

IDEATION PHASE

DEFINE THE PROBLEM STATEMENT

DATE	12 MAY 2023
TEAM ID	NM2023TMID01575
PROJECT NAME	PROJECT - A Reliable Energy Consumption Analysis System for Energy-Efficient Appliance
MAXIMUM MARKS	

CUSTOMER PROBLEM STATEMENT :-

Energy efficient companies — can gain a competitive advantage over less efficient companies, allowing them to increase their profits at current product prices, or lower their prices to gain market share, or a combination of these items.

For heating and cooling services — use of efficient equipment, building adjustments in use patterns (behavioural changes, temperature modifications, etc.) and good maintenance.

Lighting — using efficient light-bulbs, changing types of light sources, maximum use of natural lighting, behavioural changes

Construction materials—ensuring that appropriate materials and controls are utilized in new and retrofitted buildings

Consumer of Appliances — High consumption of electrical appliances increases the volatility and fluctuation of power increasing the amount of power to be generated high.

<u>PROBLEM STATEMENT (PS)</u>	<u>I AM (CUSTOMER)</u>	<u>I'M TRYING TO</u>	<u>BUT</u>	<u>BECAUSE</u>	<u>WHICH MAKES ME FEEL</u>
<u>01</u>	Industry	Replacing obsolete items with new higher efficiency equipment	Waste heat recovered for use elsewhere in the plant	Utilizing existing equipment well	<u>Financial and investment barriers</u>
<u>02</u>	Transport	Ensure freight and passenger transport is carried out in the most energy efficient mode	Fleet replacement to modern higher efficiency equipment	Fuel switching	<u>Not Affordable</u>
<u>03</u>	User	Save electricity of my appliances when not in use	Energy consumed is high	No Proper indications of high power usage	<u>Irresponsible</u>
<u>04</u>	Old people	Minimize the use of electricity while the Oven or Use of Kitchen Appliances	Usage of these application requires long time of working	Cooking using this is very much time consuming	<u>Frustrated</u>