approach

    1. Long-term (electro-)mobility strategies

    2. Cooperation between public authorities

    3. Determining a suitable recharging network

2. Organising the tender procedure

    1. Who does what?

    2. What instrument to use?

    3. Fostering competition in recharging market

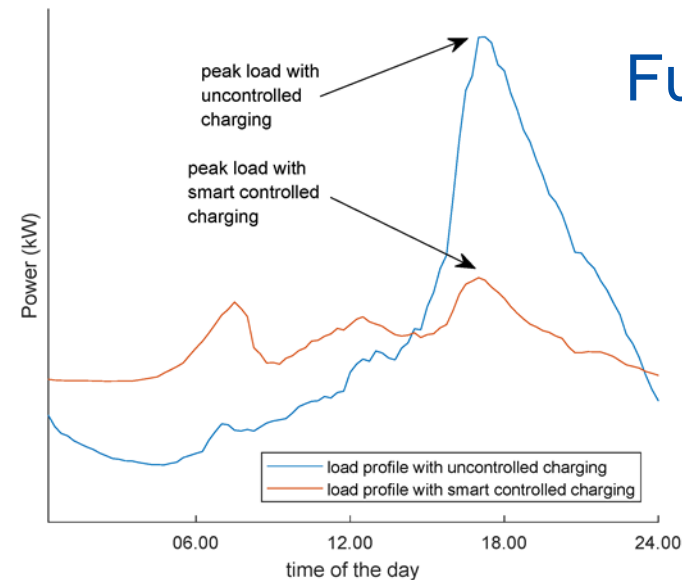3. Specific tender requirements

> Recommendations

Specific tender requirements: overview

End of concession

Renewable

Findable

Accessibility

Interoperability of hardware

Interoperability of software

Easily recognisable

- Operation time at least six years
- Renewable energy (GOs)
- Registration at Federal Grid Agency
- 24/7 open to public

- Type 2 (AC)
- Combo 2 CCS (DC)

- Remote-enabled charging (link to backend)
- Access via RFID and app
- Connection to roaming network
- Ad-hoc charging
- IEC 15118 (recommended)

- Floor signalling
- Non-public: green floor signalling
- Parking lot Sensor (recommended)

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Also included

User-friendly infrastructure:

- support service
- quality requirements
- easy ad hoc payment
- price transparency and fair pricing

Future proof infrastructure

- Modularity of design
- Smart charging
- Wireless charging, etc.

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