

## ABSTRACT

Electrical energy plays a vital role in day to day life of every human beings. Along with the increase in population the need of electricity gradually increases , the resources for electricity generation also needs to be increased . Which rises the need for alternative source for generation of electricity. Most of the source for generation of electricity causes environmental pollutions , the renewable source used for electricity generation like solar, wind mills are highly dependant on climatic factors, the system used in this project uses rack and pinion mechanism which converts reciprocating motion to circular motion and circular motion to reciprocating motion. In this system , the reciprocating motion is converted into circular motion which will be used to run a turbine which will generate electricity. This project deals with usage of “Human locomotion” to generate electricity . The whole bio energy is being wasted but with a possible technical implementation of this energy can be harnessed ,which will be of optimum use in a densely populated region. Although the power generated would not suffice the need for power in general applications, it will be sufficient enough to meet small power requirements or can be saved in batteries for future use.

## ABSTRACT

Electrical energy plays a vital role in day to day life of every human beings. Along with the increase in population the need of electricity gradually increases , the resources for electricity generation also needs to be increased . Which rises the need for alternative source for generation of electricity. Most of the source for generation of electricity causes environmental pollutions , the renewable source used for electricity generation like solar, wind mills are highly dependant on climatic factors, the system used in this project uses rack and pinion mechanism which converts reciprocating motion to circular motion and circular motion to reciprocating motion. In this system , the reciprocating motion is converted into circular motion which will be used to run a turbine which will generate electricity. This project deals with usage of “Human locomotion” to generate electricity . The whole bio energy is being wasted but with a possible technical implementation of this energy can be harnessed ,which will be of optimum use in a densely populated region. Although the power generated would not suffice the need for power in general applications, it will be sufficient enough to meet small power requirements or can be saved in batteries for future use.