

Review of Vehicle to Grid Applications in Recent Years

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Abstract : Electric Vehicle (EV) technology is expected to take a major share in the light-vehicle market in the coming decades. Charging of EVs will put an extra burden on the distribution grid and in some cases adjustments will need to be made. In this paper a review of different plug-in and vehicle to grid (V2G) capable vehicles are given along with their power electronics topologies. The economic implication of charging the vehicle or sending power back to the utility is described in brief.

Keywords : energy storage system, battery unit, cost, optimal sizing, plug-in electric vehicles (PEVs), smart grid

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