

CHARGING INFRASTRUCTURE: FIT FOR THE E-VEHICLES MARKET RAMP-UP!?

BERLIN, 11.11.2019



EMO NETWORK

Agency of the State **be Berlin**

On behalf of Senatsverwaltung für Wirtschaft, Energie und Betriebe **be Berlin**

Aegis **be Berlin** Partner
für Wirtschaft und Technologie

PREMIUM



PARTNER



EMO CLUB



NETWORK



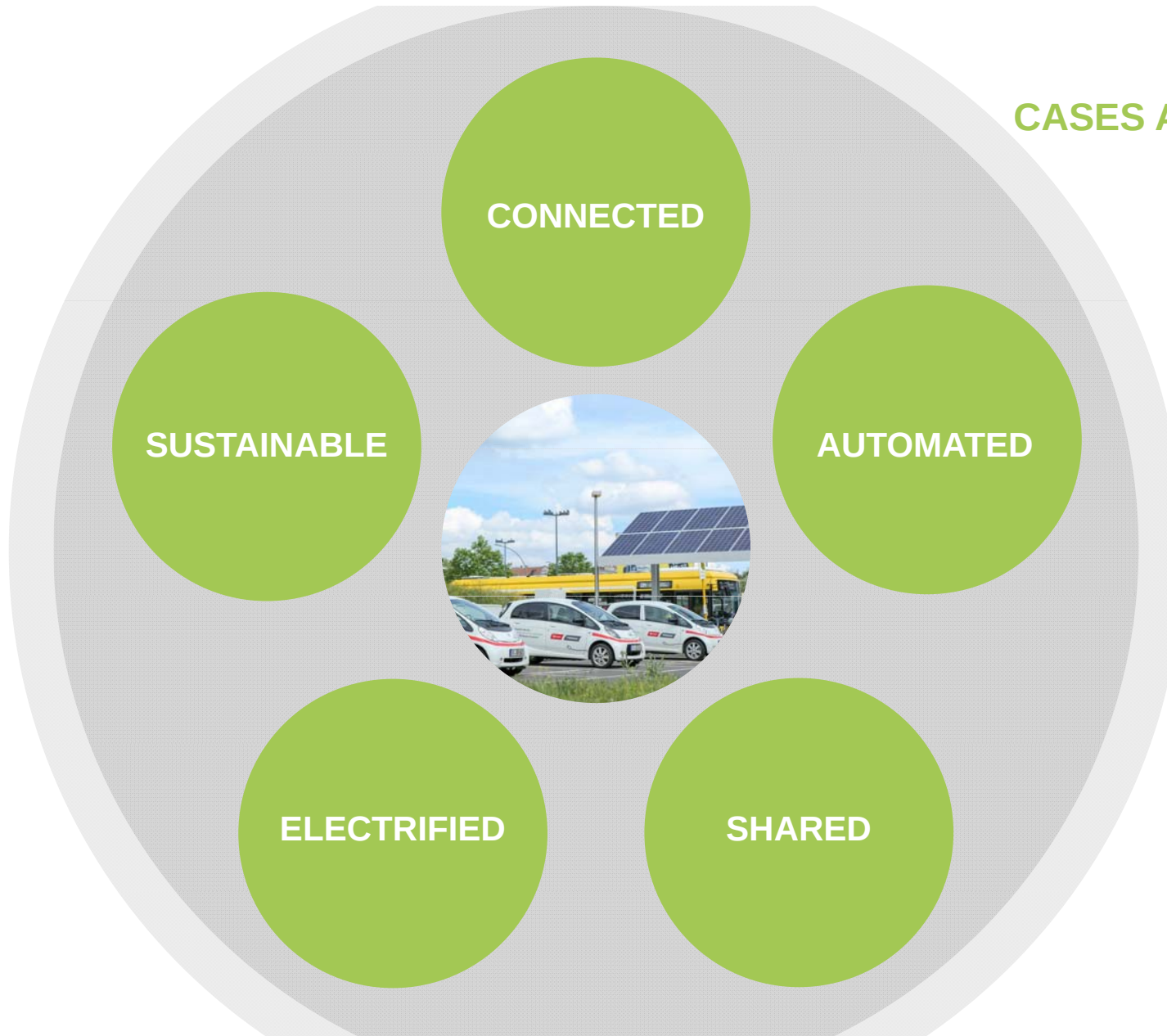
Memberships



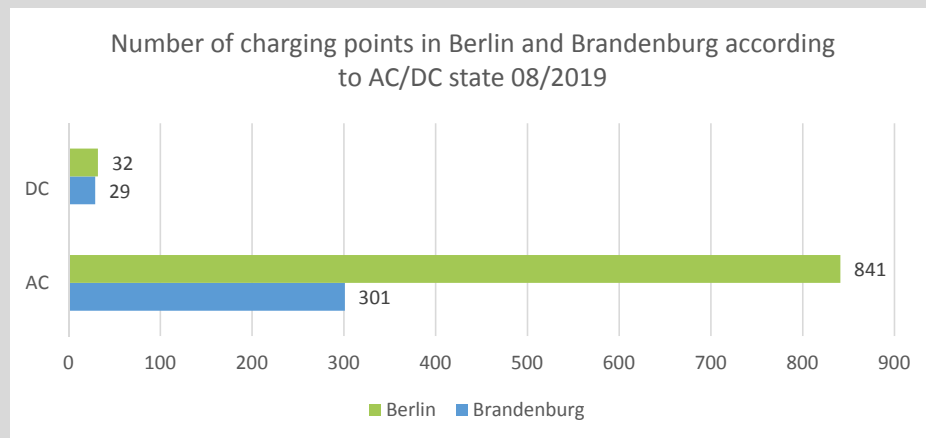
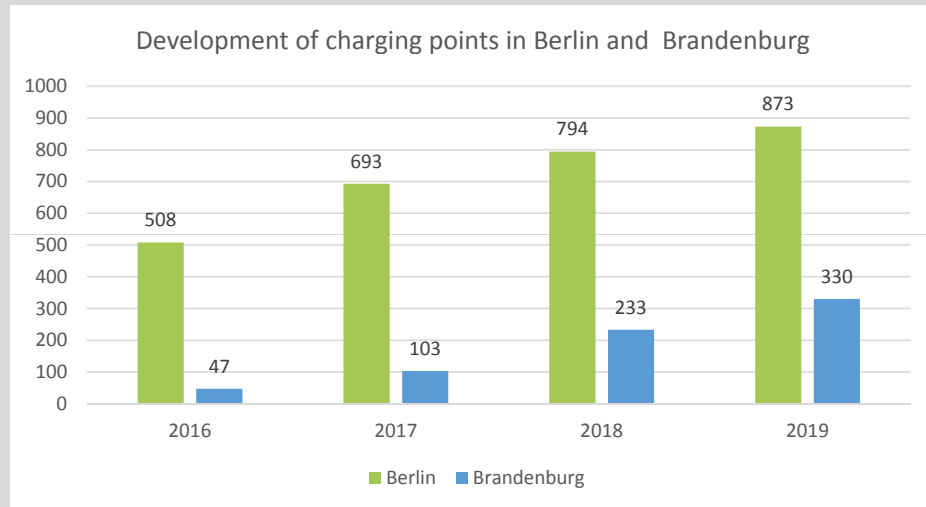
08/2019



CASES APPROACH



STATUS QUO BERLIN/ BRANDENBURG



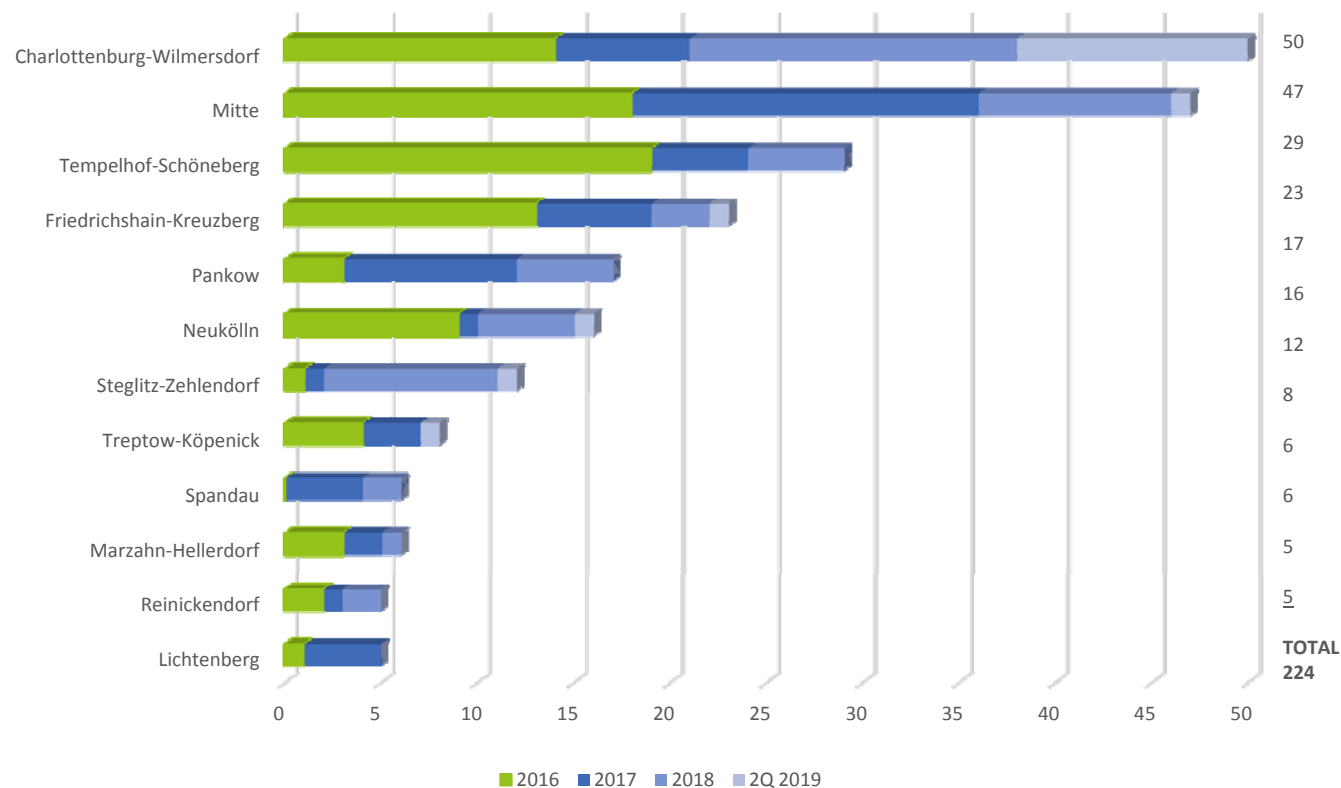
Data basis: Ladesäulenregister Bundesnetzagentur (08.08.2019)

- **1.203** charging points are registered for Berlin and Brandenburg in the BNetzA charging post register (state 08/2019).
- **8,895 e-Vehicles** (KBA), ratio **1:7**
- Allego 79% charging points in **Berlin**.
- In **Brandenburg**, Charge-ON GmbH 77 charging points, followed by Stadtwerke Neuruppin.



DEVELOPMENT „BE EMOBIL“

Development of the „be emobil“ loading equipment after comissioning year*





BERLIN 2030

- Between **130.000** and **330.000 e-vehicles** are expected
- Min **14,000** to **100,000** charging points requested
- **systematic development and expansion of the charging infrastructure** in the public and "semi-public" space in Berlin is required

„Potenzialanalyse für Ladeinfrastruktur in Berlin bis 2030“, Reiner Lemoine Institut 08/2019



CHARGING INFRASTRUCTURE IN SEMI-PUBLIC SPACE

Charging ...

... at home

Housing companies /
property managers
and developers (no
private individuals)

... with the employer

Employers with parking
areas for employee
parking,
company fleets,
company cars

... at the Point of Interest

Trade, leisure/ sports,
Hotels/gastro, petrol
stations, multi-storey
car parks

Indirect target groups/Involved actors:

(1) Network operators, (2) Architects/Construction planners, (3) Craft/ technical
suppliers



CHALLENGES

- No core business
- Lack of financial incentives
- Administrative effort
- Long processes for business initiation
- No/low profitability due to lack of basic capacity utilization
- Guarantee of 24/7 accessibility (conveying paths/charging pole arrangement)



PROMOTIONAL PROGRAMME WELMO

E-Cars: 4.000 €

Small trucks: 8.000 €

Charging Infrastructure
(hardware and installation) up to 50% of costs

Consulting

1st day free

2nd and 3rd day 80%

The subsidy can be claimed in addition to the environmental bonus of the Federal Government.

Project administrator: IBB Business Team



PROMOTIONAL PROGRAMME WELMO

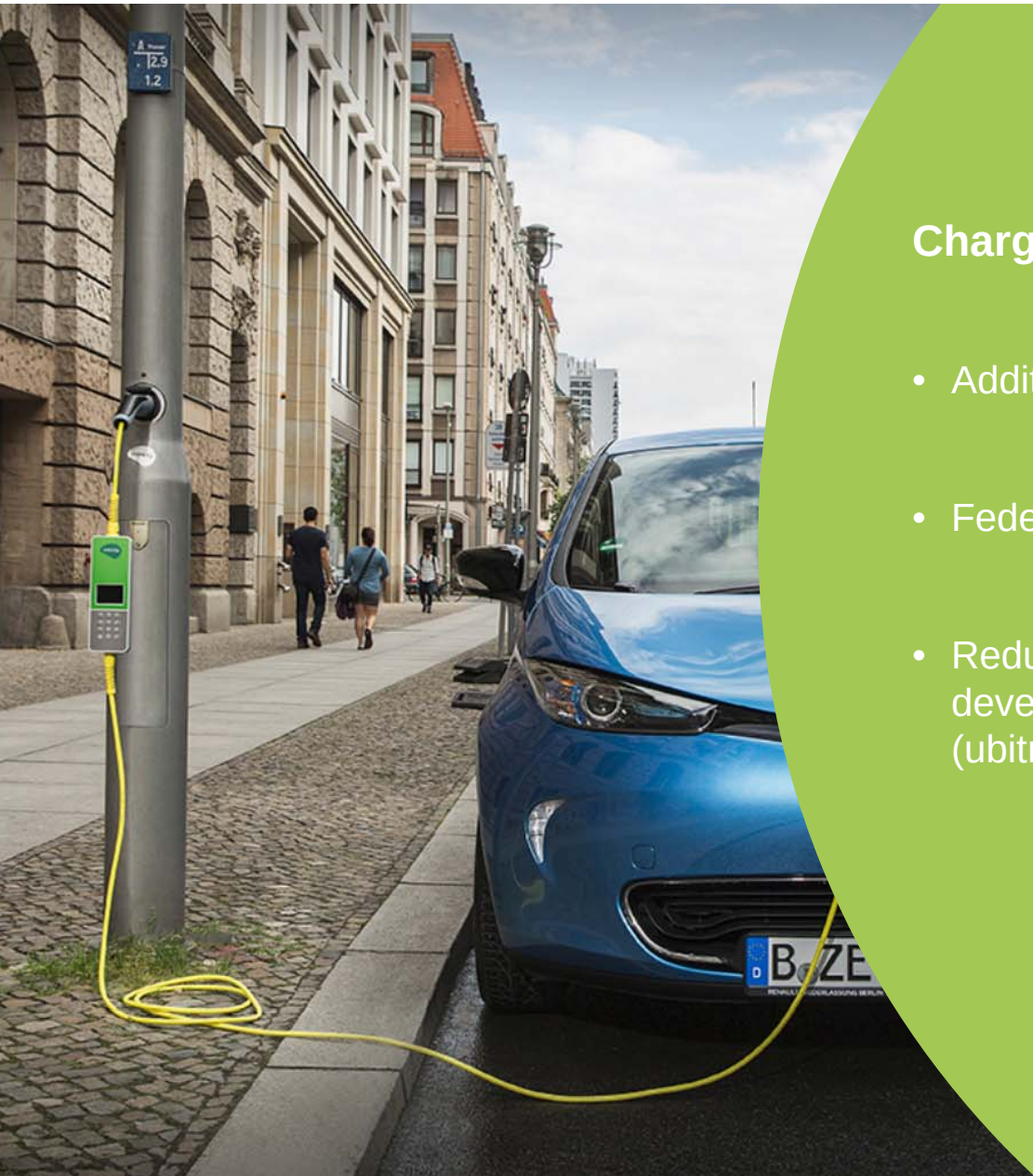
Charging infrastructure

Number of requested charging points	
Charging point AC	345
Charging point DC	37
Sum	382

vehicles

Number of vehicles applied for	
Electric vehicles (battery only)	1.871
Plug-in Hybrid	262
Fuel cell vehicles	0
Sum	2.139

source: IBB Business Team GmbH; Wirtschaftsnahe Elektromobilität; state 29.08.2019



SMART INFRASTRUCTURE

Charging at Lampposts „Neue Berliner Luft“

- Additional 1.600 charging points for e-Cars in Berlin
- Federal funding program „Saubere Luft“
- Reduction of barriers to the use of electromobility through the development of intelligent mobile-metering charging points (ubitricity) for lantern parkers



MULTIMODALITY

Residential e-Sharing

SHARING OF CHARGING INFRASTRUCTURE & FLEETS

- Charging infrastructure sharing to increase capacity utilisation
- Software solutions for comprehensive vehicle pooling
- Integration of renewable energies



NEW MOBILITY

MOBILITY HUBS

SYSTEMATIC NETWORKING OF SEVERAL
MEANS OF TRANSPORT IN A DIRECT SPATIAL
CONNECTION

- multimodal
- visible
- user-friendly





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