❖ Guidelines of Assignment 7

In this assignment, you will proceed with the procedure that we worked on during our last lesson. You should find the beam irradiation, the diffuse irradiation, and the PXI for the city of Piacenza.

Accordingly, you should first define latitude_location=45 and then use pandas read_csv to read the beamIrradiance.csv and diffuseIrradiance.csv as DataFrames. And then extract the corresponding values for the "east" direction at the latitude of “latitude_location”. Next you should sum them up (for this assignment we neglect the external shading) and calculate the PXI of the eastern window.

You should then use “read_csv” to read the windows.csv in which you have a column called PXI, you should update that column in a way that the first row (for “east” window) would be the value that you have obtained and the other values would be zero.

Finally, you should use “to_csv” to write the modified windows DataFrame to a file called “windows_completed_withPXI”

You can find a python script in this folder, which shows a similar procedure for IAC_cl, you can use it as a guideline to implement the procedure of assignment 7.

- Submission procedure: Submission procedure is the same as the previous assignments just remember to put you assignment file (assignment7_yourSurname.py) in a folder which is called "Assignment7_yourSurname" before adding it to the" Assignment 7 Pandas B - Deadline Nov 8th 2017"