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Task 1: What is Solar Radiation?

Is electromagnetic energy emitted by the sun. Solar radiation goes through the atmosphere to reach the surface and is modified.

Solar radiation absorption is due to atmospheric components as ozone, water and carbon dioxide, which absorb the incident radiation in specific wavelengths bands (also absorption bands) consequently modifying its energetic spectrum.

Stratospheric ozone absorbs almost all the ultraviolet component of the solar radiation for wavelength less than 0.29 μm

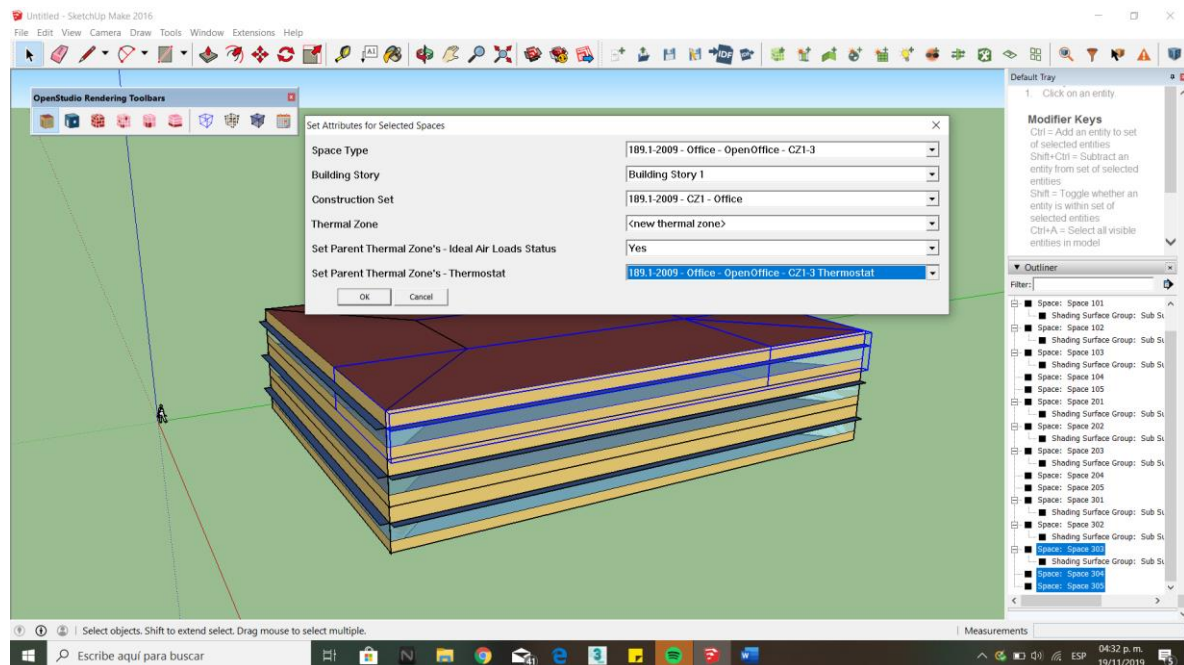
The availability of solar radiation which we can find on the Earth's surface for conversion in other energy forms, depends on:

- The sun position in the sky and this changes every day and every season
- The weather conditions
- The site altitude over the sea level
- And sunshine hours

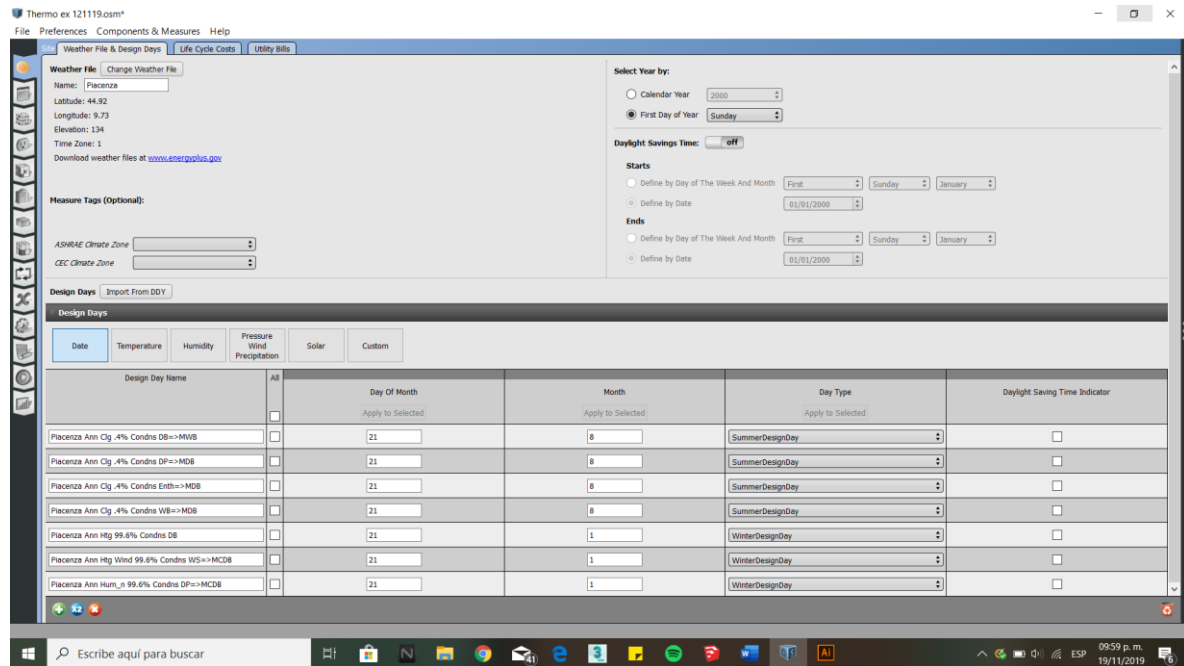
Task 2: Steps of Open Studio Sessions

AFTER step 5

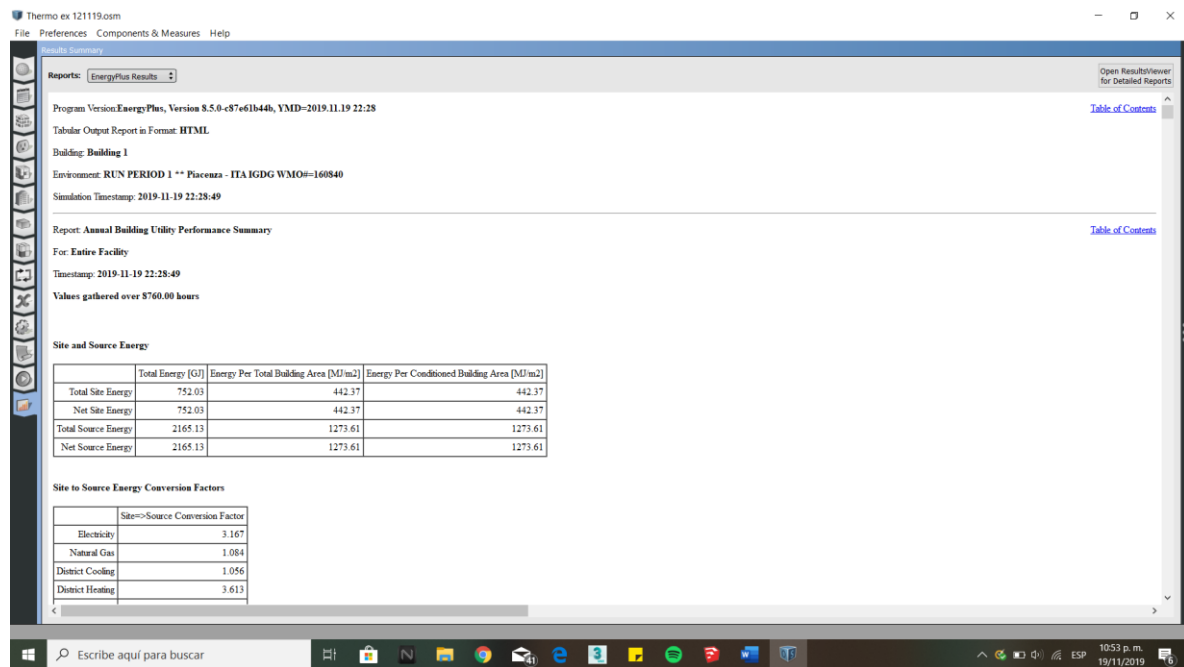
6. I used the tool set attributes for selected spaces to set up the thermal characteristics of some spaces.

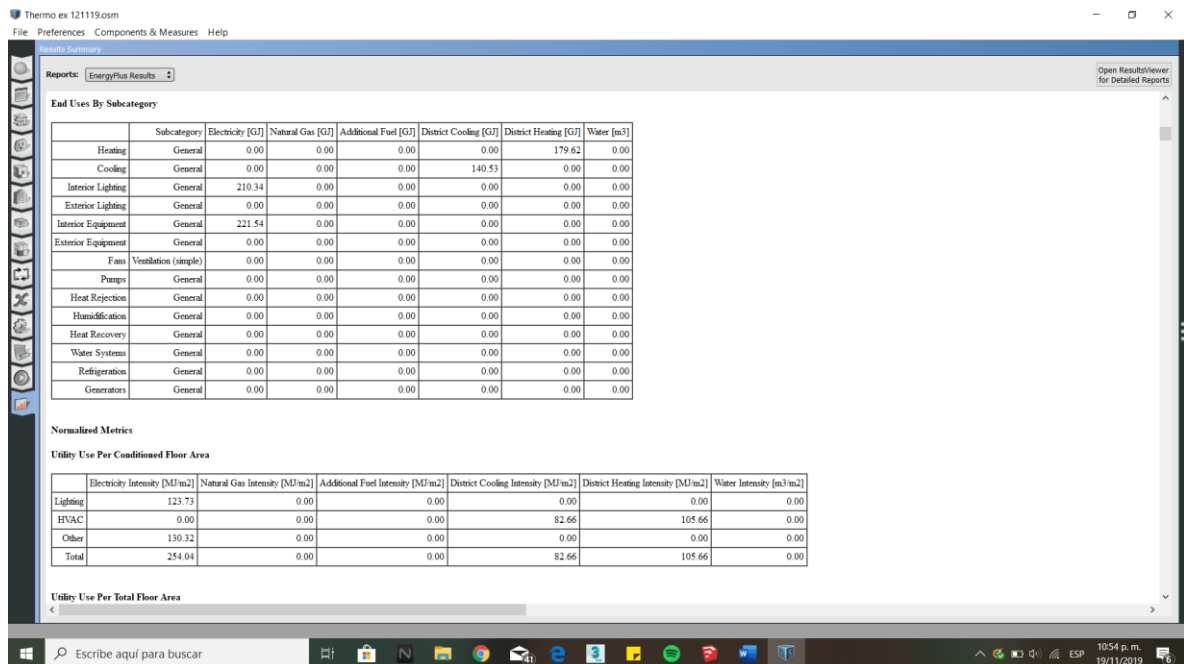
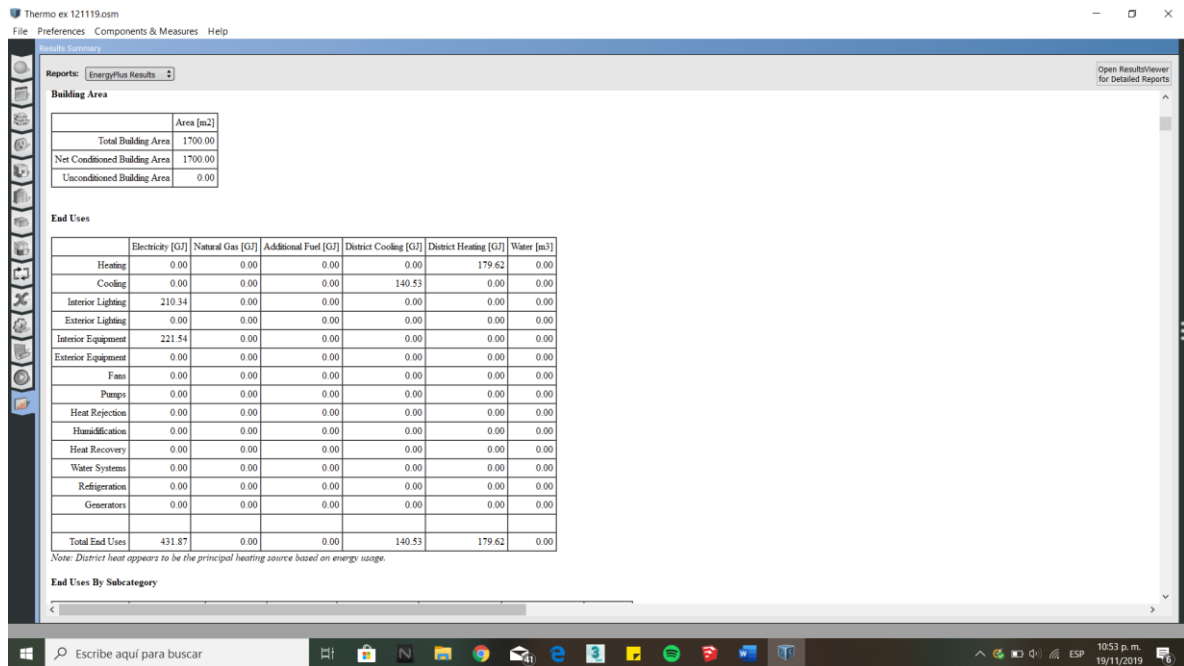


7. I opened Open studio to add the weather data of Piacenza and do the simulation

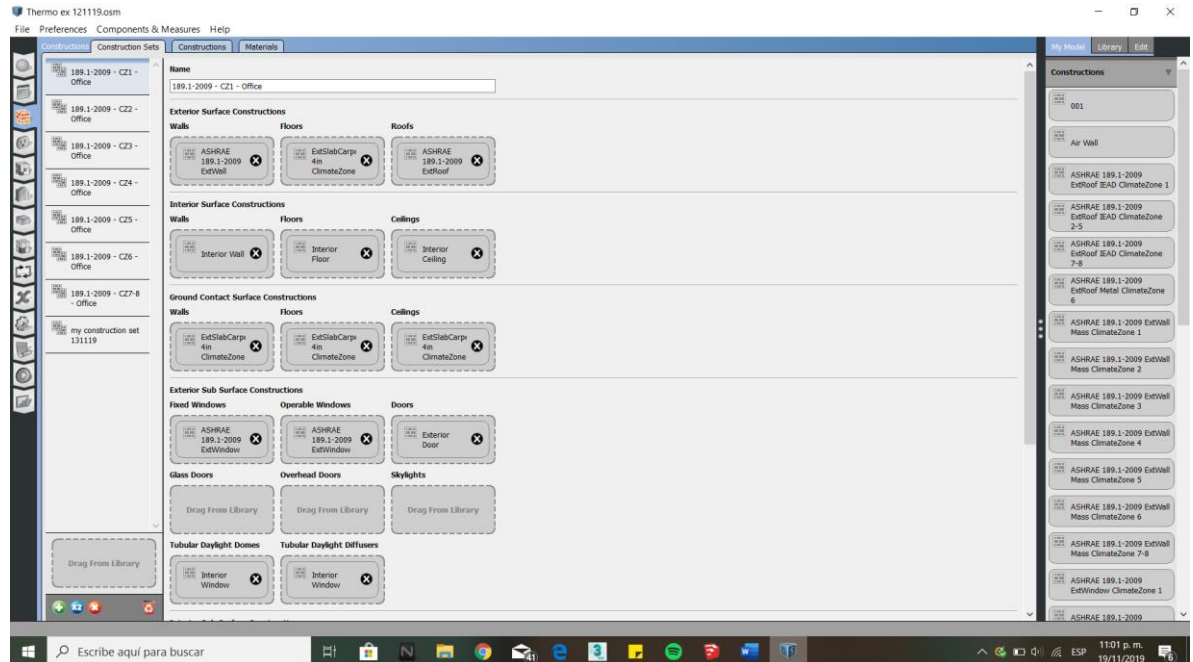


8. I ran the simulation and these were the energy results

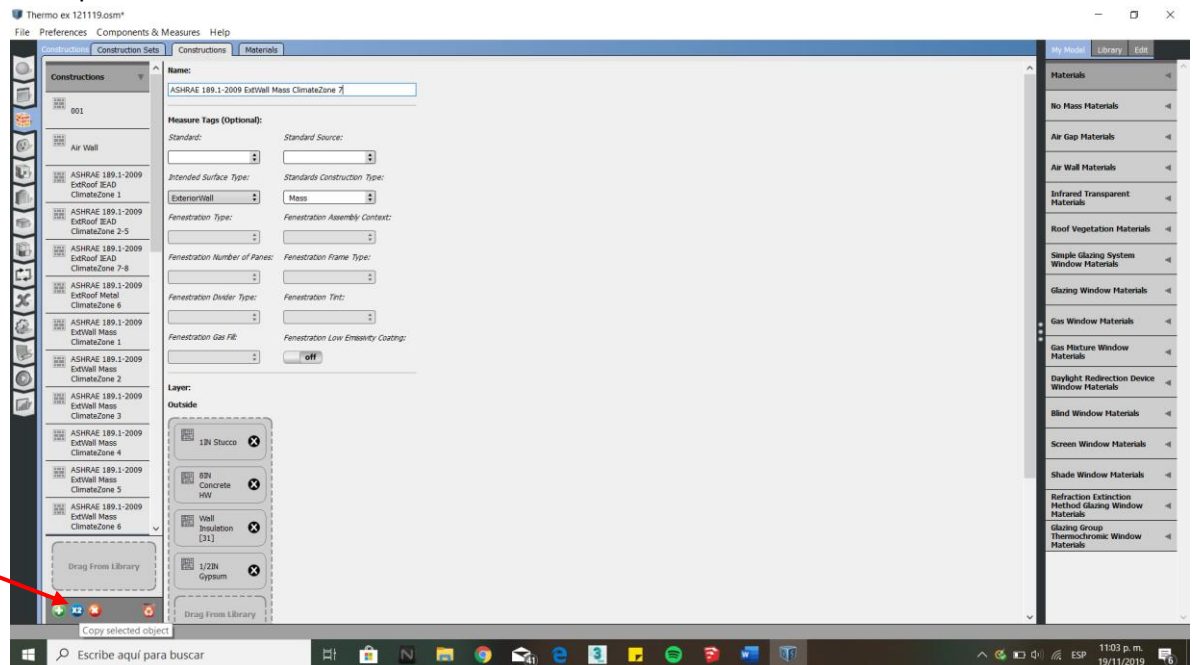




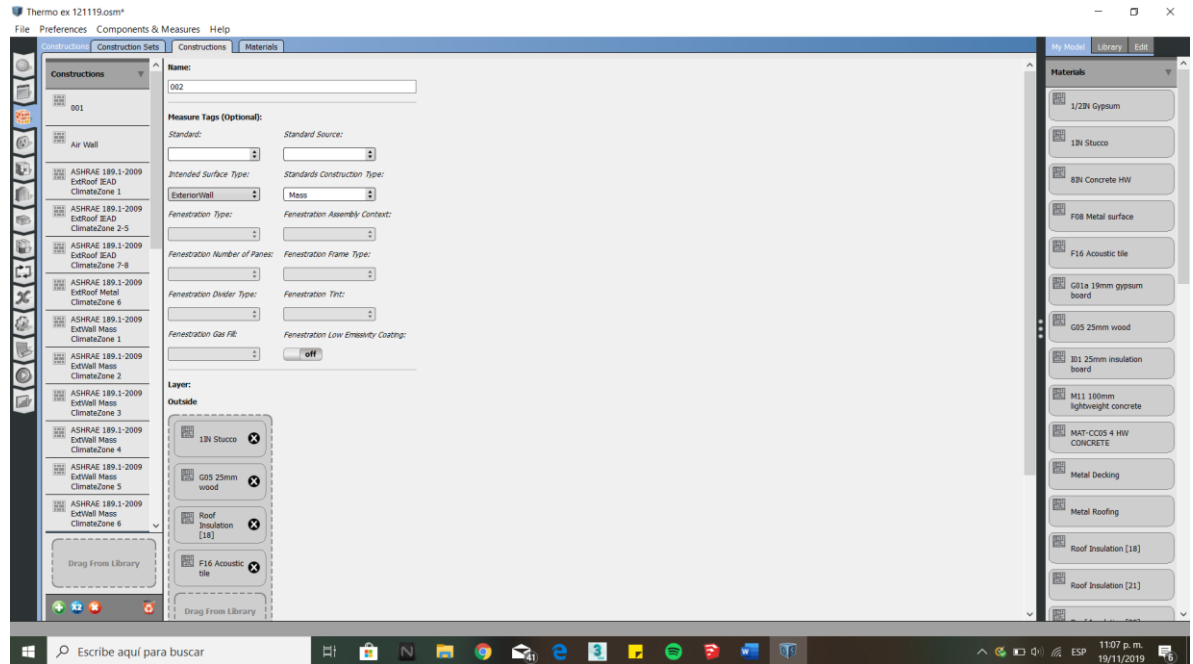
9. In construction set, we can modify the materials and add new ones with specific characteristics



10. To duplicate a material.



11. Here I already created a new material with certain characteristics.



12. And in construction set we can find the material I created and add it to the wall set up.

