

## **Ideation phase**

### **Define the problem statements**

<b>*Date</b>	<b>28 september 2023</b>
<b>Team ID</b>	<b>Proj_212174_Team_1</b>
<b>Project name</b>	<b>Measuring energy consumption</b>
<b>Maximum marks</b>	

#### **Customer problem statement Template:**

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

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

## Ideation phase






### Empathize and discover

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<b>Maximum marks</b>	

### 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

<p><b>I am</b></p>  <div> <div>Electric car</div> <div>Electricity billing</div> <div>Electric power</div> <div>Climate change</div> <div>Thermal solution</div> </div>			
<p><b>I'm trying</b></p>  <div> <div>Much better performance wise than normal gasoline cars</div> <div>calculate the units</div> <div>reduce the environmental issue</div> <div>states, large chains of greenhouse goods</div> <div>to provide heat</div> </div>	<p><b>But</b></p>  <div> <div>huge impact on the environment</div> <div>peer energy infrastructure</div> <div>exhaust the electric power</div> <div>blankets the earth</div> <div>cleaner than heat waste that affect cloud formation and weather</div> </div>	<p><b>Because</b></p>  <div> <div>which can be common for drivers</div> <div>it suffers from a frequent power cuts</div> <div>household electricity do not disconnect when not in use</div> <div>generating electricity</div> <div>recycling of glass furniture due to heating</div> </div>	<p><b>Which makes me feel</b></p>  <div> <div>suffering from nausea and headache</div> <div>unexpectedly high</div> <div>increase in environmental pollution</div> <div>sun/heat</div> <div>solid waste disposal</div> </div>
		<p><b>Outcomes</b></p> <p>Specifically, what will you measure to know you are successful? How can you be sure those metrics reflect success? Remember, metrics can be qualitative or quantitative.</p> <div> <div></div> <div></div> <div></div> <div></div> <div></div> </div>	

Strategy Blueprint created by Jim Kalton  
Source: <https://www.strategyblueprint.com/>

[See an example](#)

# Ideation Phase

## Brainstorm&Ideas

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

## 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.

The screenshot displays the Meta Brainstorming tool interface, which is divided into three main sections:

- Left Panel (Introduction):** Titled "Conducting a brainstorm", it explains that a productive brainstorm is a stage for fresh and generative thinking. It includes a "How to use" section with icons for "15 minutes to prepare", "20-30 minutes to collaborate", and "10-15 minutes to debrief". The Meta logo is at the bottom.
- Middle Panel (Before you collaborate):** This section provides a checklist for preparation. It includes:
  - Choose your best "How Might We" Questions:** A list of 5 "How Might We" questions to choose from.
  - Set the stage for creativity and ideation:** A list of 5 steps to set the stage for ideation, including "1. Encourage wild ideas", "2. Deferring judgement", "3. Build on the ideas of others", "4. Stay focused on the topic at hand", and "5. Share and summarize the ideas".
  - Intentional listening notes:** A list of 5 steps to listen actively, including "1. Listen for the speaker's main point", "2. Listen for the speaker's feelings", "3. Listen for the speaker's needs", "4. Listen for the speaker's values", and "5. Listen for the speaker's assumptions".
- Right Panel (Choose your best "How Might We" Questions):** This section shows a list of 5 "How Might We" questions to choose from, each with a "How might we..." prompt and a "Smart problem statement" box. The questions are:
  - How might we... [Smart problem statement]?
  - How might we... [Smart problem statement]?
  - How might we... [Smart problem statement]?
  - How might we... [Smart problem statement]?
  - How might we... [Smart problem statement]?

The bottom of the interface features a "How to use" section with icons for "15 minutes to prepare", "20-30 minutes to collaborate", and "10-15 minutes to debrief".



## 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