



# We Develop Solutions To Move E-Mobility Forward

ABB lays the foundations for a future of smarter, reliable, and emission-free mobility, accessible by everyone, everywhere



- One stop provider for hardware, software, connectivity and services
- Tailor-made solutions in every scale. From chargers for private homes to public charging infrastructure.

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**ABB is championing e-mobility for a sustainable future, in which smart, reliable, and emission-free mobility will be accessible to everyone, everywhere.**

**As a title partner of Formula E, the all-electric international FIA motorsport class, ABB is pushing the boundaries of e-mobility to contribute to a sustainable future. ABB operates in more than 100 countries with some 147,000 employees. [abb.com](http://abb.com)**

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# We develop solutions to move you

## Bring your challenges to us

ABB has years of experience in designing, manufacturing, installing, and maintaining electric vehicle charging infrastructure as a provider of one-stop, source-to-socket solutions.

Since 2010, ABB has been leading the e-mobility revolution with charging infrastructure suitable for any location combined with connectivity services. With over 100 years' experience in delivering critical grid connection and power distribution infrastructure, we develop smart solutions to move e-mobility forward.

We are at the forefront of EV charging technology, working in partnership with major vehicle manufacturers to develop the charging systems that will power the next generation of electric vehicles.

Whatever your needs, we provide tailor-made solutions scaled to suit your situation – from chargers for use in private homes and residential locations to public car-charging stations and heavy vehicle charging infrastructure.

That includes all the equipment you need to run a successful charging operation. We are your one-stop provider for hardware, software, connectivity, and related services.

Just bring your challenges to us. ABB is ideally positioned to address the intricacies and demands of each project. Our solutions will move you – both today and in the future.



# Writing the future together

## Because every project is different

The way the world generates and uses energy is constantly evolving.

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01 We provide fast charging stations for every location. With high power for next generation EVs

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02 ABB offers a complete portfolio for charging heavy electric vehicles such as buses and trucks with a CCS connector or automatic connection system

From the integration of clean, renewable energy sources to the rapid growth of electric vehicles, ABB is playing a leading role in developing solutions that support your ambition to provide sustainable mobility going forward.

There are a host of different aspects to be considered when designing a solution that fits your individual needs. From legal stipulations and locations to customer payment solution for different business models, we carefully analyze all your requirements in order to provide you with an optimal solution.

### Solutions for every requirement

Each industry has a different range of needs and requirements. For example, critical infrastructure and shipping ports have different sets of regulations that all need to be met. Environmental conditions must also be taken into account for the safe operation of the charging station. The same applies to structural constraints, such as high-rise, multi-unit apartments compared with single-family homes.

Another important aspect is the availability of energy and grid capacity, which can differ between cities and rural areas. Our solutions combine the availability of conventional and renewable sources of energy to ensure a reliable and secure supply at all times.

The design of the charging stations also differs, depending on requirements. Passenger cars need a different infrastructure to heavy vehicles such as buses. Public charging stations require a higher performance than those designed for private households. Autonomous electric vehicles automatic connection features versus manned cars.

### Power to your business

Last but not least, the business model also has an important influence on the type of charger connectivity required. In order to successfully run a commercial charging network in a dynamic environment it is crucial to connect EV chargers to the Internet. Targets such as zero emissions require intelligent control of the use of renewable energy, for both public and private charging stations.

Finally, implementation timelines and the known need for future expansion are also a challenge for each project to succeed. We consider all conceivable aspects in order to develop and realize the optimal solution for your project. Let us write the future together.





# Enabling your charging operation through intelligent connectivity

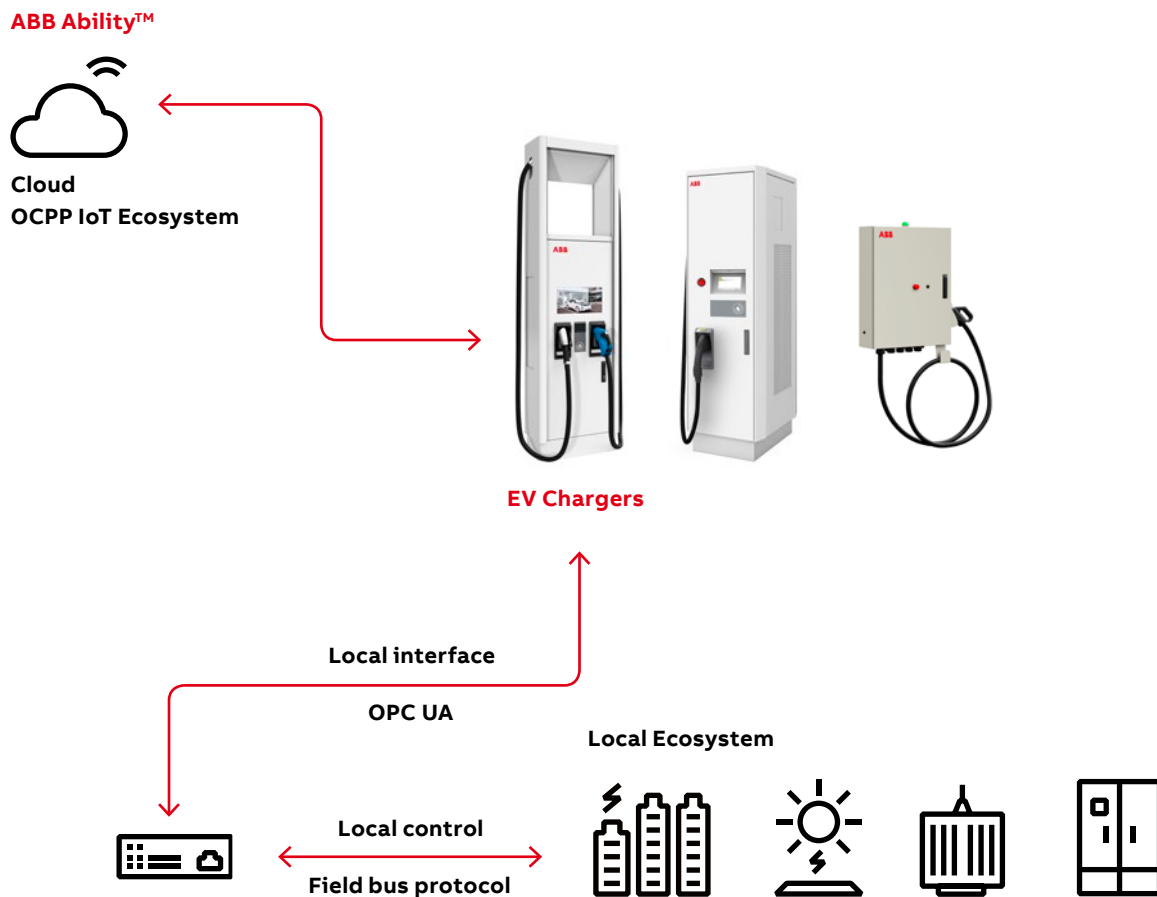
We develop solutions that offer simple and secure operation of infrastructure using a combination of local and cloud protocols

## Cloud Connectivity

The ABB Ability™ Connected Services platform incorporates many years of experience in connecting thousands of chargers to the Internet. Connectivity helps EV charging network operators to optimize operations with deep insights and statistics on energy usage at the charger, site, and network level. The remote control OCPP IoT Ecosystem enables reduced total cost of ownership with 99%+ uptime through remote diagnostics and solution deployment.

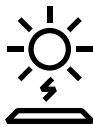
## Local Connectivity

On-site management of local assets, such as an energy storage system, can bring significant operational savings through balanced energy management. The EV chargers can be upgraded with features that enable connectivity via OPC UA. OPC UA is the most widely adopted interoperability standard for secure, reliable, and platform independent information exchange in the world, with thousands of OPC-compliant products available.



# Delivering more value to you

## With end-to-end solutions



### **Renewables**

Reduce emissions with seamless and intelligent integration of alternate clean, power sources.



### **Battery Energy Storage**

Reduce utility demand charges by up to 73% through peak shaving.

Reduce the need for drastic capex investment where sufficient “head-room” capacity does not exist today in the grid connection. Respond more dynamically to how demand is changing.

Additional revenue generation possibilities by providing grid ancillary services, such as demand response, back to utility for electric vehicles around the world and is a global leader in this market.



### **Integrated grid connection and distribution solutions**

Modular, skid-mounted solutions reduce installation costs by 30%.

Reduce risk by over 90% that modifications will be required on site.

Easy scalability for further expansion as power demand for electric vehicles increases.

Reduce energy costs by 5-10% with no impact to operations with intelligent load management.



### **Fleet Management**

Optimize fleet resources with greater visibility to charge status and easier integration in fleet management and scheduling systems.

Comfort and increased range – connectivity solutions to bring electric vehicles to the perfect cabin temperature prior to station departure.



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