

Frictionless Electricity Generation by Using Flywheel For Electric Vehicle

R.S Shelke, Darade Akshay Dattu, Khairnar Ajit Annasaheb,
Kathar Priyanka Sanjay, Siddharth Kiran Jadhav

Department of Mechanical Engineering
Sir Visvesvaraya Institute of Technology (SVIT), Nashik, Maharashtra

Abstract: *The intention of this project is to build a straight forward powered generator from a used bicycle wheel and to use it to power light bulbs, cell phones, laptops, and other small appliances. This project will help to develop engineering skills while learning about a clean way of generating electricity and satisfying our basic requirement. We are going to use the hard drive magnet and inductive coil to generate electricity due to which our mobile phone will be charge and followed by ac to dc converter. This is totally clean way of generating energy. As fuel is not a renewable energy source and the prices are increasing day by day. It will not be affordable by a common man after some period. Here no fuel is required to generate electricity, so everybody can afford this method for power generation also it eliminates the emission of CO₂ which will reduces the pollution. Conventional methods for generating electricity make use of dynamo and wind turbine, but they have disadvantage that they produce friction and reduces speed which require more efforts. For the project to work we need strong electromagnets so we have used Neodymium magnets and also used coil. The basic idea of this project comes from the functioning of motor, that is how it rotates in the magnetic field and cut's the magnetic line and how flux is introduced into the coil. The motivation behind the project is to generate electricity without having any friction and without using natural resources.*

Keywords: *Flywheel, Electricity, Renewable Energy, CO₂, Flux.*

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