PREDICITING THE ENERGY OUTPUT OF WIND TURBINE BASED ON WEATHER CONDITION

CUSTOMER JOURNEY MAP

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| **JOURNEY STEPS** | **DISCOVERY** | **REGISTRATION** | **ONBOARDING AND FIRST USE** | **SHARING** |
| **ACTION** | They need the information about the amount of energy has been predicted | Choose the plan  Enter the details  Wind speed | Supply of  energy Predict the energy  Environment Less power  friendliness cut | To share their experience  Reliable  To use in mobile app |
| **NEEDS AND PAINS** | Using large blades  Intermittent | More efficient  Scalable  Depends on wind speed | Good to remote area  Non pollutant  It is a threat to wildlife  Unpredictability | Increasing role in world wide  Aren't aesthically pleasing  Reduce consumption |
| **TOUCHPOINT** | Mechanical energy into electrical energy  Reducing carbon footprint | Local employment  Does not emit toxic substance  Does not generate waste | Based on  cubic lava Does not contaminate  Fellow Contribute to  certain time sustainable  development | Create wealth  Reduce energy import  Reduce the use of fossil fuel |
| **CUSTOMER FEELING** | 🤯  Stressed | 🤔  Confused | 😕  Worried | 😟  Troubled |
| **OPPORTUNITIES** | Longer and lighter rotor blades | Optimizing control system | Curved tips blades has maximum wind speed | More reliable gearboxes |
| **PROCESS OWNERSHIP** | Vestas which has total capacity of 9.60 | Siemen Gamesa which has total capacity of 8.79 | Goldwind which has a total capacity of 8.25 | GE which has a total capacity of 7.37 |