**Table 1: Power Generation Solutions**

|  |  |
| --- | --- |
| **Energy Sources** | Solar |
| Wind |
| Tidal |
| Wave |
| Biomass |
| Landfill Gas |
| Overhead Power |
| Diesel Generator |

**Table X: Energy Storage Technologies**

|  |  |
| --- | --- |
| **Energy Storage Technologies** | Battery Storage |
| Pumped-Storage Hydroelectricity |

**Table X: Other Required Technologies**

|  |  |
| --- | --- |
| **Other Required Technologies** | **Inverter** |
| **Telemetry** |
| **Cooling system** |

**Table X: Software Tools**

|  |  |
| --- | --- |
| **Software Tools** | HOMER |
| RAWLINSONS |
| POWERFACTOR |
| MATHEMATICA/MATLAB |

**Table X: Design Methodology**

|  |  |  |
| --- | --- | --- |
| **Design Methodology** | Base Case: Overhead Power | POWERFACTORY & MATLAB |
| Solar-wind-battery-diesel | HOMER TOOL |
| Solar-battery-diesel | HOMER TOOL |
| Solar-wind-battery | HOMER TOOL |

**Table X: HR allocation of Power Team 12**

|  |  |
| --- | --- |
| **Team Members** | **Regular Work Sessions** |
| Jessica Armstrong | On Tuesday at 2:00-5:00pm |
| Steven Bardzovski |
| Xiaobin Lin |
| Mark Mazzoni | On Friday at 1:00-5:00pm |
| Shaochen Wang |
| Jie Zhang |