



e-mobility NSR



Modellregion
Elektromobilität
Hamburg

Experiences and Future EV Fast Charging in Hamburg

Pilot Region Electric Mobility Hamburg, Germany

Sören Christian Trümper

hySOLUTIONS GmbH / Co-ordinating Office Hamburg

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What is on the ground....

- 323 battery electric cars
- 5 diesel hybrid-buses

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- 50 double-outlet public charging spots

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What is on the ground....

- 323 battery electric cars
- 5 diesel hybrid-buses

- 50 double-outlet public charging spots
- 200 single-outlet off-street charging spots

Who is using it.....

- focus on corporate fleets:
 - utilities
 - hospitals
 - local authorities
 - retailers
 - express deliveries
- substitution of ICEs
- early market potential

How it is used....

- RFID authentication
- IEC 62196 Type 2, Mode 3 („Mennekes“)
- 1x 16A, 220 V 3,5 kW
- ready for: 3x 16A, 400 V 20,0 kW
- possible: 3x 32A, 400 V 40,0 kW

- CEE 7/4 (Schuko®)
- 1x 13A, 220 V 2.8 kW

- inductive system 11,0 kW

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Overview of city situation regarding fast charging

- 20 kW
- 40 kW
- but: cars are currently not ready for fast-charging

Future plans for fast-charging

- analysis of demand and use-cases
 - benefits/beneficiaries

- initial roll-out at strategic locations
 - port
 - motorways

Biggest barriers for deployment of fast-charging

- cost
- demand/use case

Regionale Projektleitstelle Elektromobilität Hamburg
c/o hySOLUTIONS GmbH
Steinstraße 25
20095 Hamburg

soeren.truemper@hysolutions-hamburg.de
www.elektromobilitaethamburg.de

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