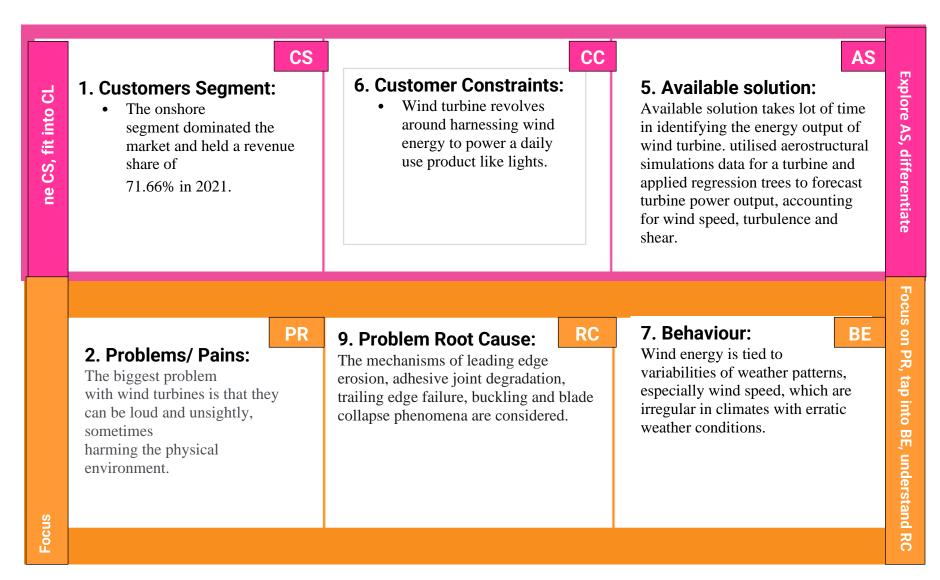
# **Project Design Phase-I - Solution Fit**

Project Title: predicting the energy output of wind turbine based on weather conditions

Team ID: PNT2022TMID15396 DATE: 01 OCTOBER 2022



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## 3. Triggers:

The energy output of a wind farm is highly dependent on the weather conditions present at its site. If the output can be predicted more accurately, energy suppliers can coordinate the collaborative production.

#### 10. Your Solutions:

Our studies are carried out on publicly available weather and energy data for a wind farm. We report on the correlation of the different variables for the energy output.

### 8. Channels of behaviour:

Behaviour include the functions of wind turbine weather it works properly with all the mechanisms included.

#### 4. Emotions:

 Most significant is the hub height wind speed, followed by hub height turbulence intensity and then wind speed shear across the rotor disk.

**EM**