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  Environment friendliness | Predict the energy  Less power 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  It is a threat to wildlife | Non pollutant  Unpredictability | Increasing role in world wide  Aren't aesthically pleasing  Reduce consumption |
| **TOUCHPOINT** |  |  | Local employment  Does not emit toxic substance  Does not generate waste | Based on cubic lava  Fellow certain time | Does not contaminate  Contribute to sustainable development |  |
|  | Mechanical energy into electrical |  | Create wealth |
|  | energy |  |  |
|  |  |  | Reduce |
|  |  | Reducing carbon | energy import |
|  |  | footprint | 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 |