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RESEARCH ARTICLE

DESIGN AND IMPLEMENTATION OF HIGH EFFICIENCY REMOTE CONTROL SYSTEM FOR INTELLIGENT STREET LIGHTING

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Abstract

This paper is aimed to design a system which has a special feature that could help to reduce the consumption of the electric and human energy to the maximum ways possible. The system is designed in such a way that it can be controlled and monitored and can be used even in remote areas to avoid wasting of human power and money. The controlling features present in the system helps in optimizing power management and the efficiency of the street lamp usage to have a maximum output. The system uses microwave wireless devices which enable more efficient street lamp-system management and plays a vital role for interfacing the street light with control monitoring section. There is a sensor combination to control the desired system parameters. The information is transferred by MIWI transmitters and receivers to check the status of the street lamps and take preventive measures in case of failure. This information analyzes the vehicle counts for survey mode.

Keywords-Street lamp; Power management; sensors; efficiency; MIWI transmitters

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