



electreon
Charging the way forward

Balingen (ELINA) Project, Germany



Period:

2022 - 2023

Transport Operator:

To be confirmed

OEM Partner:



Project Sponsor:

German Aerospace Center (DLR)



Additional Partners:

EnBW, Karlsruhe Institute of Technology (KIT), Stadtwerke Balingen

Size:

1.00 km (0.62 mi) of wireless Electric Road for dynamic charging of an e-bus, with additional static wireless charging stations along the bus route

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In December 2022, Electreon announced plans to deploy their technology as part of the first wireless Electric Road System on a public road in Germany. The ELINA project will feature 1 km of Electreon's wireless dynamic charging, installed in two phases on Wilhelmstraße, a public road in the town of Balingen in the south of Germany, and will charge an electric bus. The project will also feature two additional static charging stations at strategic locations along the bus route, and will also involve partnerships with other research institutes, infrastructure, and public works companies, including the Karlsruhe Institute of Technology (KIT), Stadtwerke Balingen, and EnBW, who will be managing the project and charging infrastructure. The ELINA project's expected construction start date and operational deployment is set for 2023.

EnBW's partnership with Electreon follows their successful project in Karlsruhe, Germany, where a wireless Electric Road System powers an e-bus while driving on a private road at the EnBW training center campus. The primary goals of the ELINA project are to continue showcasing wireless charging to the public by underlining its benefits and effectiveness specifically for Germany's public transport sector. The project will also introduce technologies to assist transport operators better plan for the deployment of wireless charging solutions. The project is being sponsored by the German Aerospace Center (DLR), and Electreon will receive up to 3.2 million euros to deploy their dynamic and static wireless charging infrastructure.

Dr. Maximilian Arnold, EnBW project lead, has stated, "The project in Balingen shows how innovatively and consistently we are promoting e-mobility in Germany. We have a holistic approach and want to make wireless charging technically fit for German public transport. This also includes convincing authorities, energy network operators, bus operators, and the general public of the opportunities. As a leading provider and innovation driver in the field of charging infrastructure, we are pleased to be part of this promising project with partners such as Electreon, and the Karlsruhe Institute of Technology."

Dr. Andreas Wendt, CEO of Electreon Germany GmbH, has stated, "The aim of this project is not only to open up wireless charging to the public in Germany. Other significant aspects include the development and use of a tool that will assist public transportation planners in where to install the inductive infrastructure for a specific town or region. We have already shown in our joint Karlsruhe project with EnBW how effective, safe, and easy to deploy wireless dynamic charging is. We hope this is the start of many more projects on public and private roads in Germany."