Athens microgrid energy storage

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The dynamic inductive charging system, considers the wireless transfer of energy while an EV moves over the charging station. It comprises the magnetic coupler, compensation capacitors and the DC/AC converter that provides the required high frequency current to the charger. The implemented control scheme can significantly increase the efficiency of the system, while maximizing the energy transferred to the vehicle when it moves over the station. A relevant laboratory model has been set-up.

A laboratory setup for performing anti-islanding tests for both AC and DC systems has been developed based on the IEEE 1547.1 standard. PHIL tests are performed, that allow convenient and accurate detection in real-time simulation.

The electric railway systems software tool simulates the operation of railway systems, aiming towards the optimization of their performance. The tool can model all kinds of railway electrical systems and main components such as rectifiers, storage devices and inverters in case of energy injection back to the distribution system.

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