

# How Does the Web Application Work?

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## PV technology

Select a technology

Silicium cristallin



Surface (m<sup>2</sup>)

16

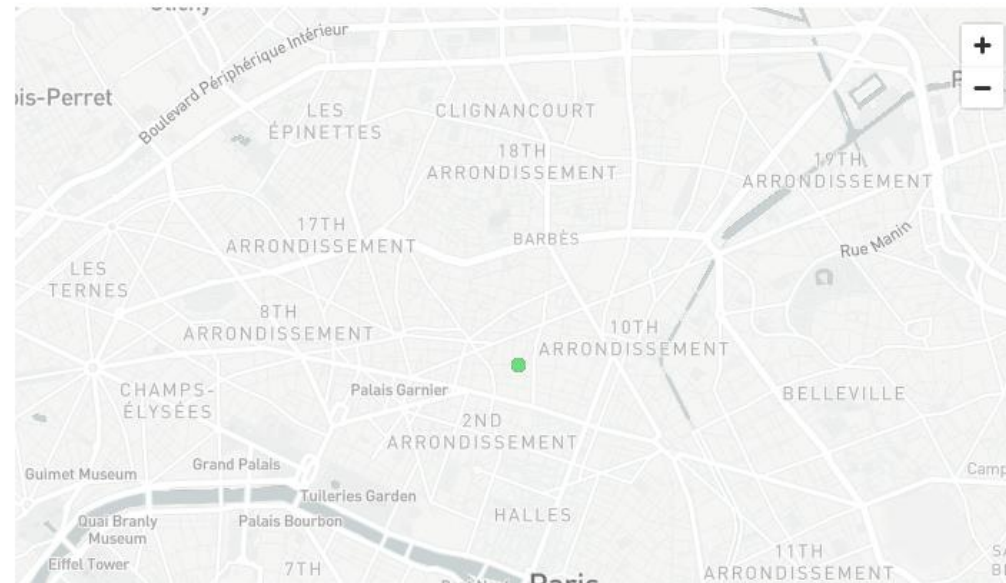
## Short-term prediction photovoltaic energy

This interface makes it possible to predict the performance of a photovoltaic system for the next 7 days based on upcoming weather conditions, taking into account the geographic location of the installation.

Location

19 Rue Richer, 75009 Paris

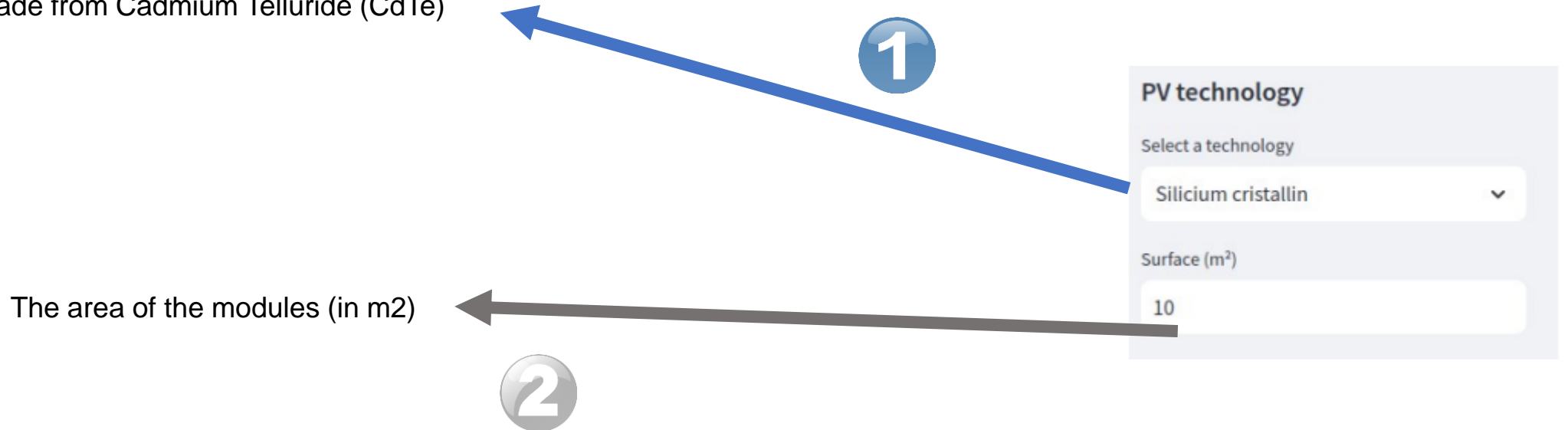
[Start energy prediction](#)



# Step 1: Select PV technology the area of the modules

The performance of PV modules depends on the temperature and on the solar irradiance. At the moment we can estimate the power delivered by the following types of modules:

- crystalline silicon cells
- thin film modules made from CIS or CIGS
- thin film modules made from Cadmium Telluride (CdTe)



## Step 2: Enter the address of your PV installation and start energy prediction

Enter the address of your PV installation

1

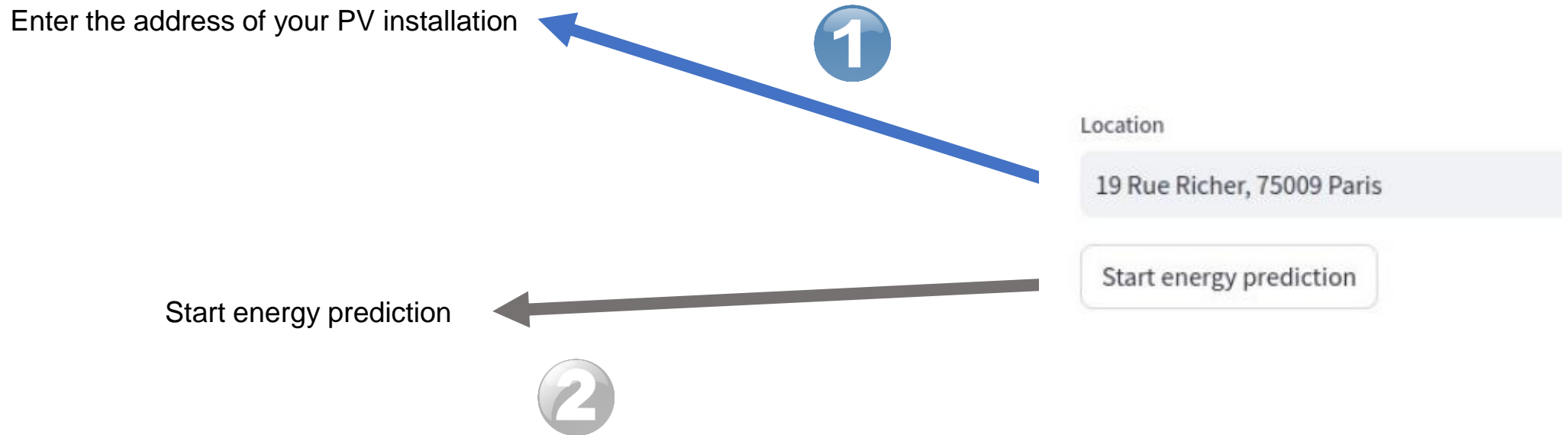
Location

19 Rue Richer, 75009 Paris

Start energy prediction

Start energy prediction

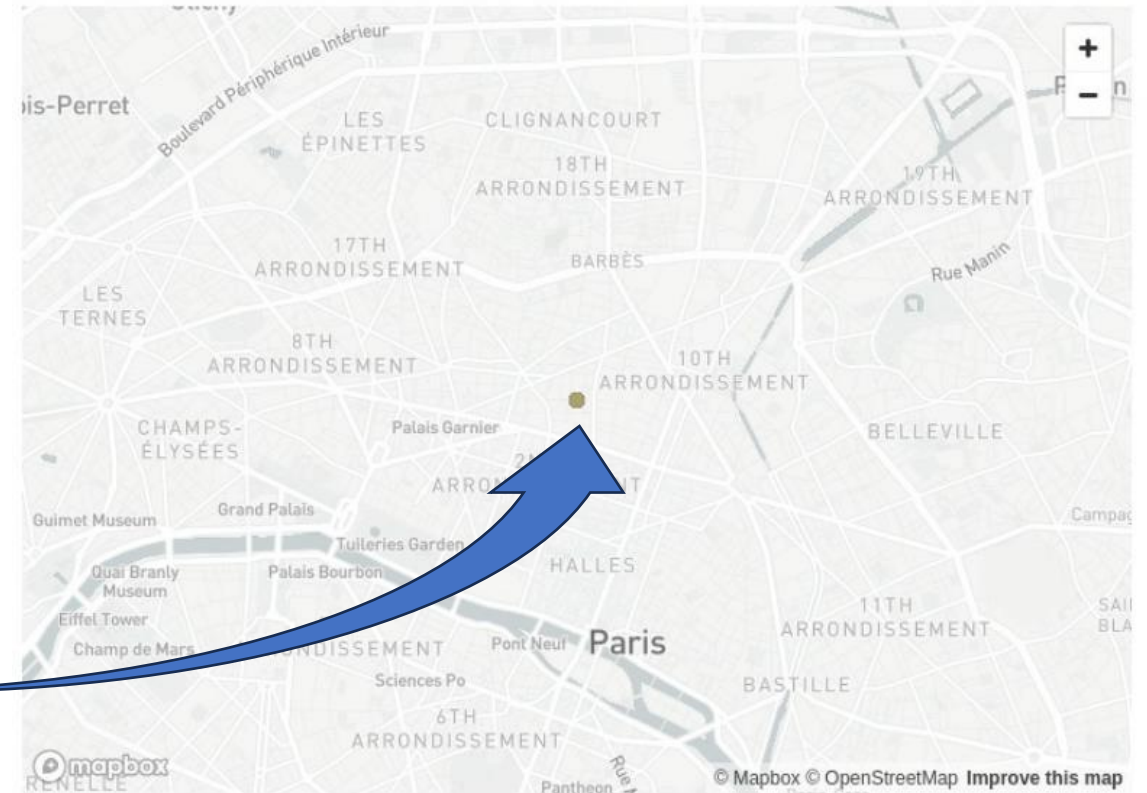
2



**Result 1:** display the location in a map and the associated geographical point

### Geographical point & Surface

	Latitude	Longitude	Surface
0	48.874	2.3461	10



## Result 2: display the weather forecast for next days of the selected location

**Weather Forecast**

1 Date : YYYY-MM-DD HH:MM:SS

2 Temperature : C°

3 Irradiance : W/m<sup>2</sup>

	date	temperature_2m	direct_normal_irradiance
0	2023-11-15 23:00:00	8.0105	0
1	2023-11-16 00:00:00	8.3105	0
2	2023-11-16 01:00:00	8.4105	0
3	2023-11-16 02:00:00	8.6105	0
4	2023-11-16 03:00:00	8.4105	0
5	2023-11-16 04:00:00	8.3605	0
6	2023-11-16 05:00:00	8.4105	0
7	2023-11-16 06:00:00	8.6605	0
8	2023-11-16 07:00:00	8.9105	0
9	2023-11-16 08:00:00	9.1105	0

## Result 3: display the power forecast for next days of the PV installation

### Energy prediction

	date	temperature_2m	direct_normal_irradiance	Predicted_Energy
0	2023-11-16 23:00:00	7.9605	0	1.1158
1	2023-11-17 00:00:00	7.9605	0	1.1158
2	2023-11-17 01:00:00	7.8105	0	1.0932
3	2023-11-17 02:00:00	7.7105	0	1.0775
4	2023-11-17 03:00:00	7.5605	0	1.0569
5	2023-11-17 04:00:00	7.6605	0	1.07
6	2023-11-17 05:00:00	7.3605	0	1.0293
7	2023-11-17 06:00:00	7.4105	0	1.0362
8	2023-11-17 07:00:00	7.3605	0	1.0293
9	2023-11-17 08:00:00	7.6105	61.3694	629.9666

1

Date : YYYY-MM-DD HH:MM:SS

2

Temperature : C°

4

Power : Watt

3

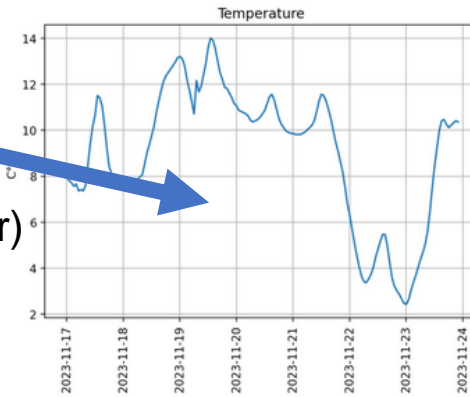
Irradiance : W/m<sup>2</sup>

# Result 3: display the power forecast for next days of the PV installation

## Visualization

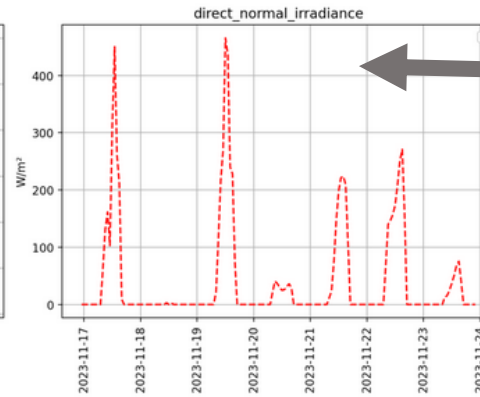
1

Temperature (C°) vs Time (Hour)



2

Irradiance (W/m2) vs Time (Hour)



P(W) vs Time(Hour)



3

Power (Watt) vs Time (Hour)