

# **PLUGGING INTO THE FUTURE: AN EXPLORATION OF ELECTRICITY CONSUMPTION PATTERNS**

## **1.Introduction**

### **1.1 Overview**

Plugging into the future: An exploration of electricity consumption patterns. Through this project, we can define that electricity is the basic source of energy. Electricity also referred to as an energy carrier, which means it can be converted to other forms of energy such as mechanical, energy or heat. Electricity is one of the most widely used forms of energy.

### **1.2 Purpose**

The purpose of the project is we need to know about the electricity, then want to solve the shortage of electricity and solve the problem about electricity in current life.

There would be no power to use your fridge or freezer, telephone lines would be down and phone signal lost.

## **2. Problem Definition and Design Thinking**

**Empathy Map:**



## Build empathy

The information you add here should be representative of the observations and research you've done about your users.

### Sees

What have we heard them say?  
What can we imagine them saying?

Feeling  
overwhelmed

Why  
do I need  
this?

For the  
purpose of  
this  
project

Complex  
structure

When  
can  
we  
start  
this  
project?

an  
abstract  
concept

What  
do  
I  
need  
to  
know

There  
should  
be  
a  
way

There  
is  
a  
lot  
of  
information  
to  
process

Complex  
structure  
is  
clear

What  
do  
I  
need  
to  
know

### Does

What activities have we observed?  
What can we imagine them doing?

### Thinks

What are their wants, needs, hopes,  
and dreams? What other thoughts  
might influence their behavior?

What  
do  
I  
need  
to  
know

What  
do  
I  
need  
to  
know

What  
do  
I  
need  
to  
know

What  
do  
I  
need  
to  
know

What  
do  
I  
need  
to  
know

What  
do  
I  
need  
to  
know

What  
do  
I  
need  
to  
know

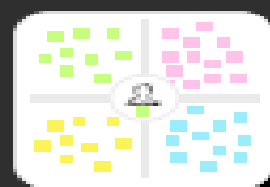
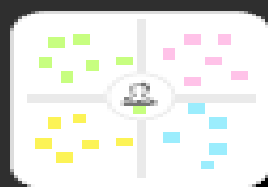
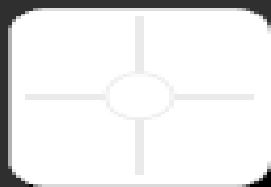
What  
do  
I  
need  
to  
know

What  
do  
I  
need  
to  
know

What  
do  
I  
need  
to  
know

### Feels

What are their fears, frustrations, and  
anxieties? What other feelings might  
influence their behavior?



2

## Brainstorm

Write down any ideas that come to mind that address your problem statement.

🕒 10 minutes

### TIP

You can select a sticky note and hit the pencil (which is visible) icon to start drawing!

#### Person 1

Brainstorm any ideas that address the problem	Brainstorm any ideas that address the problem	Brainstorm any ideas that address the problem

#### Person 2

Brainstorm any ideas that address the problem	Brainstorm any ideas that address the problem	Brainstorm any ideas that address the problem

#### Person 3

Brainstorm any ideas that address the problem	Brainstorm any ideas that address the problem	Brainstorm any ideas that address the problem

#### Person 4

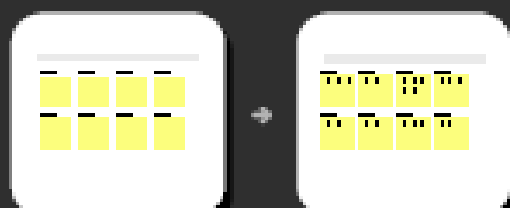
Brainstorm any ideas that address the problem	Brainstorm any ideas that address the problem	Brainstorm any ideas that address the problem

#### Person 5


#### Person 6


#### Person 7


#### Person 8

RESULT:

Smart Internz

Home

Projects

Support

Guided Project

Project Workspace

Chat with Mentor

Project Title : Plugging into the Future: An Exploration of Electricity Consumption Patterns

NM Id : A671A4A9C688326925649C4FC739C92C

Industry Mentor(s) Name : Mentor-Data Analytics

Project Progress

100%

GENERAL INSTRUCTION

SHOW

Demo Link

View Mentor Comments

View Industry Mentor Comments

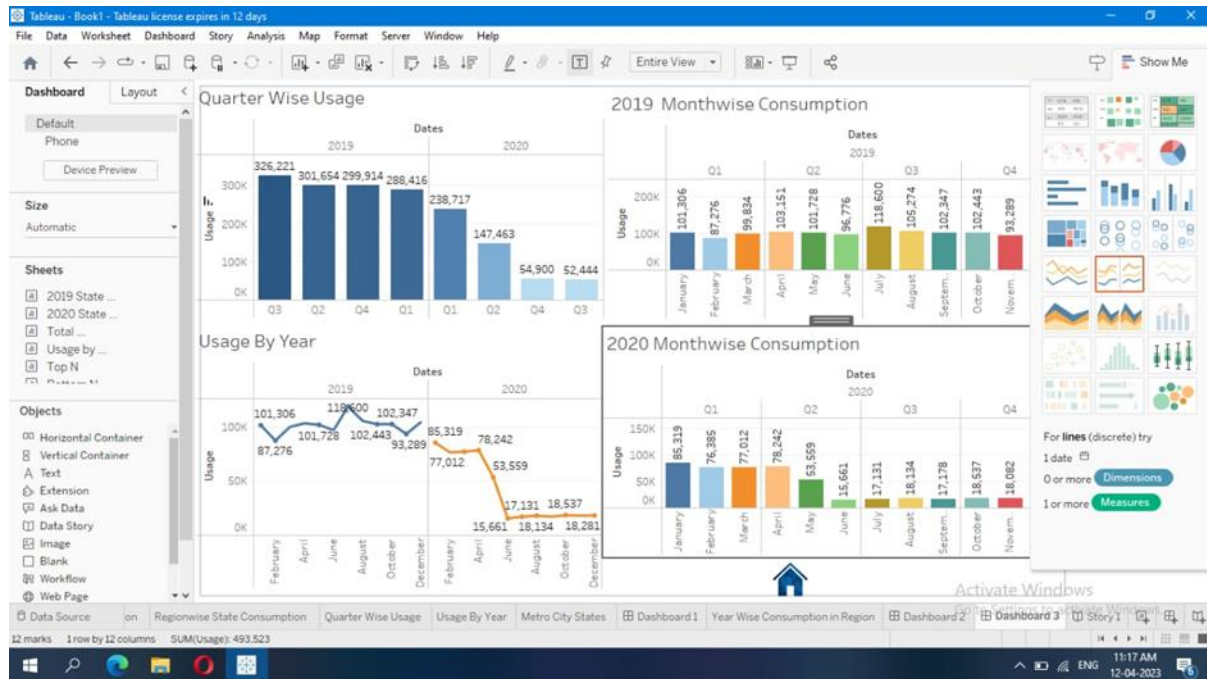
PROJECT DETAILS

TASK & PROGRESS

MENTOR REVIEW

Plugging Into The Future: An Exploration Of Electricity Consumption Patterns

INTERMEDIATE



Through this project we discuss and create some ideas about electricity consumption patterns and solving some problems about electricity and also we can learn much about electricity consumption patterns.

## 4. Advantages and Disadvantages

### 4.1 Advantages

- ✚ It is clean, safe, cheap and convenient source of energy.
- ✚ Lower maintenance cost.
- ✚ It doesn't require as many employees.
- ✚ Reduces greenhouse emissions.
- ✚ Electricity will largely replace petrol and diesel as a fuel for road vehicles.

## 4.2 Disadvantages

- ✦ More expensive than gasoline.
- ✦ More power plants and more pollution.
- ✦ Damming can cause loss of land suitable for agriculture as well as **recreation.**
- ✦ Drought can affect power production.

## 5.Applications

Applications of electricity in daily life such as lighting, heating, cooling and refrigerators and for operating appliances, computers, electronics, machinery and public transportation system.

## 6.Conclusion

Current through a given area of a conductor is the net charge that passes per unit time through the conductor. We need electricity for everything that we do, so we must try to save it as much as possible.

## 7. FUTURE SCOPE

Electricity will replace petrol and diesel as a fuel for road vehicles. It will also replace the natural gas and oil we burn to heat our homes and run our industries.

**“ELECTRICITY IS THE SOUL OF THE UNIVERSE”**

**-John Wesley.**