

ABSTRACT

DESIGN OF E-BIKE USING GENERATOR AND SOLAR CELL

In today's era, consumption of fossil fuels is very large. even more on the transportation sector. Therefore, there is a demand for an alternative energy to replace fossil fuels. Renewable New Energy (RNE) is highly needed to replace fossil fuels which is increasingly depleted, Alternative fueled vehicles are vehicles that can be operated using fuel from renewable energy. For example, an electric bicycle that use electrical energy derived from solar heat by using solar panels to charge the batteries, and also a charger that comes from the kinetic motion of the generator rotation which is connected to the bicycle pedal. Before connecting to the battery, we added a stabilizer so that the current and the voltage that came out from it stays stable. And we also added a solar charger so that the charging process remains under control. it aims to reduce the use of fossil fuels so that this resource would not get too much depleted and also helping our earth to be a better place.

Keywords : BLDC Motors, Electric Bicycles, Generators, Solar Panel

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