

# POWER GENERATION USING ROAD SPEED BREAKERS

A PROJECT REPORT  
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## ABSTRACT:

In the present situation power becomes basic need for human life. Energy is responsible for major developments of any country's economy. At present most of the energy is developing by conventional energy resources. According to the increasing rate of population, the conventional energy resources cannot meet the requirement of people and moreover, these conventional energy resources are polluting the environment and responsible for Global warming. So non-conventional energy sources are developed to meet the requirements and to reduce the environmental pollution. In that sense some inventions are discovered based on speed breakers by taking those as reference we developed a mechanism by using rack and pinion gear. This project develops power generation through speed breaker by making gear arrangement and using electronic gadgets. When vehicle is in motion it produces various forms of energy like, frictional force, kinetic energy, potential energy between vehicles wheels and road. We can tap the energy generated by moving vehicles and produce power by using the power generation setup. In this process we convert the potential energy to mechanical energy through rack and pinion mechanism and then this energy is converted into electrical energy using generator which we can use for street lights (Load) and can save at least some amount of electrical energy.

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