Date	19 September 2022
Team ID	PNT2022TMID28577
Project Name	Predicting the energy output of wind turbine based on weather
Maximum Marks	4 Marks

Ideation Phase
Brainstorm & Idea Prioritization Template

Brainstorm & Idea Prioritization Template:

**Brainstorm
& idea prioritization**

**Brainstorming is a group creativity technique
by which efforts are made to fnd a conclusion for a specifc problem by gathering a list of ideas spontaneously
contributed by its members
2-8 people recommended
10 minutes to prepar**

PROBLEM STATEMENT

To produce Acuurate predictions of energy output from based on the wind condition at its surruondings

Brainstorm solo

Have each participant begin in the "solo brainstorm space" by silently brainstorming ideas and placing them into the template. This "silent-storming" avoids group-think and creates an inclusive environment for introverts and extroverts alike. Set a time limit. Encourage people to go for quantity.

🕐 **10 minutes**

SATHISH KUMAR M

Eco friendly	use LSTM for prediction	based on weather conditions
cannot be predicted	individual neutral network	enviroment friendliness
convert mechanical energy	To electrical energy	Renewable energy

SAMUVEL.S

using large blades	reduce consmption	use wind mills
supply energy	← wind turbine curve model	reduces energy imports
use wind pumps	more efficent	life time 20-25 years

RATHIKA .V

monitor condition	control wind turbine	transmission
generator	modelling data	concept of power curve
based on linear curve	regression tree used	inexhaustible

SNEHA.V

map wheather data	increasing role	good to remote area
no pollutant	predict wheather	less power cut
non predictable	world wide increasing role	use mobile app

ARTHI .M

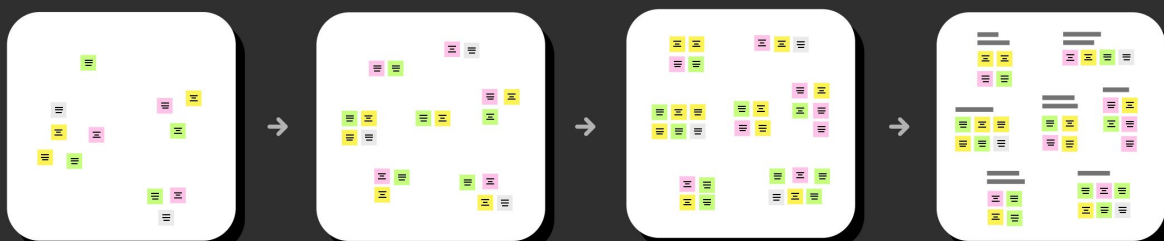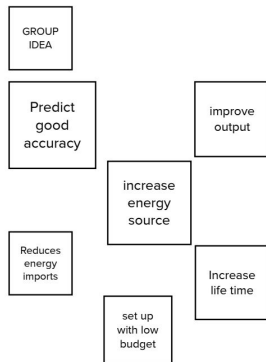|		
based on cubic lava	overcome variable energy production	depend on wind speed
scable	follow certain time	use machine learning
time series pattern	reliable	use turbine

3

Brainstorm as a group

Have everyone move their ideas into the "group sharing space" within the template and have the team silently read through them. As a team, sort and group them by thematic topics or similarities. Discuss and answer any questions that arise. Encourage "Yes, and..." and build on the ideas of other people along the way.

🕐 **15 minutes**

GROUP IDEA

Predict good accuracy

improve output

increase energy source

Reduces energy imports

Increase life time

set up with low budget

4

Decide your focus

Give each person two icons to vote which idea should your team focus on.

🕐 **5 minutes**

IDEA PRIORITIZATION

CREATES WEALTH AND LOCAL EMPLOYMENT

LESS POLLUNT

MAP WEATHER DATA TO ENERGY

ENVIRONMENT FRIENDLINESS

GENERATE MORE POWER