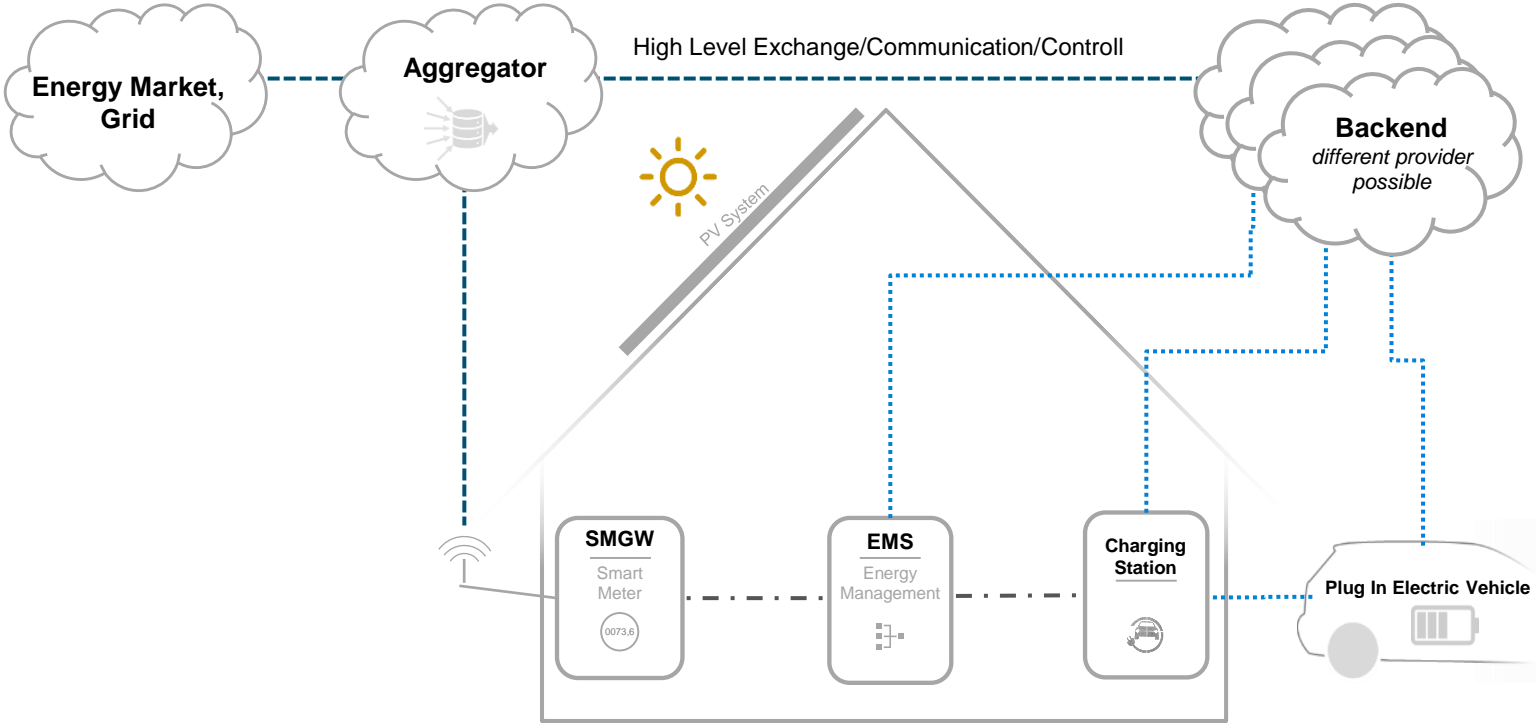


Grid Integration Architecture

Customer Energy Management System

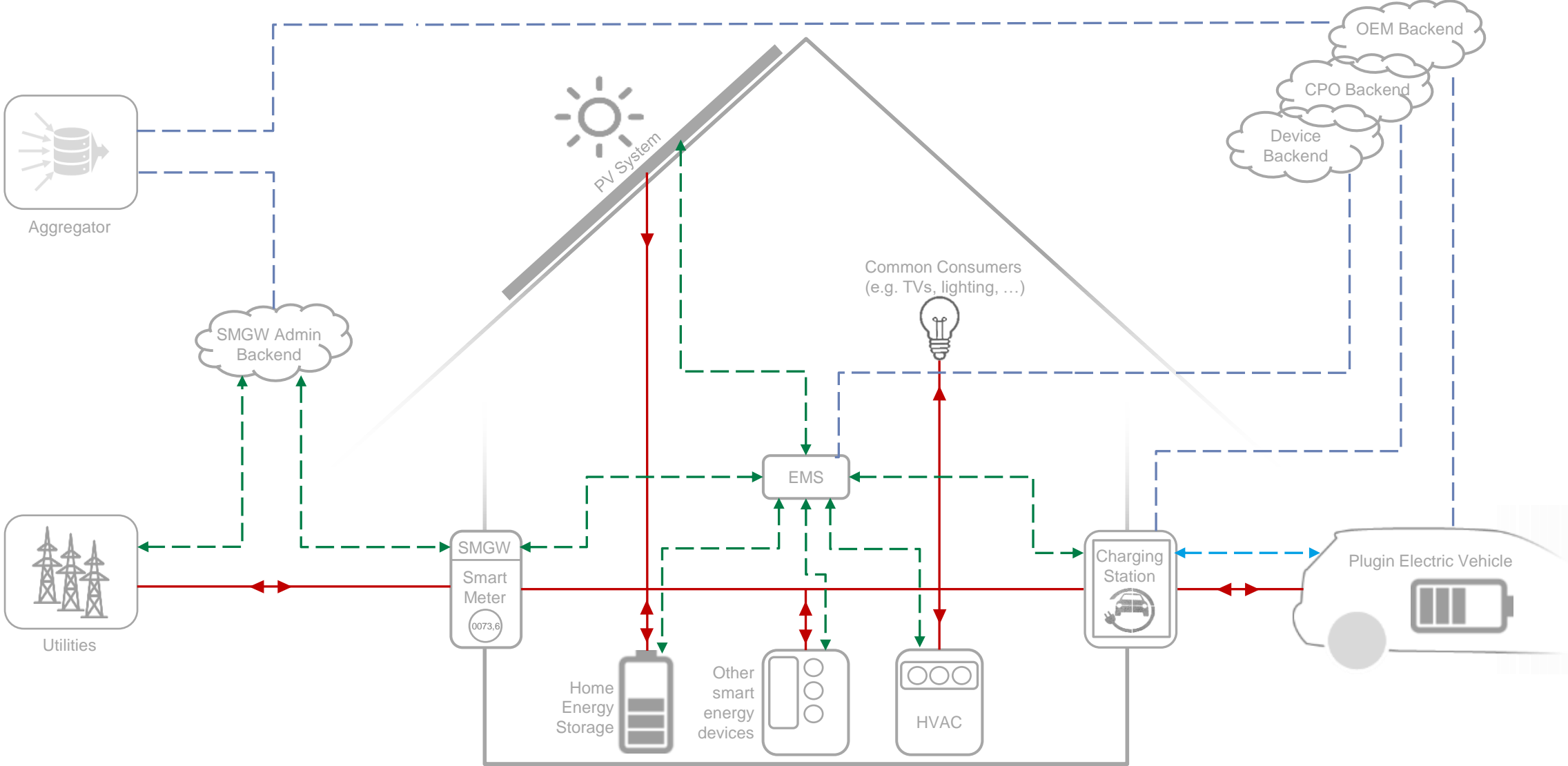
Customer Energy Management System

Communication Architecture Overview



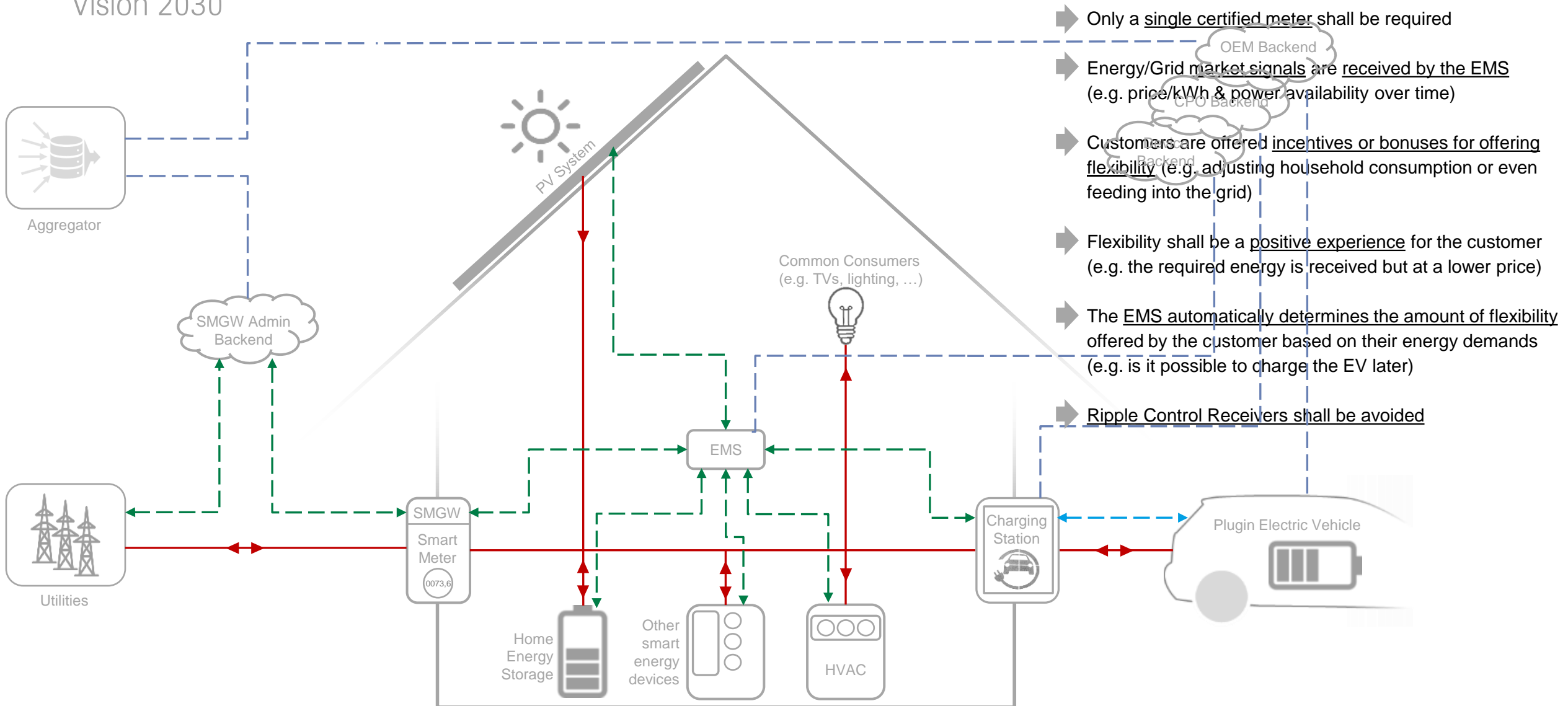
Customer Energy Management System

Vision 2030



Customer Energy Management System

Vision 2030

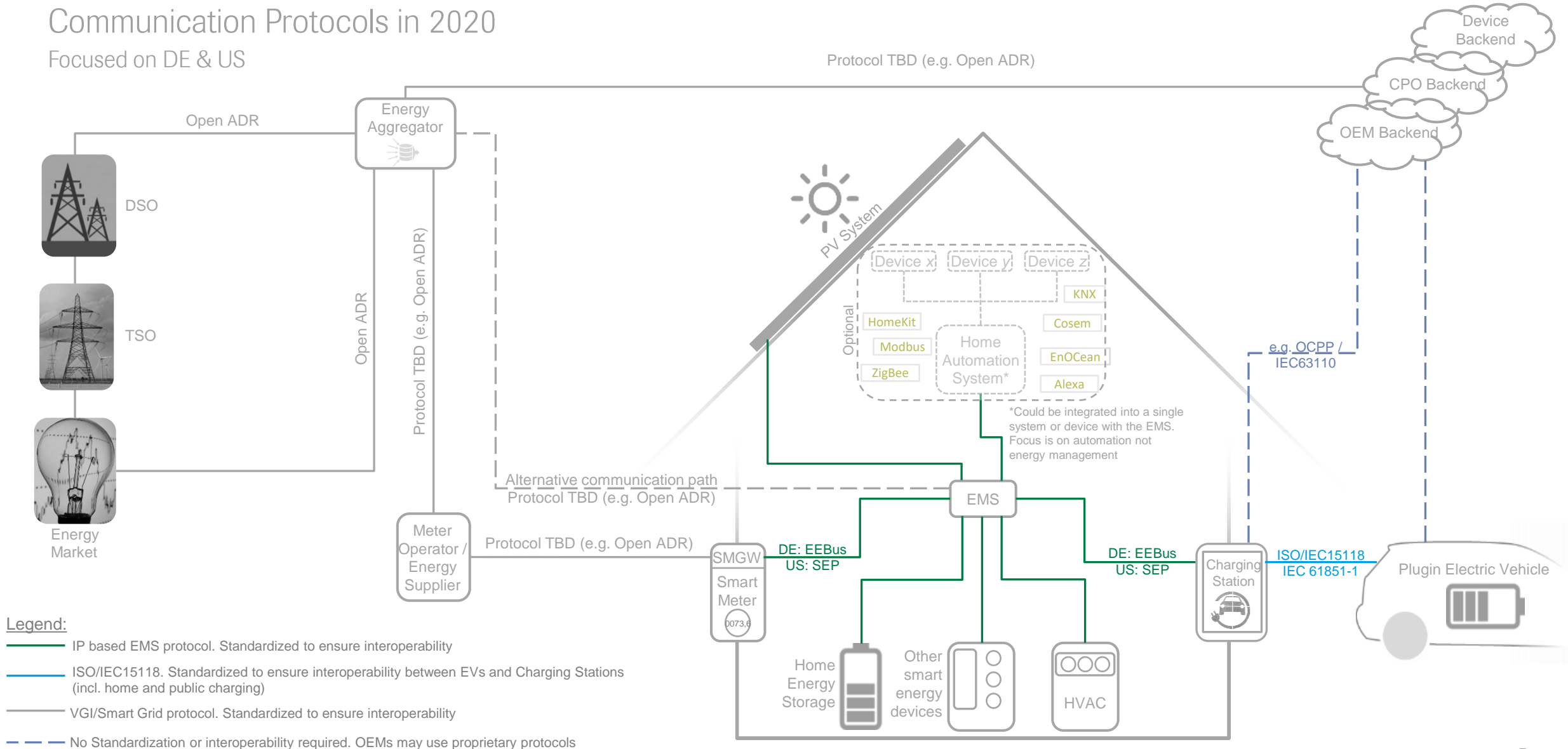


- Only a single certified meter shall be required
- Energy/Grid market signals are received by the EMS (e.g. price/kWh & power availability over time)
- Customers are offered incentives or bonuses for offering flexibility (e.g. adjusting household consumption or even feeding into the grid)
- Flexibility shall be a positive experience for the customer (e.g. the required energy is received but at a lower price)
- The EMS automatically determines the amount of flexibility offered by the customer based on their energy demands (e.g. is it possible to charge the EV later)
- Ripple Control Receivers shall be avoided

Customer Energy Management System

Communication Protocols in 2020

Focused on DE & US



Customer Energy Management System

Communication Protocols in 2020

Focused on DE & US

