Project Design Phase-I Proposed Solution Template

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| Date | 19 September 2022 |
| Team ID | PNT2022TMID45948 |
| Project Name | Predicting The Energy Output Of Wind Turbine Based On Weather Condition |
| Maximum Marks | 2 Marks |

**Proposed Solution Template:**

Project team shall fill the following information in proposed solution template.

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| **S.No.** | **Parameter** | **Description** |
| 1. | Problem Statement (Problem to be  solved) | Our time –tested kombiBox produce gives a higher priority to those forecasts having the lowest prediction error in respective weather situation. |
| 2. | Idea / Solution description | Our aim is to map weather data to energy production |
| 3. | Novelty / Uniqueness | A good overview on the different methods that were recently applied in forecasting of wind power generation can be found in . |
| 4. | Social Impact / Customer Satisfaction | If there's a lot of wind, you get more energy output than if there's less wind, which means you will likely want to do maintenance when the winds are low to minimize downtime. |
| 5. | Business Model (Revenue Model) | Realtime projections for solar power, including behind-the-meter generation  Grid-oriented forecasts |
| 6. | Scalability of the Solution | The model prediction is then showcased on user interface to predict the energy output of wind turbine |