#Week 7

** Task 1** Provide a summary of the main concepts that went through about solar radiation (formulas are not needed)

** Task 2** Y create a pdf file with screenshots of all of the steps we went through in the second lesson on openStudio and explain briefly the reason behind the use of each step (in your own words!)

Answers:

Task 1

Summary about solar radiation：

Solar radiation refers to the outward transmission of energy by the sun in the form of electromagnetic waves. It refers to the electromagnetic waves and particle flow emitted by the sun into space. The energy transmitted by solar radiation is called solar radiant energy. Although the solar radiant energy received by the earth is only a part of the total radiant energy that the sun radiates into space, it is the main source of energy for the movement of the earth's atmosphere, as well as the main source of light and heat energy for the earth.

Solar radiation absorption is caused by the fact that some atmospheric components absorb incident radiation at a specific wavelength, thus changing its energy spectrum.

When the sun is perpendicular to the horizon, it passes through the smallest thickness of the atmosphere.
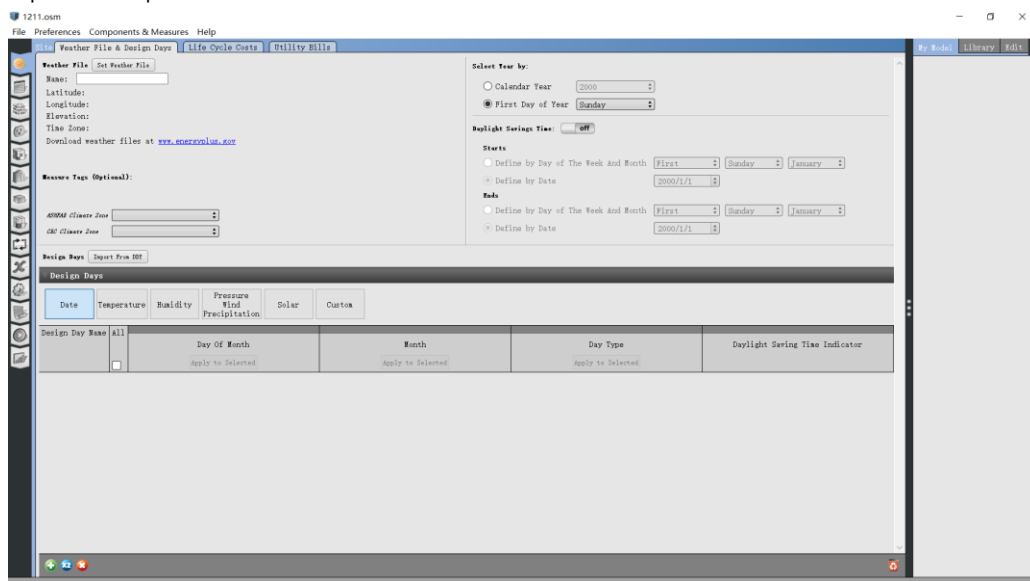
When the sun is at an Angle, it passes through a large part of the atmosphere.

Solar radiation from the earth's surface can be converted into other forms of energy (such as solar energy), depending on the sun's location, weather conditions, the site's sea level and duration of sunlight.
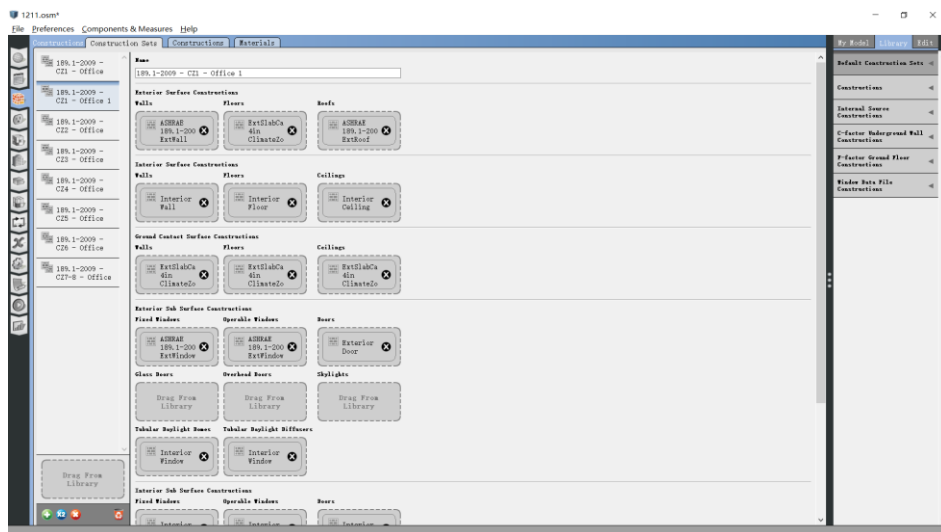
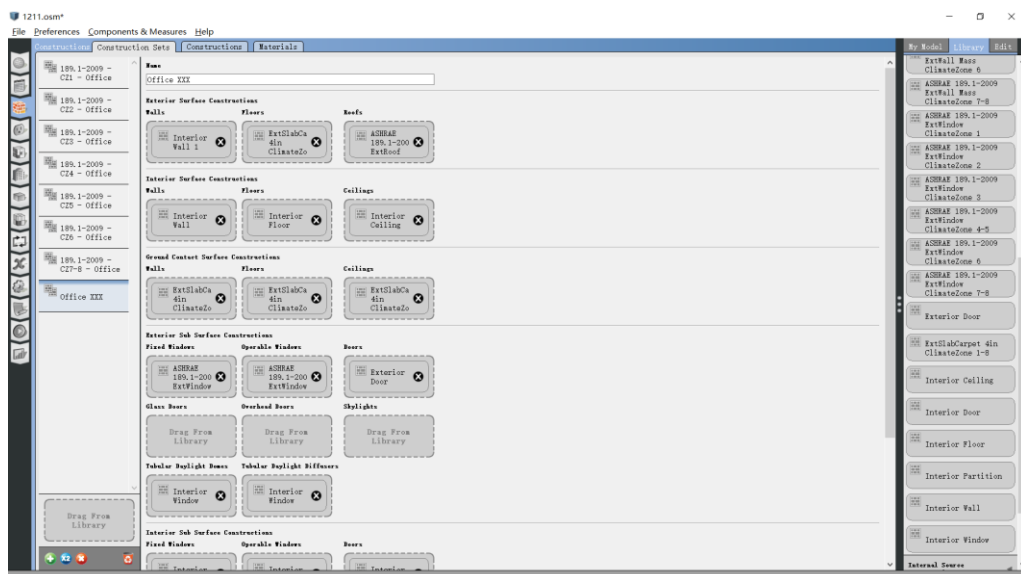If we want to measure the total energy of the sun, we can use a calorimeter.
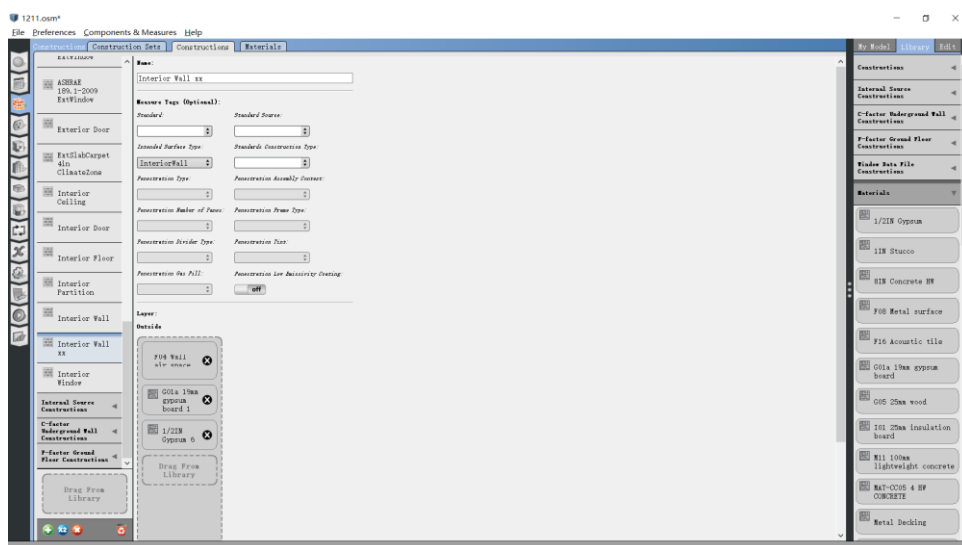
Task 2

1. Open the open studio

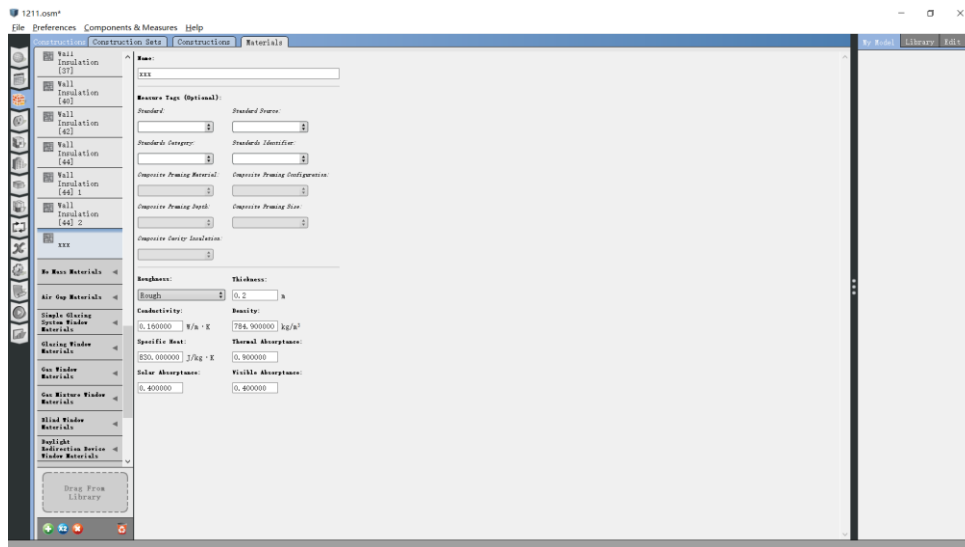2. Copy and modifying constrction
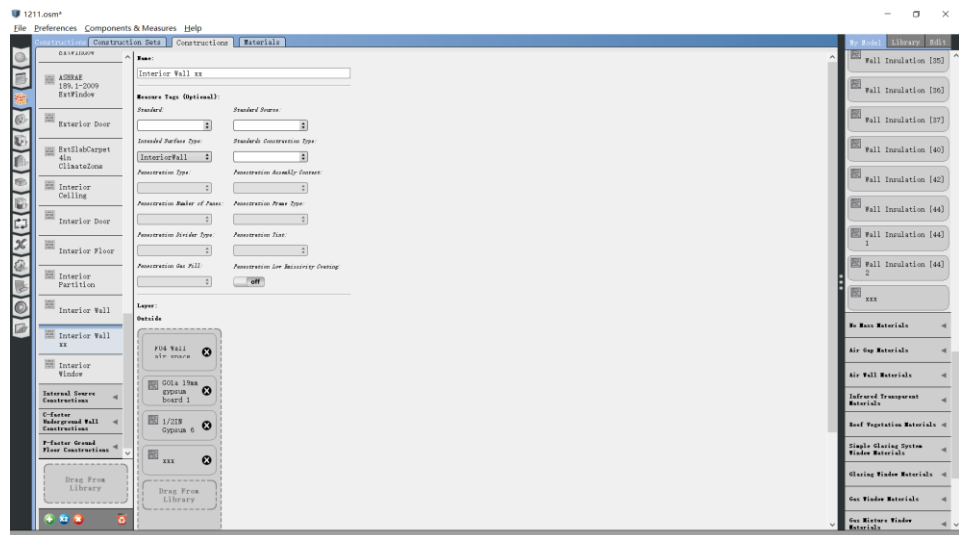

3. We can change and edit the material here.

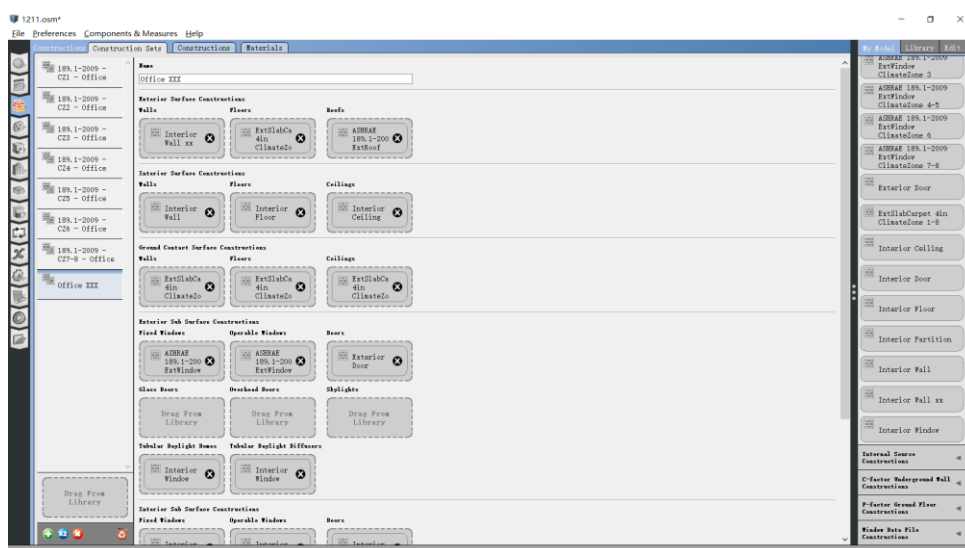4. Edit the materials of the construction

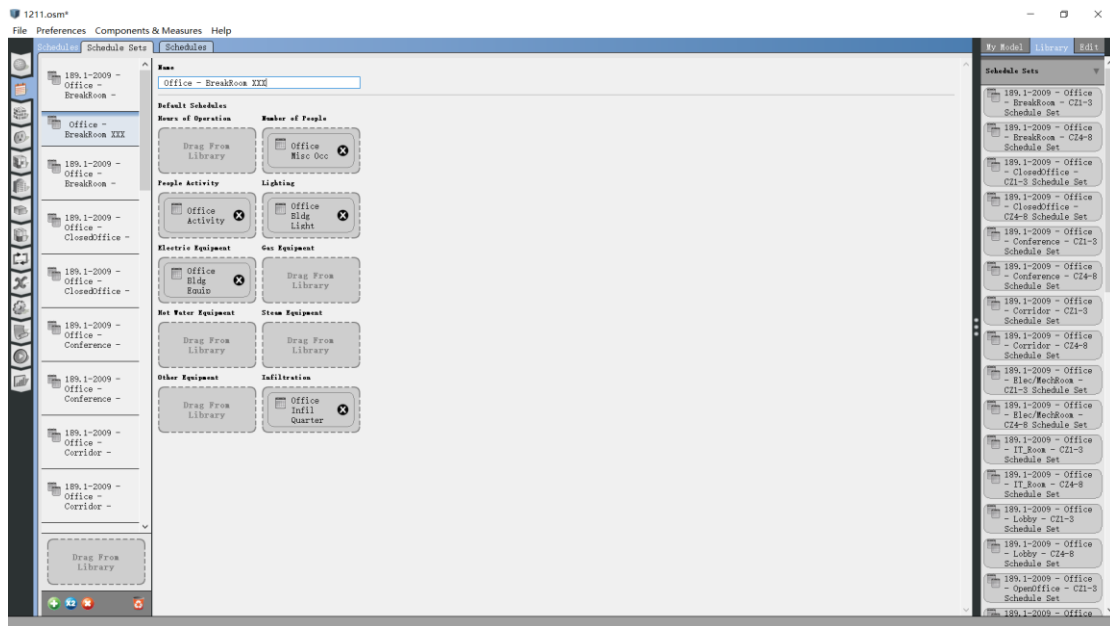5. Add and edit the new material at here.

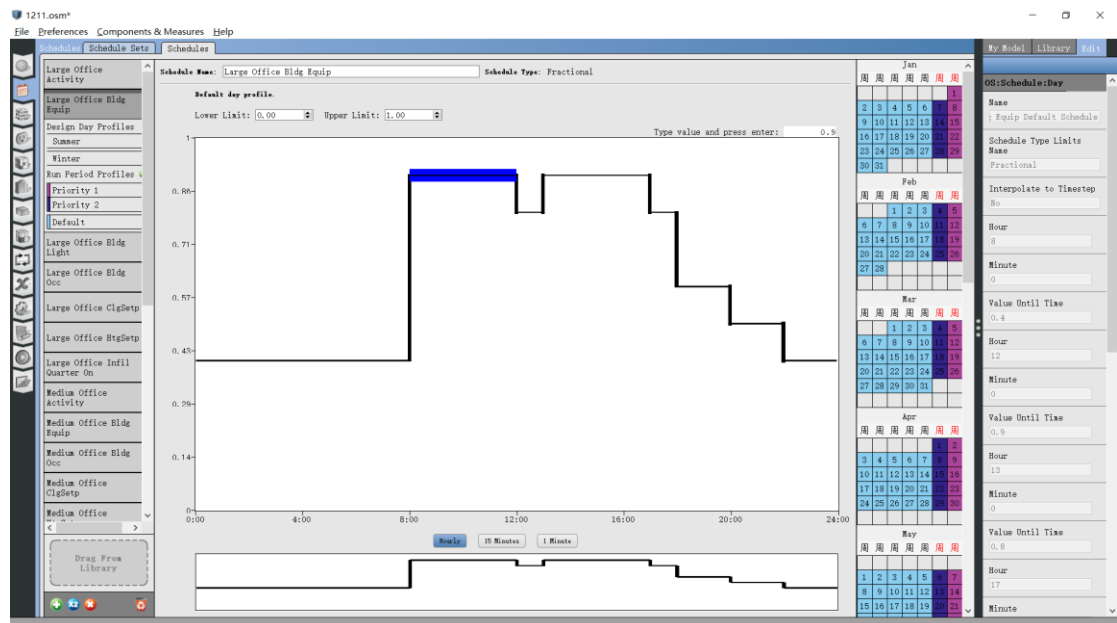6. Put the new material in our custom construction

7. Our new construction can be used in construction sets.

8. Copy and edit a time schedule.

9. We can edit the schedule here

10. Edit people and light sets here.