PROBLEM DEFINITION

TITLE: Smart Street Light Metering System

DESCRIPTION:

Design a Street Light Metering System for monitoring the power usage. It should calculate the number of units consumed during a day, month and year. Bill should be generated automatically and alert messages will be sent on high power consumption.

PROPOSED SYSTEM OBJECTIVES:

- **Objective 1**: To register the name of the area, pin code, number of light poles and units consumed which are in working condition and it will store that information into the database.
- **Objective 2**: To store the count of faulty bulbs and it will send a notification to the department to replace them.
- **Objective 3**: In our system we planned for a smart light dimming module, which will use the following approaches: The first is based on visibility i.e. if the visibility is low, the intensity of light should be maximized. The second approach is to dim the light for the streets automatically when no movement is detected and it will automatically increase the intensity of light.

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- **Objective 4**: To convey the usage of power accurately to the concerned department and should automatically calculate the bill by storing monthly unit consumption.

- **Objective 5**: The system will store the electricity consumption and it can represent electricity consumption graphically (it can generated for days , month &year).

- **Objective 6**: If power consumption goes beyond a threshold level, which is the average power consumed in the last 15 days, then the system will generate an alert message to lower the consumption.

Thank You