“Transit-ing” to Electric

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200,000 EV Charging Deployments… and counting..
The Building Blocks of eMobility - Plug to Grid™

Projects

Charger

Storage

“Make Ready”
a.k.a electric infrastructure

Software

Service
Plug to Grid™ Design – Integrated Fleet Charging
Plug to Grid Design – Bus Depots with Load Management

Managing 1000’s of Buses in Parallel

Charging Concentrates Rapidly (>10 MW / Site)

Peak-shaving through specific power limits

Load postponement to lower tariff time periods

Reduced base load through homogenization

Energy demand projection

Peak-shaving

Time

Power

Time

Power

Reduced base load

Base load reduction through homogenization

Energy demand projection

Reduction of balancing energy demand through projection
Bus Depot Today

- 0.4 MVA installed load
- ~ 2 MT Diesel
- No load management needed
- 10kV grid access

eBus Depot Tomorrow

- 25 MVA peak load
- ~ 30 GWh electricity
- Load management required
- 110kV grid access

Source: Depot at City of Hamburg
Thank You!

Leading in Electrification, Automation and Digitalization