Project Design Phase-I
Problem Solution Fit

Date	01 October 2022
Team ID	PNT2022TMID33022
Project Name	Predicting the energy output of wind turbine based on weather condition
Maximum Marks	2 Marks

Problem Solution fit:

Problem-Solution fit canvas 2.0

Purpose / Vision

1. CUSTOMER SEGMENT(S) — CS

Who is the customer?

The customer here is an "INDUSTRIALIST"

6. Limitation — CC

What constraints prevent your customers from taking action or limit their choices of solutions?

Spending Power, No cash in Pocket, Risk factor to an extent

5. AVAILABLE SOLUTIONS — AS

What pros & cons do these solutions have?

- The sudden weather changes which is directly proportional to the output power can be predicted and updated accordingly
- The experience of someone will only be the pros and cons of what they faced

2. PROBLEMS / PAINS — J&P

Which jobs-to-be-done do you address for your customers?

- Natural Calamities according to Season
- Idle wind pipe often in remote location. Network issues may delay the update in application.
- Damages in Electronic Devices due to power fluctuation, in household.
- Machine Failuers in industrial areas.

9. PROBLEM ROOT/ CAUSE — RC

What is the real reason that this problem exists? What is the back story behind the need to do this job?

- People are having less awareness about demands and troubles can be predicted before even the situation happens.
- People think that managing a business in online form is difficult and the software is too much cost to spent

7. BEHAVIOUR — BE

What does your customer do to address the problem and get the job done?

- Directly Related: Predict the weather and exact location of wind energy outcome by the application
- Indirectly Related: Output Power can be Predicted in order to avoid damages

3. TRIGGERS — TR

What triggers customers to act?

- Reading about innovative idea on better management on the Internet
- Seeing someone getting benefit of protecting their electronic equipments using advanced updates through the application may trigger another person.

4. EMOTIONS: BEFORE / AFTER — EM

How do customers feel when they face a problem or a job and afterwards?

- Worried, Disheartened.
- Satisfaction, hopefull.

10. YOUR SOLUTION — SL

- The statistics of previous years climatic changes can be analysed for the present requirement to make alternative changes.
- This prediction update will receive the user by application before 48 hours in order to be aware of the future damages

8. CHANNELS of BEHAVIOUR — CH

ONLINE

Advertising through social media platforms by influencers to promote it.

OFFLINE

. The person along with his business partners need to promote the product in their social circle by building trust.

Side labels: Define CS, fit into CC · Explore AS, differentiate · Focus on J&P, tap into BE, understand RC · Identify strong TR & EM · Extract online & offline CH of BE