



Nahaufnahme des Stromversorgungskabels zum Aufladen eines Elektroautos | © Getty Images/AndreyPopov

## Electric Vehicles Charging Infrastructure

Electric mobility will play a key role in the future energy system in Germany. A growing share of renewable energy will increasingly be used to electrify the future transport sector. Electric vehicles will therefore have a big impact on the electricity grid. Germany has set itself the goal of becoming the leading market and provider for electric mobility by 2020 as part of its longterm zero emission mobility vision. Although the electric mobility market is still small in absolute terms, domestic demand for electric vehicles is rising. The upcoming demand for charging infrastructure and related innovation is huge. Be a part of this dynamic market.

Germany Trade & Invest can help international companies looking to cooperate with German partners, become involved in demonstration projects, and expand through direct investment.

## Latest Publication



markets Germany - Issue 2/2018 "Vive La e-Evolution" | © GTAI

## markets Germany - Issue 2/2018

### Vive La e-Evolution!

The e-mobility industry in Germany is on course for mass market penetration by 2020, with production, R&D and supporting technologies ramping up to meet that target. Is now the perfect time to invest? [More \[pdf\]](#) ▶

## Market Data and Trends

- Plug-in and hybrid EV sales grew 20% in 2018 to 68,500 vehicles.
- Charging station installations grew 25% in Germany in 2018.
- As of September 2018, Germany had about 11,740 public charging points for standard charging at 5,890 charging stations, including 1,635 fast charging stations.
- Over 600 million euros investment in battery technologies over past three years.
- The majority of public EV charging stations in Germany are in metropolitan areas.

- The public transport sector in Germany offers further opportunities for electric charging infrastructure providers. 11 billion passenger journeys are made by public transport in Germany every year. Cities all over the country have started transitioning to low and zero emission fleets.
- The National Platform for Electric Mobility forecasts huge demand for charging stations in Germany by 2025:
  - 2.4 – 3.5 million private AC charging points in domestic garages, parking spaces, and employee parking lots
  - 130,000 – 190,000 public AC charging points and 13,000 – 19,000 DC charging points e.g. in customer parking lots, truck stops or gas stations
- In the future, public charging stations will likely be equipped with batteries and smart grid capabilities.
- The 2011 Energy Industry Act brought in some essential changes, creating a legal basis for smart grids in terms of energy law, data protection, and data security.

## Increasing electric mobility uptake in Germany

- Incentive programs for charging infrastructure are offered in several federal states, e.g. in North-Rhine Westphalia, Baden-Württemberg, and Bavaria.
- The German government offers sales subsidies for new electric and plug-in hybrid vehicles.
- Passenger electric vehicles enjoy motor vehicle tax exemption for 10 years.
- If employees recharge their electric vehicles at their place of work, this will no longer be deemed a taxable benefit in kind.

## Testimonial



**Zheng Fan, Managing Director XCharge Europe GmbH | © XCharge Europe GmbH / GTAI**

### **Zheng Fan, Managing Director, XCharge Europe GmbH**

"Hamburg is a pioneering place in electromobility, in no other city is the number of charging stations per person higher. The ITS World Congress will be here in 2021, and the rails of the ‚new silk road‘ will end in Hamburg’s harbour. These are just some of the reasons we decided to make this Hanseatic city the location of our European headquarters.“ (2018)



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