



Berlin is Going Electric

Best Practice and Success stories - Electric mobility in commercial transport

Frank Panse, Berlin Agency for Electromobility eMO



Berlin-Brandenburg region

- 2.000+ electric cars and commercial vehicles (thereof 450 used for e-carsharing)
- 500 publicly accessible charging points
- 5 hydrogen fuelling stations

...and in Germany

- 30.000 electric cars and commercial vehicles
- 5.500 publicly accessible charging points
- 30 hydrogen fuelling stations

- 5 projects in the show case electromobility and about 40 electric vehicles
- Focus on CEP services
- Application-oriented priorities
- Business cases / cost-effectiveness

Concept for electric city logistics (Smart e-User)

Multi-shift operations and nighttime deliveries with electric vehicles (NaNu!)



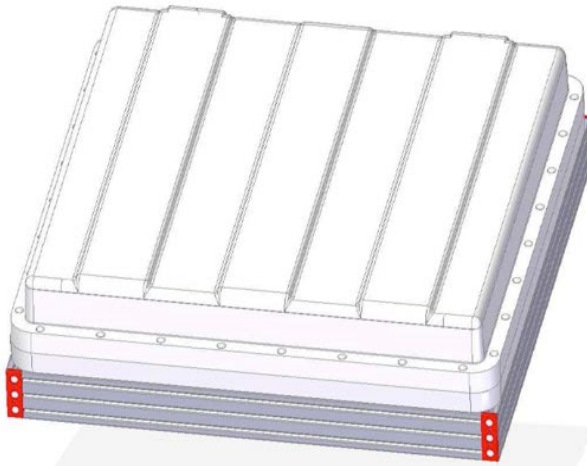
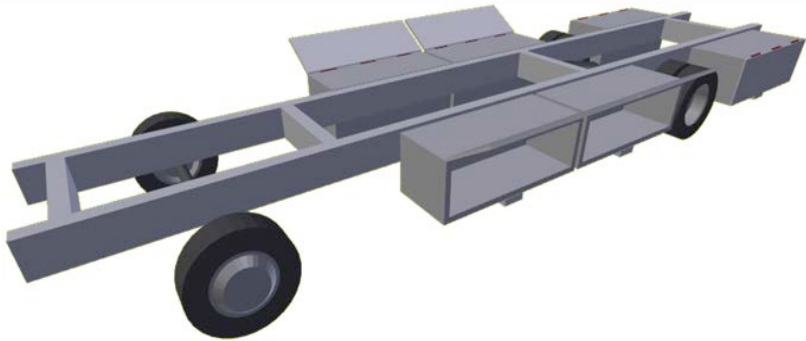
Ressource effiziente distribution logistics in urban areas with electric light utility vehicles (DisLog)



Electric-Waste disposal systems: Deployment of three electric waste disposal vehicles (ElektroAES)

Swap-boxes mounted on truck Frame

Max 8 boxes for 15t truck with an equivalent of 160kWh resulting in an urban range between 150...200km



Swap-battery-Module:

- with BMS
- Crash safe
- External cooling

Other use cases in Berlin

Electric Intermodal combined transport



- Terberg YT202-EV: fully electric yard tractor designed for container terminals.
- The biggest one licensed for road services.
- Maximum overall weight in combined transport 44t.
- Will be used for delivery of the largest department store in Berlin

KV  eCHAIN

2 e-trucks used by Meyer Logistik

Motor power: 300 kW / 408Ps

max. speed: 87 km/h

Range: 200-300km

Battery

2 X120 kWh, 400V, 2600kg

Loading 44 kW in 6 h

Chassis: IVECO Stralis

Overall weight: 18 t



- Two-way-drive for shunting up to 800 t train weight
- Max. motor power 35 kW, Max. speed 8 km/h



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Ich ersetze ein Auto



DLR project “Ich ersetze ein Auto”
 (“I substitute a car”):

- establishing electric cargo bikes as a climate-friendly mode of transport for courier logistics.
- 40 electric cargo bikes were successfully deployed in the daily routines

Velogista

- Berlin based start-up (founded 05/2015)
- Pure bike courier logistics services

Wide range of Cargo bike producers in Berlin

- Pedalpower Berlin in cooperation with Brose Motor
- Veleon, tilting technology



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