



AUG 31, 2022

ABB E-mobility

North America

(Peter King/ Business Development Mgr – Utility Segment)



ABB E-mobility Charging Products Portfolio



DESTINATION DC

Terra DC Wallbox
20 to 24 kW



All-in-one systems



DC FAST

Terra 54/94/124/184
50 to 180 kW



DC HIGH POWER

Terra HP
175 kW to 350 kW



FLEET & TRANSIT

HVC-C Depot Box
100 kW to 150 kW



split systems



TRANSIT HIGH POWER

HVC-PD Panto Down
150 kW to 600 kW



**Reliability for Electric Vehicle Infrastructure - A Lot
of Moving Parts That Are NOT in the Vehicle!**

Electric Transportation is a paradigm shift as to how fuel type is now delivered for fleet. In past it has been the fleet/fuels group responsible for providing the fueling of fleet assets.

With electric transportation the responsibility shifts to the facilities department to provide electrical power required for desired fleet operations

Weather/Elements

**Vehicle compatibility
with EVSE**

**Internal
components
Modem
Breakers
Cooling system**

Operator Error

**Comms with
Network Software**

**Normal
wear/tear**



Vandalism

Accidents

Critters

Reliability Cuts Across Multiple Areas

Procurement

- Warranties (Standard vs extended)
 - Parts & labor
 - Spare Parts
- Service Level Agreements
 - Remote diagnostics
 - 3rd party
 - Expectations of organization
 - Business Needs

Facility

- Placement of equipment
- Electrical connections – surge protection/back-up/Upgrades
- Internal Resources – who will maintain on site? Certifications needed (Preventative Mtc)
- Who is responsible for charging of vehicles
- Driver Education

Feedback loops

- Network software services?
- How can they integrate to create issue awareness i.e. service tickets
- Monitor System Uptimes
- Regular Inspections for damage and safety

Blooper reel

Keep the critters out



Blooper reel

Importance of bollards and/or wheel stops

Charger without bollards vulnerable to being struck by a vehicle

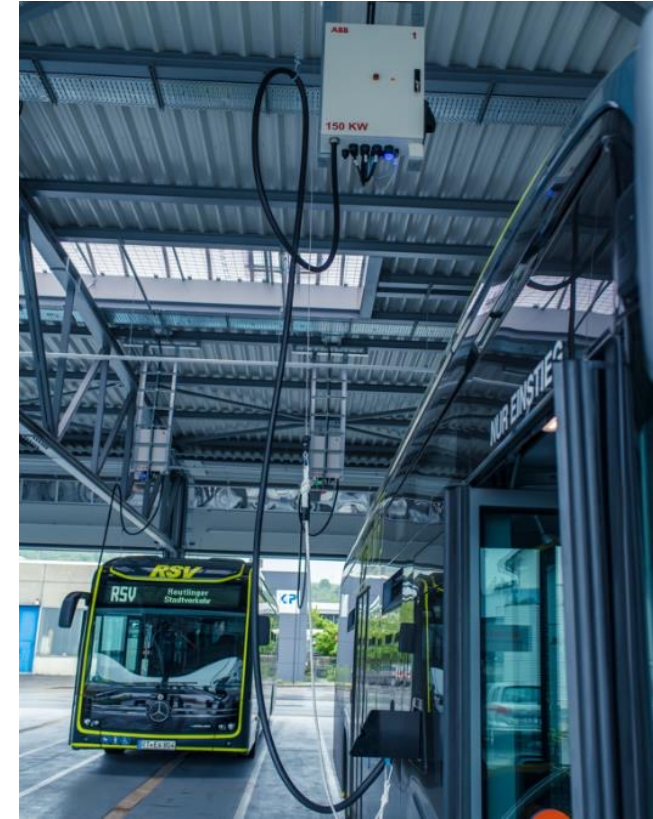


Charger with poorly placed bollard limits service entry



Dispenser Locations

Mounted overhead



Plug In applications

Remote Dispenser mounted closer to vehicle





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