## **Ideation phase**

### **Define the problem statements**

*Date	28 september 2023	
Team ID	Proj_212174_Team_1	
Project name	Measuring energy consumption	
Maximum marks		

## **Customer problem statement Template:**

Background to the study generally, a power outage can be identified as a power cut, power failure or blackout.

Problem statement	I am	I'm trying to	but	Because	Which makes me feel
PS-1	Electric car	Much better performance wise than normal gasoline cars	Huge impact on the environment	Which can be concern for drivers	Suffering from nausea and headache
PS -2	Electricity billing	Calculate the units	Poor energy infrastructure	It suffers from a frequent power cuts	Unexpectedly high
PS-3	Electric power	Reduce the environmental issue	Misuse the electric power	Househols,offices, Etcdo not disconnect when not in use	Increase in environmental pollution
PS-4	Climate change	Causes large chuck of greenhouse gases	Blanket the earth	Generating electricity	Sun's heat
PS-5	Thermal solution	To provide heat	Steam emit heat waste that affect cloud formation and weather	Cracking of glass tumbler due to heating	Solid waste disposal

#### **Ideation phase**

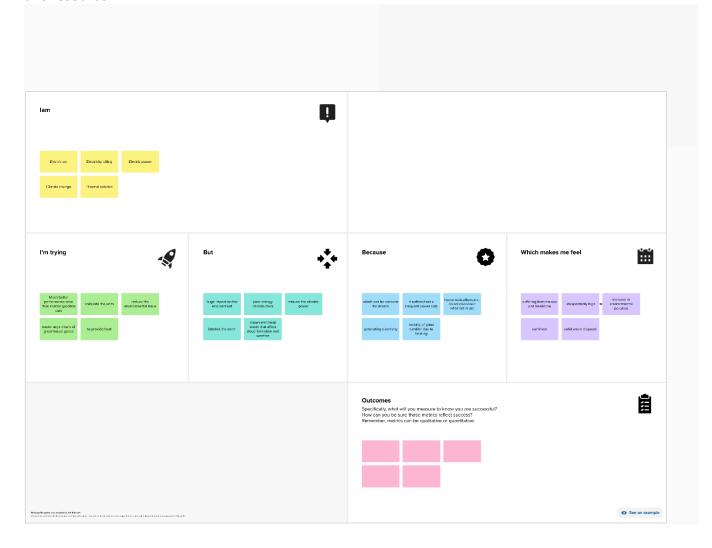
### **Empathize and discover**

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### **Empathy Map Canvas:**

We divide our energy use among four economic sectors: residential, commercial, transportation, and industrial. Heating and cooling our homes, lighting office buildings, driving cars and moving freight, and manufacturing the products we rely on in our daily lives are all functions that require energy.

One of the most important resources we must protect is energy, as its consumption has a significant impact on the environment and our economy. Monitoring energy consumption in households is a fundamental tool for achieving efficient and responsible management of this resource



## **Ideation Phase**

# Brainstorm&Ideas

Date	28/9/2023
Team ID	Proj_212174_Team_1
<b>Project Name</b>	Measure Energy Consumption
Maximum marks	

# **Brainstorm**

The idea of Energy consumption problems are defined by the Brainstrom.

The energy consumption measures are large in india now a day.

There are many types in energy consumption.





# **Problem:**

Energy infrasture is inadequate to meet the growing demand for electricity. The environmental problems related to energy consumption include air pollution, water pollutionand solid waste disposal. Electrical shortages hurt industrial output. the one of the biggest problem is the green house gas emissions.

# **Problem Solution:**

**Use Smart Power strips** 

Purchase energy efficient appliances

Reduce your water heater Expenses

Insulate your home

Clean and replace your air filters

Use Natural light

Adjust your day to day behaviours

Use energy efficiency products like, solar pannel, solar batteries, Heat pumps etc