

# *Operational research for urban solar development*

*“PV failure detection based on operational time series”*

19/12/2024

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# Agenda



## Project info

## Project information

- Estimate PR/EPI: on the whole period
- No « period » limitation on the usage of input\_data (GHI, temp etc...)
- If you perform a residual analysis or ML regression (Gpoa, Tmod, Pdc, Pac etc...)
  - Use only 2020 to perform the analysis / train the model
- If you want to use commands like « .loc[« 20200301 »], make sure the dataframe index is converted to « DateTimeIndex » with the argument « utc=True » as in the example below.

```
input_data.index = pd.to_datetime(input_data.index, utc=True)
```

```
input_data.loc["20210101"]
```

*That's it*



## Curriculum Plan

Day	Time	Duration	Content
<b>Wednesday</b> <b>13/11/2024</b>	11h15-12h45 14h15-15h45	1h30 + 1h30	50% Lecture / 50 % Hands-on
<b>Tuesday</b> <b>26/11/2024</b>	9h45-13h00	1h30 + 1h30	25% Lecture / 75 % Hands-on
<b>Monday</b> <b>02/12/2024</b>	13h15-16h15	3h	15% Lecture / 85 % Hands-on
<b>Monday</b> <b>09/12/2024</b>	8h-11h 13h15-16h15	6h	10% Lecture / 90 % Hands-on/Project
<b>Tuesday</b> <b>10/12/2024</b>	8h-11h	3h	10% Lecture / 90 % Project
<b>Monday</b> <b>16/12/2024</b>	8-11h	3h	10% Lecture / 90 % Project
<b>Thursday</b> <b>19/12/2024</b>	9h45-12h45	3h	10% Lecture / 90 % Project
<b>Monday</b> <b>06/01/2025</b>	13h15-14h45	1h30	100% Project
<b>Monday</b> <b>13/01/2025</b>	9h45-11h45	1h30	100% Project
<b>Total</b>		<b>27h</b>	