

GOVERNMENT COLLEGE OF ENGINEERING ERODE



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Government College of Engineering, Erode

(Approved by ANCTE, New Delhi and Affiliated to Anna University, Chennai)



B.E Electronics and Communication Engineering

PRODUCT SALES ANALYSIS

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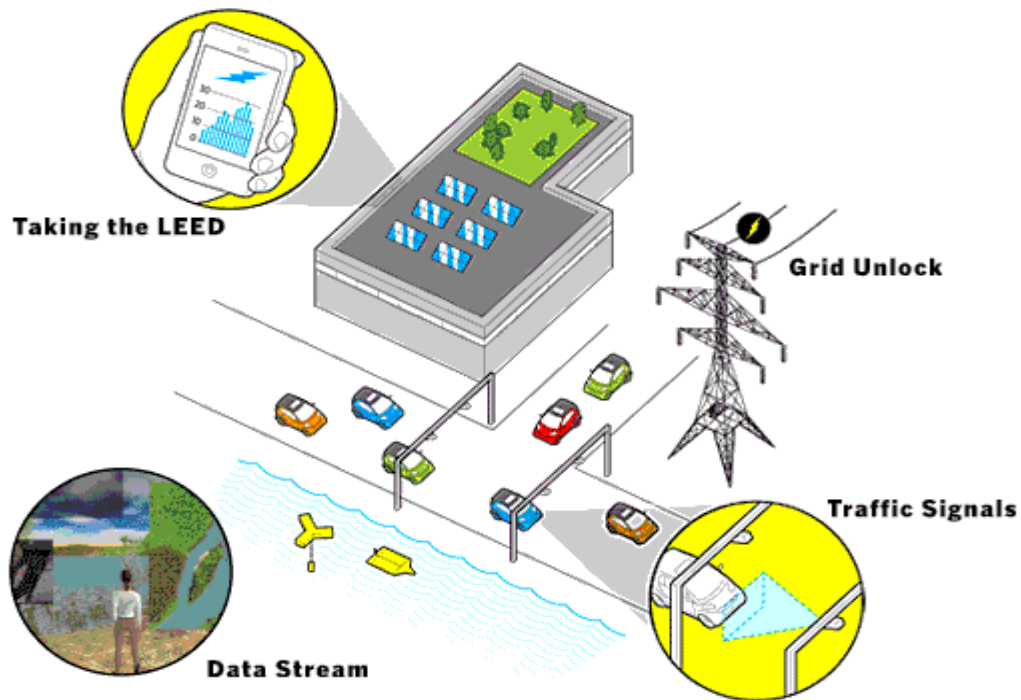
Erode ,PO ,near Vasavi College,TamilNadu-638316,

Project 4: Measure Energy Consumption

Introduction

Energy Consumption in the UK (ECUK) is a publication that complements the Digest of UK Energy Statistics (DUKES), also published by the Department for Business, Energy and the Industrial Strategy.

Whilst DUKES provides detailed information on balances, including the supply side of energy to the UK, ECUK includes supplementary analysis of consumption data to provide additional insights into the use of energy by sector in the UK.



Definition:

The problem at hand is to create an automated system that measures energy consumption, analyzes the data, and provides visualizations for informed decision-making. This solution aims to enhance efficiency, accuracy, and ease of

understanding in managing energy consumption across various sectors

Design Thinking

In this part you will need to understand the problem statement and create a document on what have you understood and how will you proceed ahead with solving the problem. Please think on a design and present in form of a document.

The diagram illustrates the calculation of energy consumption for a 60W light bulb. It is divided into two parts. The top part shows a light bulb icon labeled '60W' multiplied by a clock icon labeled '1h', with a horizontal line and the number '1,000' below the multiplication sign, resulting in '0.06 kWh'. The bottom part shows a light bulb icon labeled '0.06 kWh' multiplied by a clock icon labeled '8 h' (with 'per day' below it), which is then multiplied by a calendar icon labeled '30 d' (with 'per month' below it), resulting in '14.4 kWh per month'.

$$\frac{60\text{W} \times 1\text{h}}{1,000} = 0.06 \text{ kWh}$$
$$0.06 \text{ kWh} \times 8 \text{ h per day} \times 30 \text{ d per month} = 14.4 \text{ kWh per month}$$

Conclusion

- Domestic energy consumption keep slight increase to 2030. Population and household increase significantly offset the energy efficiency.
- Further improvement the energy efficiency especially focus on space heating.
- Promote renewable energy and nuclear power Strategy - Low Carbon Transition Plan