

Project Design Phase-I
Problem Solution Fit

Date	10 October 2022
Team ID	PNT2022TMID26144
Project Name	Predicting the energy output of wind turbine based on Weather condition
Maximum Marks	2 Marks

Problem Solution Fit:

CUSTOMER SEGMENTS(S) Electricity providers, industrialists, the government, and ordinary people	CUSTOMER LIMITATIONS <ul style="list-style-type: none"> Which city energy do they want to predict Internet connection Web browser 	AVAILABLE SOLUTIONS (PROS AND CONS) <ul style="list-style-type: none"> A website is created which shows the accurate prediction of wind energy Pros – reduce overproduction Cons – web application
PROBLEMS/ PAINS (ITS FREQUENCY) <ul style="list-style-type: none"> Prediction of future wind direction and wind speed No proper platform for wind energy prediction 	PROBLEM ROOT/ CAUSE <ul style="list-style-type: none"> Existing solutions do not satisfy the customer's expectation it tends to more customers to invest in windmills. 	BEHAVIOR ITS INTENSITY Need to study more about wind power forecasting.
TRIGGERS TO ACT <ul style="list-style-type: none"> Most energy suppliers are satisfied with renewable energy resource It will reduce the emission of CO₂. Accurate prediction needed 	YOUR SOLUTION A website is developed with a combination of ML algorithms that predicts wind energy using wind speed and wind direction The website has a user-friendly interface which means anyone can able to access the website and make benefit from it.	CHANNELS OF BEHAVIOR (ONLINE) Try to search it on google, YouTube, WhatsApp, and other platforms.
EMOTIONS (BEFORE/ AFTER) Before - Guilty, Frustrated After – Satisfied, Calm, happy		OFFLINE Ask field experts, and energy suppliers and refer to books in the library