

IDEATION PHASE


BRAINSTORM & IDEA PRIORITIZATION

DATE	12 September 2022
TEAM ID	PNT2022TMID15599
PROJECT NAME	Predicting the energy output of wind turbine based on weather condition
MAXIMUM MARK	4 Marks

Brainstorm & Idea Prioritization:

Step 1: Team Gathering, Collaboration and Select the Problem Statement

Template



Brainstorm & idea prioritization

Use this template in your own brainstorming sessions so your team can unleash their imagination and start shaping concepts even if you're not sitting in the same room.

- 🕒 10 minutes to prepare
- 🕒 1 hour to collaborate
- 👥 2-8 people recommended

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Before you collaborate

A little bit of preparation goes a long way with this session. Here's what you need to do to get going.

🕒 10 minutes

A

Team gathering

Define who should participate in the session and send an invite. Share relevant information or pre-work ahead.

B

Set the goal

Think about the problem you'll be focusing on solving in the brainstorming session.

C

Learn how to use the facilitation tools

Use the Facilitation Superpowers to run a happy and productive session.

Open article ➔

1


Define your problem statement

What problem are you trying to solve? Frame your problem as a How Might We statement. This will be the focus of your brainstorm.

🕒 5 minutes


PROBLEM


How might we able to use the power generated by Wind Turbines efficiently ?





Key rules of brainstorming


To run an smooth and productive session


 Stay in topic.

 encourage wild ideas.

 Defer judgment.

 Listen to others.

 Go for volume.

 If possible, be visual.

Step 2: Brainstorm, Idea listing and Grouping

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 button to directly edit the idea in a new tag

Navadeeepan

Turning the turbine direction

Analyzing the direction of wind

Increasing the blade surface area

Decreasing the power consumption

Configure the grid based on prediction

Predicting wind direction

Communicating between the turbine and the grid

Build the turbine in a windy region

Dinesh Kumar

Build the Wind Mill taller

Predict depending on the location

Build the turbine with Weather Forecasters

We use the Machine Learning

Gokul

Build the Wind Mill near to big Cities

Construct the Wind Mill in a higher place

Consider the physical parameters

Reduce the blade weight

3

Group ideas

Take turns sharing your ideas while clustering similar or related notes as you go. Once all sticky notes have been grouped, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you can break it up into smaller sub-groups.

20 minutes

Changes in the Hardware of the Wind Mill proves expensive and takes longer for R&D

Configuring the entire grid is challenging as nation wide it has to be implemented

Use past history along with Real time weather condition to predict Power output

Building a taller and bigger Wind Mill will not serve for its increased cost and complexity

Using only Weather Conditions for determining Power output is inaccurate

Continuously update the algorithm with the actual and predicted value

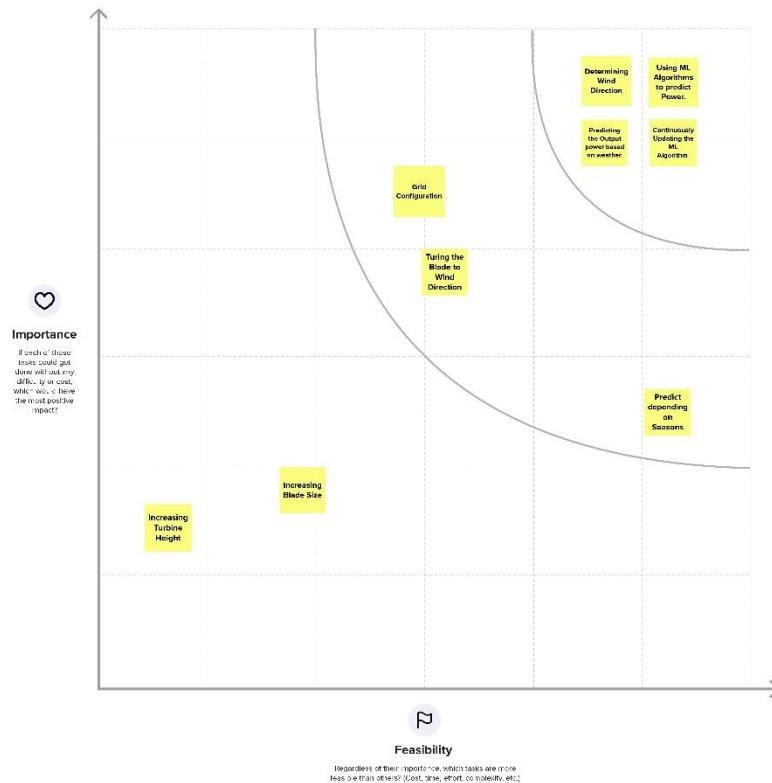
Step 3: Idea Prioritization

4

Prioritize

Your team should all be on the same page about what's important moving forward. Place your ideas on this grid to determine which ideas are important and which are feasible.

20 minutes



→

After you collaborate

You can export the mural as an image or pdf to share with members of your company who might find it helpful.

Quick add-ons

A Share the mural
Share a view link to the mural with stakeholders to keep them in the loop about the outcomes of the session.

B Export the mural
Export a copy of the mural as a PNG or PDF to attach to emails, include in slides, or save in your drive.

Keep moving forward

Strategy blueprint
Define the components of a new idea or strategy.
[Open the template →](#)

Customer experience journey map
Understand customer needs, motivations, and obstacles for an experience.
[Open the template →](#)

Strengths, weaknesses, opportunities & threats
Identify strengths, weaknesses, opportunities, and threats (SWOT) to develop a plan.
[Open the template →](#)

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