

Piezoelectric transducer

T JOHN INSTITUTE OF TECHNOLOGY / SECOND SEM

PROBLEM STATEMENT

Wastage of kinetic energy and static/mechanical energy from moving vehicles and pedestrians and paying electricity bills

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INTRODUCTION

To build a smart road that can generate energy from weight, motion and vibration.

The system can be configured to generate and store energy from roads, airport runways at the same time as delivering real-time data on the weight, frequency and spacing between passing vehicles.

The harvested energy can be transferred back to the grid, or used for specific public infrastructure purposes such as lighting and widespread use of the system would enable far greater scrutiny and hence understanding of the behaviour of road vehicles.

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IDEA GENERATION

To create a smart road. This means that parasitic energy of busy roads and runways near population centers can be converted into electrical energy that can run public lighting, or fed back into the grid.



PROTOTYPE IMAGES
