

Direct on-board AC-DC charging versus traditional charging

The goal of the project: Eliminate a power conversion stage, and in this way, reduce losses, component count and environmental impact

Core disruptive feature: Use MBDS (Monolithic bidirectional blocking and conduction semiconductors) to enable the features given by the goal.

Expected result:

Proposals of control and modulation

Comparison towards the classical solution.

Quantification of component count savings & losses

Project Leader: Torbjörn Thiringer, torbjorn.thiringer@chalmers.se

Main researcher: Babak Alikhanzadehalmadari, Chalmers. Project is conducted in cooperation with Volvo Cars and Rise

