**POWERWALK**

**ABSTRACT**

This project describes about the generation of electricity while walking using Piezoelectric materials. The principle behind this is the nature of piezoelectric materials to produce electricity when they are subjected to mechanical stress

Human walking carries a lot of energy and that energy is just wasted as heat. Instead of wasting the energy as heat we can use it to generate electricity which is the advantage of this project

The energy produced is stored in battery which can be used to **1. Glow LED bulbs anywhere and in any situation for example power cut 2. Glow LED strip around shoe which will help us at the night time**

The areas which have power cuts continuously can make use of these LED bulbs which glow with the help of battery got charged when they used these shoes. This battery can also be used for other electronic appliances (like laptop etc)

The LED strip around the shoe can be switched on when we want to use it. It is mostly useful for farmers who will be working at night in farm

By strategically placing piezoelectric materials on busy roads, the energy generated by the pedestrians and vehicles can be used to power street lights

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