

Name of Applicants:

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Year: 3rd Year

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Title of the Project: Electricity Generation through Railway Tracks

Project Description:

- In this project generating electrical power by running train on the railway track
- Non-conventional energy using railway track needs no fuel input power to generate the output in the form of Electrical power
- Using Faraday's Law of Electromagnetism
- The system carries train model, rail model, coils, charge controller, battery and inverter control
- Its so simple this project is implemented to all railway track.

Working:

- Train have magnet
- At bottom of track 2 pairs of coils
- Movement of train on track induces emf
- Voltages at the end of coils
- This is ac use rectifier to convert to dc by Rectifier
- Store that dc voltages in battery
- Protect the battery from overcharging by charge controller
- Inverter is used to convert 12V dc to 220V ac

Estimated Time: 4-8 weeks

Estimated Cost: >10000.

Skills Required: Electrical Machines, Power Electronics, Matlab.