Electric Vehicle Infrastructure

Trusted solutions
With an experienced partner

ABB is the global leader in EV Infrastructure with thousands of fast charging stations deployed around the world.

Our EV infrastructure mission is focused on reliable, future-proof technologies and smart connectivity solutions while advancing the next generation of electric vehicles.

Why choose ABB?
ABB is a global leader in EV infrastructure solutions for diverse regions and markets, including thousands of charging systems in North America. Our charging system product development and deployment experience goes back more than a decade; boasting the largest fast charging installed base in the world - installed in more than 80 countries.

ABB’s EV charging technology and services are committed to future-proof strategies, including a focus on long-term reliability, hardware and network interoperability, best-in-class 24/7 connected services – and a proactive product roadmap built upon close relationships with automakers from around the world.

For more than 135 years, ABB has led in electrification technology from source to socket. We are recognized as one of the world’s most innovative companies in addressing many energy challenges of the future, including reliable power distribution, advanced power conversion, smart energy management and sustainable transportation.
Fast charging technology

### Hardware portfolio

**Terra DC Wallbox**
- Compact 24 kW output power
- Single or dual outlet CCS, CHAdeMO configurations
- 1-ph 208/240 V or 3-ph 480 V
- For high voltage charging needs, up to 920V

**Terra DC Fast Chargers**
- All-in-one charging from 50 kW to 180 kW
- For retail, highway or fleet sites
- Single or dual outlet CCS, CHAdeMO configurations
- For high voltage charging needs, up to 920V

**Terra HP High Power Charging Systems**
- 175 kW to 350 kW output power, ultra fast charging for next generation BEVs
- High power and high voltage design ideal for highway corridor sites
- Designed for maximum customization and enhanced user experience

**HVC Depot and Opportunity Charging Systems**
- Overnight and on-route charging technologies for eBus, eTruck and scaled fleets
- 50 kW to 600 kW fast charging solutions up to 920 VDC for every commercial vehicle

### Typical fast charging applications

- Grocery, retail and shopping complexes
- Travel plazas and roadside convenience sites
- Transit depots and on-route charging
- Last-mile delivery fleet depots
- Medium- and heavy-duty truck depots
- Auto dealerships
- City and/or community parking

### Leading with reliability, intelligence and trust

#### Product Quality
- High quality enclosures and components, regulatory compliance
- Designed for safest installation, fast maintenance and service
- Daytime readable and customizable touchscreen displays
- Modular power electronic architectures for greater redundancy and uptime
- Low noise well-designed cooling systems
- EMC certifications for highest safety near medical devices such as pacemakers
- Third-party tested and verified to all latest electrical safety certifications and standards

#### Best in class connectivity
- Flexible connected services supported by ABB software engineers
- Experience integrating many networks and back office systems
- Remote monitoring, diagnostics and software upgrades
- Flexible user access and payment options enabled (RFID, PIN codes, smartphone, credit cards and contactless payments)
- Compatible with OCPP 1.6, Autocharge, ISO 15118 and smart energy APIs
- Supporting full interoperability for optimal owner, operator and host choice

#### Experienced, bankable partner
- Thousands of DC fast chargers deployed in all regions, environments and sites
- Extensive OEM R&D relationships, performance validated at labs and test tracks around the world
- Fast delivery times for standard products
- 24/7/365 network with regional service teams and experienced field engineers
- Leading in advanced high power and high voltage charging technology
- Focused R&D centers for power electronics and e-mobility technologies
- Company wide mandates for safety, sustainability and OpEx
- Fully committed to EV Industry with proactive product roadmap for the next generation of electric vehicles
ABB has charging systems deployed all over the world in many applications serving varying user needs.

References include the first high power charging stations installed in the Americas with Electrify America and EVgo; the first electric bus systems in many countries; and thousands of metro DC fast charging stations serving EVs in more than 80 countries.