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Wireless Charging of an Electric Vehicle using Solar and Wind

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Abstract: *Day by day new technologies are making our life simpler also WPT (Wireless Power Transmission) has been attracting a wide range of subjects in various fields and also becoming a highly active research area because of their potential in providing high technology to our daily lives. WPT will be mandatory to use in the near future because these technologies enables the transmission of electrical energy from a power source to an electrical load across an air gap without interconnecting wires. As the Non-renewable resources on our planet are drastically decreasing even as we speak, our future will be completely dependent on the Renewable resources such as Wind, Solar, Tidal energies, etc. Here we make use of hybrid power generation which is wind and solar power generation for generating DC power. So we worked on a project by combining these two concepts, Hybrid Power Generation and Wireless Power Transmission. Hence the title for the project is "Wireless Charging of an electrical vehicle using solar and wind". In this paper, we expose and discuss the importance of application of recharge systems to an electrical vehicle. In addition to its vital role in supplying vehicle with the required power recharge system has many type the most important of then is wireless charge system that transmits power from transmitter to receiver without any contact. It is obvious that this power is variable in relation to the speed and has a main function which is loading the battery. In this work our main objective is to focus on the change of state of charge (SOC).ext.*

Keywords: Wireless Charging