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SELF ILLUMINATING BRTS STOP (SIBS) USING PIEZO-TRANSDUCER

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ABSTRACT

This project involves discovering new techniques for sustainable development and making the bus rapid transit system (BRTS) corridors more energy efficient and cost efficient from development point of view. It is more energy efficient than conventional bus systems. The aim of this paper is to develop the piezoelectric material as a power generator for these applications. This project supports the utilization of this force per area power by converting it into electrical energy through the means of piezoelectric effect which is the ability of certain materials to generate an electric charge in response to applied mechanical stress. This energy could be stored and used as per the requirement of the BRTS corridors making it more cost efficient by reducing the costing of lightening the corridors.

KEYWORDS*:* Introduction, Background, Present Energy Scenario, Cost Consumption in BRTS, Loss of Energy, Alternative Source, Where & How to Implement, Implementation Analysis, Advantages, Applications, Future Vision, Conclusion