

# Generalised EV Conversion Kit

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**Abstract:** The world is looking for alternate sources of energy to fuel the vehicles, electricity is one of the best alternatives available. But while we buy new vehicles from the market there is still a problem that arises where there are already existing vehicles in the market, where we can just make changes to the already existing models by replacing them with all the necessary components and systems. As also the problem in this space is that there are different types of models available in the market from different manufacturing companies. Hence instead if we need to retrofit a vehicle we need to design a kit for each of these models. Though this process is relevant it is a time-consuming process. In order to solve this problem we are classifying the vehicles into two categories specifically Motor Cycle Without Gear [MCWOG] and Motor Cycle With Gear [MCWG] and then design a retrofitting kit for these categories instead of the vehicles. This project focuses on MCWOG category of vehicles where an expected model is designed using the SOLIDWORKS and the drive cycle analysis of the kit was studied in the MATLAB/SIMULINK model and is presented in the paper. The following project shows adaptation of new technology, its feasibility and reuse of the old vehicles.

**Keywords:** EV

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