

Abstract

This presentation will discuss the current status of stationary wireless electric vehicle charging and future requirements towards semi and dynamic wireless charging. Such technology is known as resonant magnetic induction charging, also referred to as wireless electric vehicle charging (WEVC). Future requirements for a WEVC system are: low cost, small package, high power transfer and interoperability. This presentation discusses interoperability requirements as a key factor for successful deployment of WEVC systems. One key aspect analyzed in this presentation is primary and secondary coils requirements as they relate to interoperability. Theoretical and practical studies have been conducted and a suggested interoperable solution for stationary and dynamic charging is going to be discussed.