```
v[ 3 Items
0: "The Task"
1: "RawData"
2: "Contractual Power Curve"
]
```

```
Windspeed [m/s]
                      Power
              1.0 0.000000
              1.1 0.000098
              1.2 0.000197
              1.3 0.000295
              1.4 0.000393
    Windspeed [m/s] Power
236
               24.6
                     1.0
237
               24.7
                      1.0
238
               24.8
                      1.0
239
               24.9
                      1.0
               25.0
240
                      1.0
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 4466 entries, 0 to 4465
Data columns (total 44 columns):
    Column
                                                Non-Null Count Dtype
                                                4466 non-null
                                                                datetime64[ns]
     Date
                                                                float64
     Wind speed
                                                4466 non-null
     Wind max. [m/s]
                                                4466 non-null
                                                                float64
     Wind min. [m/s]
                                                4466 non-null
                                                                float64
```

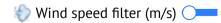
```
Rotation speed avg [rpm]
                                                  4466 non-null
                                                                   float64
     Rotation speed max. [rpm]
                                                  4466 non-null
                                                                   float64
     Rotation speed min. [rpm]
                                                  4466 non-null
                                                                   float64
     Power avg [kW]
                                                  4466 non-null
                                                                  float64
     Power max. [kW]
                                                  4466 non-null
                                                                  float64
9
     Power min. [kW]
                                                  4466 non-null
                                                                   float64
     Power Avail. wind. avg [kW]
                                                  4466 non-null
                                                                  float64
     Power Avail. techn. avg [kW]
                                                  4466 non-null
                                                                   float64
     Power Avail. force maj. avg [kW]
12
                                                  4466 non-null
                                                                  float64
     Power Avail. ext. avg [ [kW]
                                                  4466 non-null
                                                                   float64
     Reactive power avg [kvar]
                                                  4466 non-null
                                                                   float64
     Reactive power max. [kvar]
15
                                                  4466 non-null
                                                                   float64
16
     Reactive power min. [kvar]
                                                  4466 non-null
                                                                  float64
     Blade angle avg [°]
                                                  4466 non-null
                                                                   float64
    Nacelle position [°]
18
                                                  4466 non-null
                                                                   int64
      Temp. Spinner [°C]
                                                  4466 non-null
19
                                                                   float64
20
      Temp. Front bearing [°C]
                                                  4466 non-null
                                                                  float64
21
      Temp. Rear bearing [°C]
                                                  4466 non-null
                                                                   float64
22
      Temp. Pitch control cabinet A [°C]
                                                  4466 non-null
                                                                   float64
23
      Temp. Pitch control cabinet B [°C]
                                                  4466 non-null
                                                                  float64
      Temp. Pitch control cabinet C [°C]
                                                  4466 non-null
24
                                                                   float64
25
      Temp. Blade A [°C]
                                                  4466 non-null
                                                                   float64
26
      Temp. Blade B [°C]
                                                  4466 non-null
                                                                  float64
27
      Temp. Blade C [°C]
                                                  4466 non-null
                                                                   float64
      Temp. Rotor 1 [°C]
28
                                                  4466 non-null
                                                                  float64
29
      Temp. Rotor 2 [°C]
                                                  4466 non-null
                                                                   float64
      Temp. Stator slot 1 [°C]
                                                  4466 non-null
                                                                   float64
 30
      Temp. Stator slot 2 [°C]
31
                                                  4466 non-null
                                                                   float64
32
      Temp. Nacelle outside 1 [°C]
                                                  4466 non-null
                                                                  float64
      Temp. Nacelle outside 2 [°C]
33
                                                  4466 non-null
                                                                   float64
      Temp. Nacelle inside [°C]
34
                                                  4466 non-null
                                                                   float64
      Temp. Control cabinet nacelle [°C]
35
                                                  4466 non-null
                                                                  float64
      Temp. Main carrier [°C]
                                                  4466 non-null
                                                                   float64
36
37
      Temp. Rectifier control cabinet 1 [°C]
                                                  4466 non-null
                                                                  float64
38
      Temp. Yaw converter control cabinet [°C]
                                                  4466 non-null
                                                                   float64
39
      Temp. Fan inverter control cabinet [°C]
                                                  4466 non-null
                                                                  float64
      Temp. Outside [°C]
 40
                                                  4466 non-null
                                                                   float64
      Temp. Tower [°C]
41
                                                  4466 non-null
                                                                   float64
42
      Temp. Control cabinet [°C]
                                                  4466 non-null
                                                                   float64
      Temp. Trafo [°C]
                                                  4466 non-null
                                                                   float64
dtypes: datetime64[ns](1), float64(42), int64(1)
```

alitari.	count	mean	min	25%	50%	75%	n
object	object	object	object	object	object	object	ol
Date	4466	1900-01-16T12:03:04.755	1900-01-01T00:00:00.000	1900-01-08T18:02:30.000	1900-01-16T12:05:00.000	1900-01-24T06:07:30.000	19
Wind speed	4466	7.783721451	0	5.6	7.4	9.7	18
Wind max. [m/s]	4466	10.4749664129	0	7.3	9.8	13.7	26
Wind min. [m/s]	4466	5.1339677564	0	3.6	4.9	6.5	12
Rotation speed avg [rpm]	4466	9.9248275862	0	7.63	10.515	13.56	14
Rotation speed max. [rpm]	4466	10.8829646216	0	8.3	11.89	14.8475	16
Rotation speed min. [rpm]	4466	8.8351298701	0	6.7925	8.97	12	14
Power avg [kW]	4466	0.4087936541	0	0.0869672131	0.3085245902	0.7271311475	1.0
Power max. [kW]	4466	0.5048260445	0	0.1262295082	0.4440983607	1.0078688525	1.0
Power min. [kW]	4466	0.2891148422	0	0.0394262295	0.1867213115	0.4619672131	1.0

Data loaded: 4466 records from 1900-01-01 to 1900-01-31

Helper functions defined



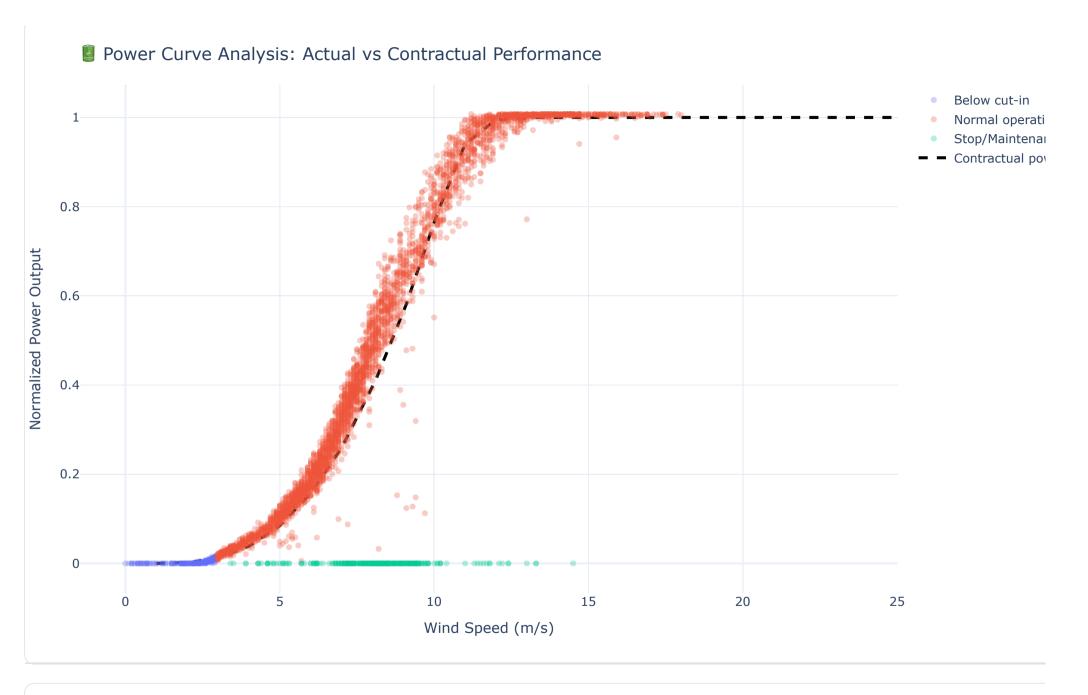


🎨 Color by 🛮 status 💠









Records shown: 4,323

Date range: 1900-01-01 to 1900-01-31

Wind range: 0.0 - 18.0 m/s

Status distribution:

Normal operation: 3736 (86.4%)

Stop/Maintenance: 348 (8.0%)

Below cut-in: 239 (5.5%)

made with marimo (m)

