**Table: Photovoltaic(PV)**

Table holds the attributes effecting photovoltaic(PV)

|  |  |  |
| --- | --- | --- |
| Column | Data Type | Description |
| Time | Int | Time stamp of the every specific KWp/h coming |
| Date | Int | Date of the overall power recorded |
| Weather | String | How the weather is on that specific date |
| Capacity | Int | Capacity of the energy produced(DC) |
| Power flow | Int | Analyzes the power systems in normal steady-state operation. |
| Speed | Int | Speed of the power production per KWp/h(DC) |

**Table: Generator**

Table holds the attributes effecting the generation of power(AC)

|  |  |  |
| --- | --- | --- |
| Column | Data Type | Description |
| Time | Int | AC power generated that specific time |
| Date | Int | Date of the power generated(AC) |
| Number of panels connected | Int | Number of panels connected to the grid |
| Speed | Int | Speed of the Power converted from DC to AC |
| Weather | String | Weather of that specific day of power generated |

**Table: Battery**

Table holds the attributes effecting the battery connected to the grid

|  |  |  |
| --- | --- | --- |
| Column | Data Type | Description |
| Capacity | Int | Capacity of the battery to store power |
| Speed | Int | Speed of the battery storing power |
| Time | Int | Time stamp of the battery getting charged and empty |
| Energy received | Int | Amount of energy received by the battery |

**Table: Consumption**

Table holds the attributes effecting the power consumption

|  |  |  |
| --- | --- | --- |
| Column | Data Type | Description |
| Time | Int | Time stamp when the specific amount of energy required by the consumer |
| Date | Int | Date of the amount of energy consumed by the consumer |
| Number of consumers | Int | Number of consumers(people) present in a building |
| Type of consumers | Int | Type of consumer whether the consumer is a smart building, smart city, smart vehicle, smart home etc. |
| Weather | String | Weather effecting the power consumption for e.g. the power consumption might be more if the weather if hot and is less if the weather is cold etc. |