

Solar Based Wireless Electric Vehicle Charging and Transmitting Extra Power to Electricity Mains

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Abstract: *The solar based Wireless Electric Vehicle Charging (WEVC) and Transmitting Extra power to Electricity Mains has several advantages over conventional energy transmission using wires and connectors, such as flexibility, convenience, safety, reliability and all-weather operation, etc. The development of this system will certainly promote the popularization and industrialization of EVs, and also an individual can earn by transmitting extra power to electricity mains. In this project we will be implementing a system for charging electric vehicles wirelessly by using the solar power. In order to design and implement we divide our project into two parts, in the first section we are trying to optimize the existing solar power system by transmitting extra power to electricity mains. In the second section we are designing the wireless power transmission system based on inductively coupled power transmission technology using the optimized solar power as input*

Keywords: WEVC

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