System Design for a Cost-Effective Solar-Powered Electric Vehicle Charging Station for the Fuel Pump

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Abstract:
This paper presents how to make a cost-effective solar-based electric vehicle recharging station. Also, study on the stand-alone PV charging station and design for a normal fuel station. In an increasing country like Bangladesh there the utilization of renewable energy resources is the most important sector. In Bangladesh, rechargeable Electric vehicle's worth are growing day by day. But thus electric vehicles consume a lot of energy from the main grid. But to run this vehicle's it is needed to think of alternative sources of energy and have to remove them from the main grid. That's why a solar power charging station is designed so that can reduce vehicle electricity dependence from the main grid and an electric vehicle can be charged outdoors and environment-friendly. This paper contains an analysis and design of a solar-based recharging station for electric vehicles, and it is designed for a fuel pump