Project Design Phase-I
Problem Solution Fit

Date	01 October 2022
Team ID	PNT2022TMID30223
Project Name	Predicting the energy output of wind turbine based on Weather condition
Maximum Marks	

Problem Solution Fit:

CUSTOMER SEGMENTS(S) Electricity providers, industrialists, the government, and ordinary people	**CUSTOMER LIMITATIONS** • Which city energy do they want to predict • Internet connection • Web browser	**AVAILABLE SOLUTIONS** *(PROS AND CONS)* • A website is created which shows the accurate prediction of wind energy • Pros – reduce overproduction • Cons – web application
PROBLEMS/ PAINS *(ITS FREQUENCY)* • Prediction of future wind direction and wind speed • No proper platform for wind energy prediction	**PROBLEM ROOT/ CAUSE** • 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 • Most energy suppliers are satisfied with renewable energy resource • It will reduce the emission of co_2. • 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