



electreon
Charging the way forward

Port of Karlsruhe (EnBW) Project, Germany



Period:

2020 - 2026

Transport Operator:



OEM Partner:



Project Sponsor:

EnBW Energie Baden-Württemberg
AG (EnBW)



Additional Partners:

Chariot Motors, Eurovia, OMEXOM

Size:

Initially, 100m of wireless Electric Road for dynamic charging of an e-bus with an additional static wireless charging station at the client's facilities, followed by an additional 500m of wireless Electric Road in later phase

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In August 2020, in coordination with its European infrastructure and urban development partner Eurovia, Electreon initiated road work construction on its wireless Electric Road System project in Germany to power a bus line which connects the new EnBW training campus in Karlsruhe's Rhine harbor to the local public transport system hub as part of the Fettweisstraße route.

The first phase of the project, which has been operational since early 2021, includes a 100m wireless Electric Road; a stationary wireless charging station; and a HIGER e-bus equipped with Electreon's wireless power transfer receivers. Electreon also provides ongoing installation and maintenance services. After successful testing, Electreon plans to expand the dynamic wireless charging road to an additional 500m section. EnBW, which is one of Germany's largest energy companies and electric mobility providers, is participating in the overall project management, providing the grid connections, engaging in monitoring of the system, and is responsible for communicating with the relevant local authorities. With this project, EnBW is testing the suitability for everyday use of this innovative charging technology.

With this pilot, Electreon expanded the number of vehicle platforms utilizing its receiver technology - which, at the time of the project's kick-off, already included electric buses with supercapacitor energy storage and a long-haul e-truck. The HIGER e-bus is being operated by VBK, the Karlsruhe Transport Company, which is the municipal transport company of the city of Karlsruhe. Technical support for the bus is being provided by Chariot Motors, HIGER's distributor in Europe. The road work was done by Eurovia and electric work by Omexom, both subsidiaries of Vinci.

Wolfram Münch, EnBW's Head of Research and Development has stated regarding the pilot, "The construction of the charging track for e-buses is intended to show us what role wireless charging can play in future offers for our customers, as a sustainable infrastructure provider, it is also important for us to test new technologies that will allow us to make even better use of electricity for mobility and reduce emissions."

Oren Ezer, CEO of Electreon has stated, "We are very excited to see EnBW's great commitment and support for advancing innovative technologies that can increase the penetration of electric mobility to Germany and globally. Germany is a leader in promoting climate-related solutions and we believe that this project will be a great entry point for the Electreon's solution to the German market."