**PV and meteorology data set**

Data range: 1.1.2016 – 31.12.2018

Time step: 1-minute

Number of data points (time steps): 1’575’774

1. **Photovoltaic installation**

Data file: “PV\_Micro\_16\_17\_18.csv”

Parameters (columns)

Date and time:

Voltage DC [V] – : Instantaneous measurement of voltage at time

Current DC [A] – : Instantaneous measurement of current at time

Power DC [W] – : Instantaneous DC power at time

Power DC Mean [W] –: Average DC power during 1-minute period

1. **Meteorological data**

Data file: “Météo\_16\_17\_18.csv”

Parameters (columns)

Date and time:

Wind speed [m/s] – : Instantaneous measurement at time

Max wind speed [m/s] – : Maximum wind speed during 1-minute period

Min wind speed [m/s] – : Minimum wind speed during 1-minute period

Min wind speed [m/s] – : Minimum wind speed during 1-minute period

Mean wind speed [m/s] –: Average wind speed during 1-minute period

Mean power three of wind speed [m3/s3] –: Average of during 1-minute period

Wind direction [Degree] : Instantaneous measurement at time

Mean wind direction [Degree] : Average wind direction during 1-minute period

Global irradiation [W/m2]: Instantaneous measurement at time

Direct irradiation [W/m2]: Instantaneous measurement at time

Diffuse irradiation [W/m2]: Instantaneous measurement at time

Maximum global irradiation [W/m2]: Maximum global irradiation during 1-minute period

Minimum global irradiation [W/m2]: Minimum global irradiation during 1-minute period

Maximum direct irradiation [W/m2]: Maximum direct irradiation during 1-minute period

Minimum direct irradiation [W/m2]: Minimum direct irradiation during 1-minute period

Maximum diffuse irradiation [W/m2]: Maximum diffuse irradiation during 1-minute period

Minimum diffuse irradiation [W/m2]: Minimum diffuse irradiation during 1-minute period

Mean global irradiation [W/m2]: Average global irradiation during 1-minute period

Mean direct irradiation [W/m2]: Average direct irradiation during 1-minute period

Mean diffuse irradiation [W/m2]: Average diffuse irradiation during 1-minute period

External temperature [Degree C]: Instantaneous measurement at time

Humidity [%]: Instantaneous measurement at time

Dew point [Degree C]: Instantaneous measurement at time

Pressure at sea level [hPa]: Instantaneous measurement at time

Pressure [hPa]: Instantaneous measurement at time

Precipitation [mm/h]: