

Challenges for a WPT 4 Waiting Lane Concept - Laboratory and Practical Experience

Authors : Julia Langen

Abstract : This article describes the challenges of a wireless charging system for a cab waiting lane in a public space and presents a concept for solving them. In this concept, multiple cabs can be charged simultaneously and during stopping and rolling. Particular technical challenges are a coil topology that meets the EMF requirements and an intelligent control concept that allows the individual coil segments to be switched on and off. The charging concept explained here is currently being implemented as a pilot project, so that initial results on the operation can be presented.

Keywords : charge lane, inductive charging solution, smart city, wireless power transfer

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