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Solar based EV Charging Station using RFID

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Abstract: A new and emerging technology in the electricity and transportation industries, electric vehicles offer numerous advantages from both an economic and environmental standpoint. This study provides a thorough analysis of different types of electric vehicles, as well as the accessories that go with them, including battery chargers and charging stations. Comparing the electric range, battery size, charger power, and charging time of commercial and prototype electric vehicles is done. The different kinds of electric car charging stations and industry standards have been described, and the effects of electric vehicle charging on utility distribution networks have also been covered.

Keywords: Battery charger, charging station, electric vehicle, standards

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