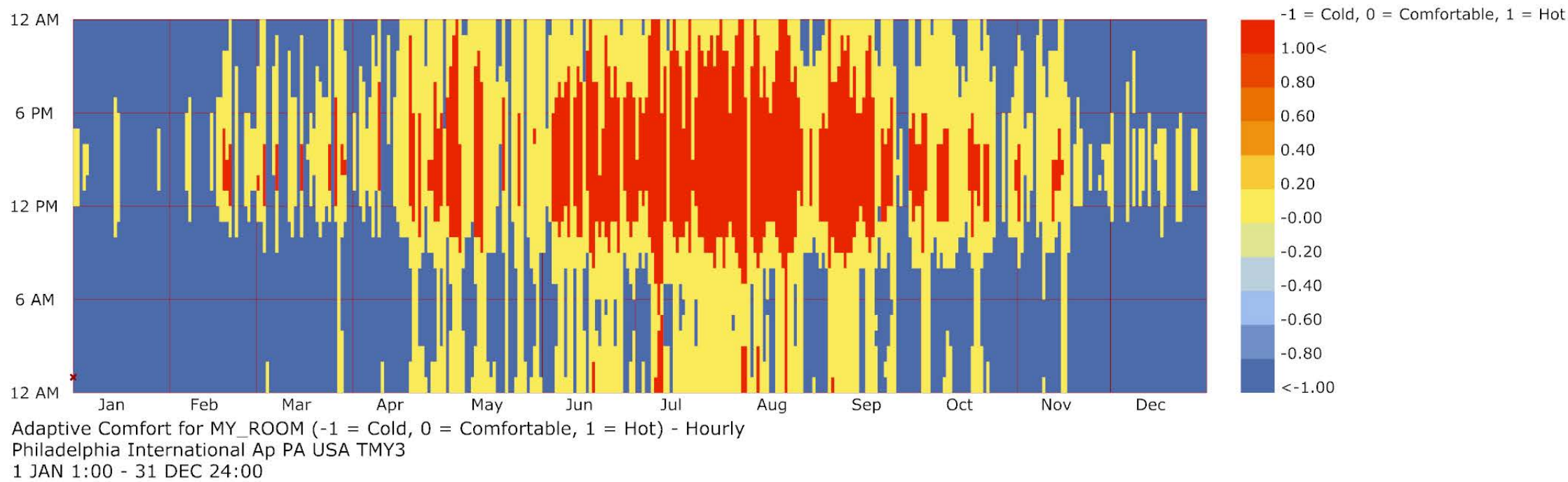
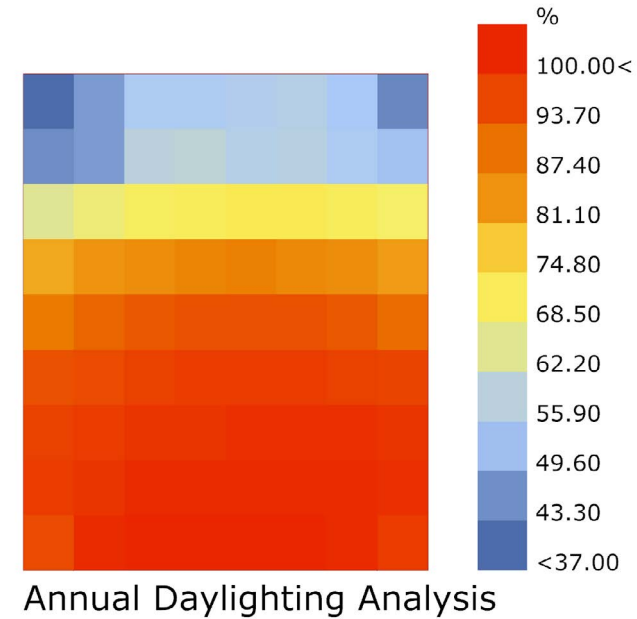
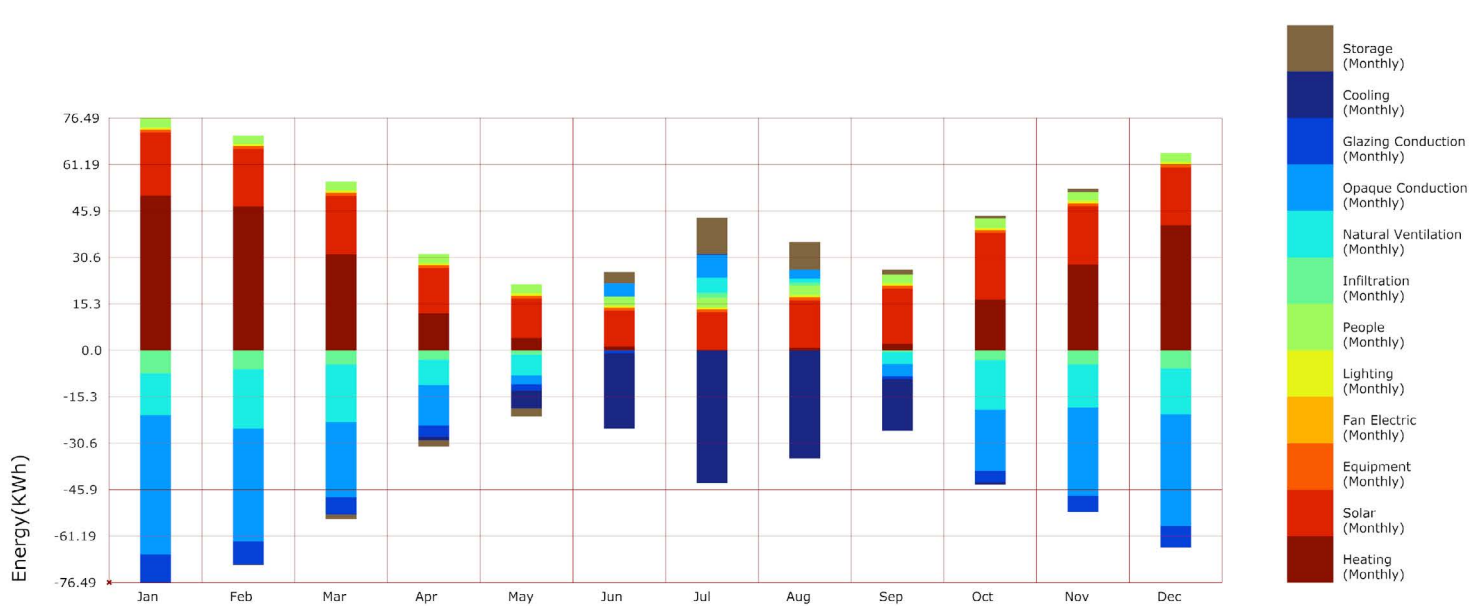
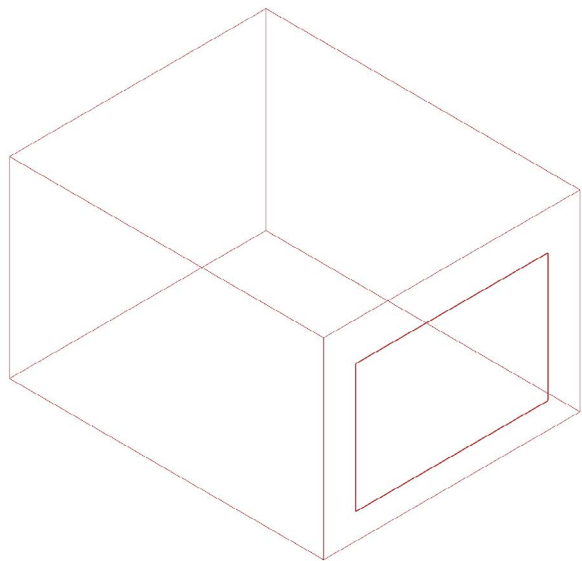


Assignment 8

Original Room

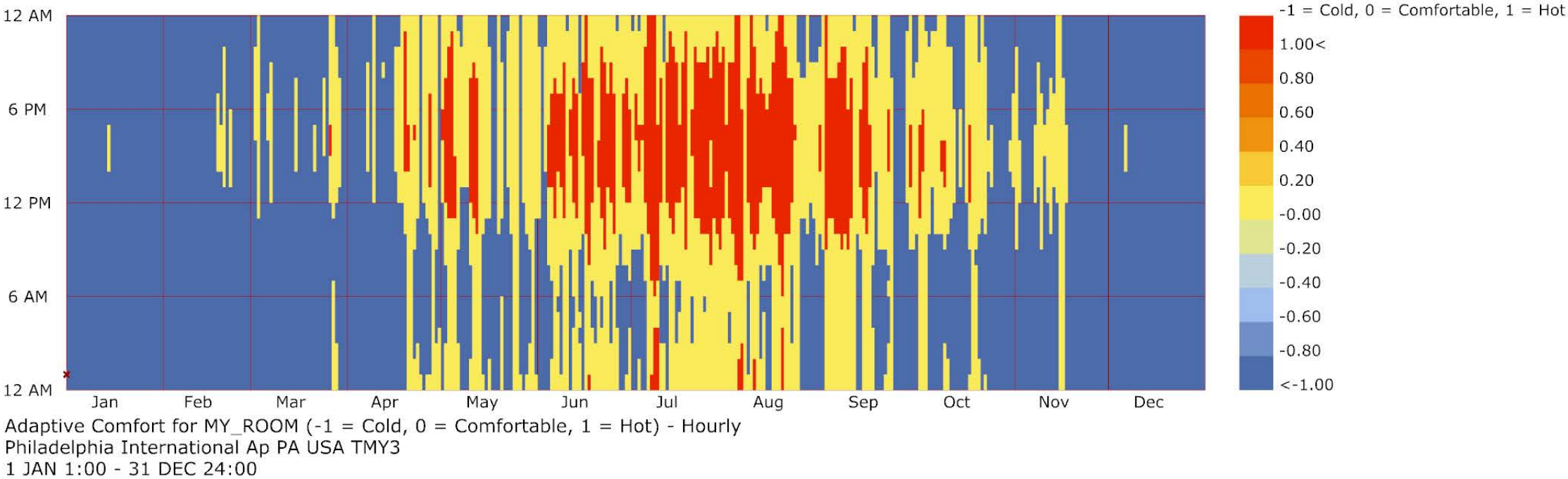
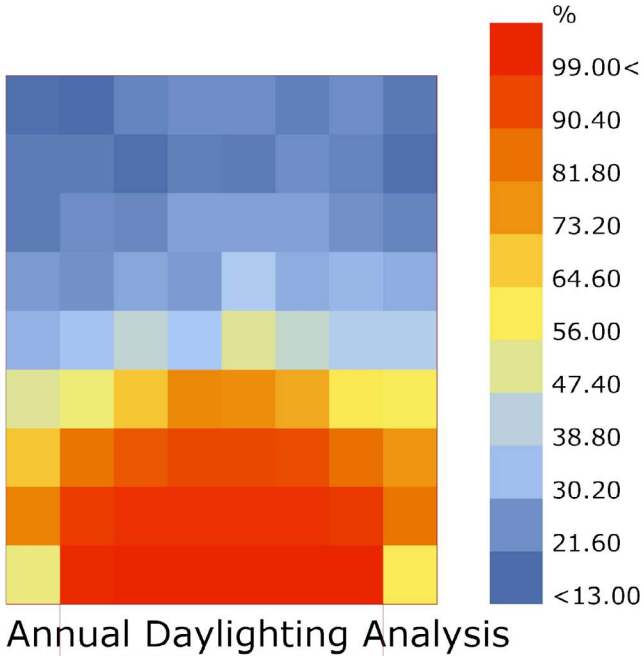
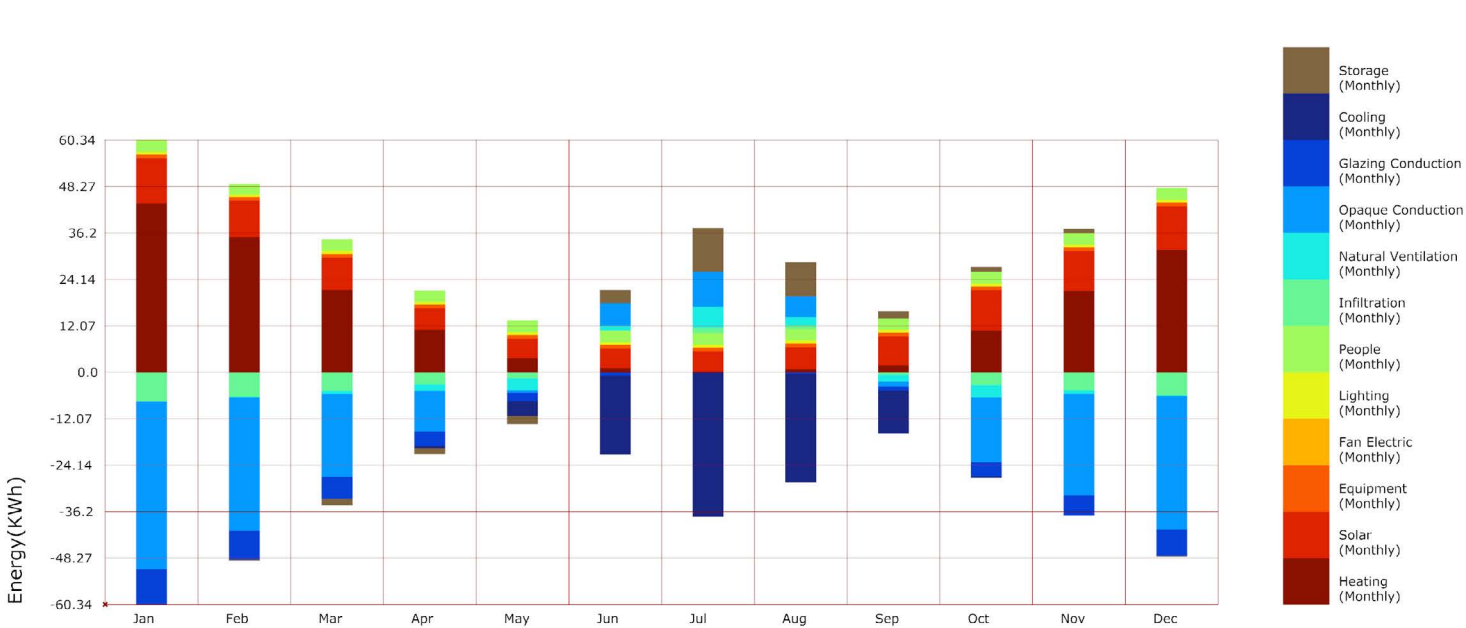
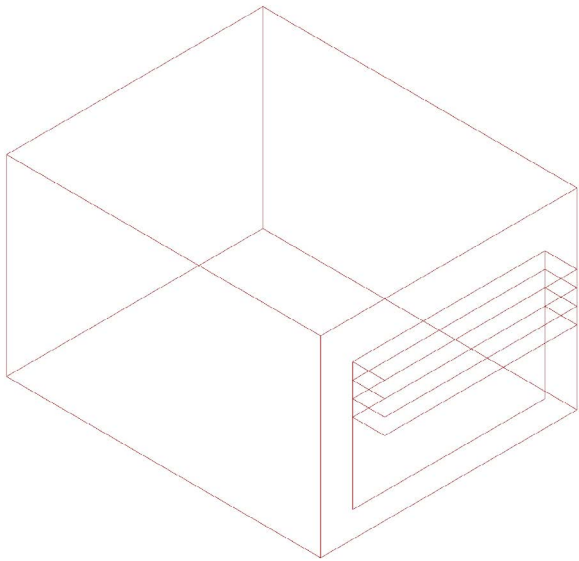
One problem is too hot in Summer, especially in the afternoon of June, July and August. And another one is too much cold time in Winter. Next step is to adding shading system.



Base Condition	
	{0}
key:location/dataType/un	
0 its/frequency/startsAt/e	
ndsAt	
Philadelphia	
1 International Ap PA USA	
TMY3	
2 Electric Lighting Energy	
for MY_ROOM	
3 kWh	
4 Monthly	
5 (1, 1, 1)	
6 (12, 31, 24)	
7 5.277295	
8 5.26105	
9 4.232975	
10 2.559743	
11 1.770702	
12 4.601968	
13 2.25573	
14 2.993716	
15 4.11694	
16 4.188882	
17 3.671363	
18 3.035489	

Room with shading

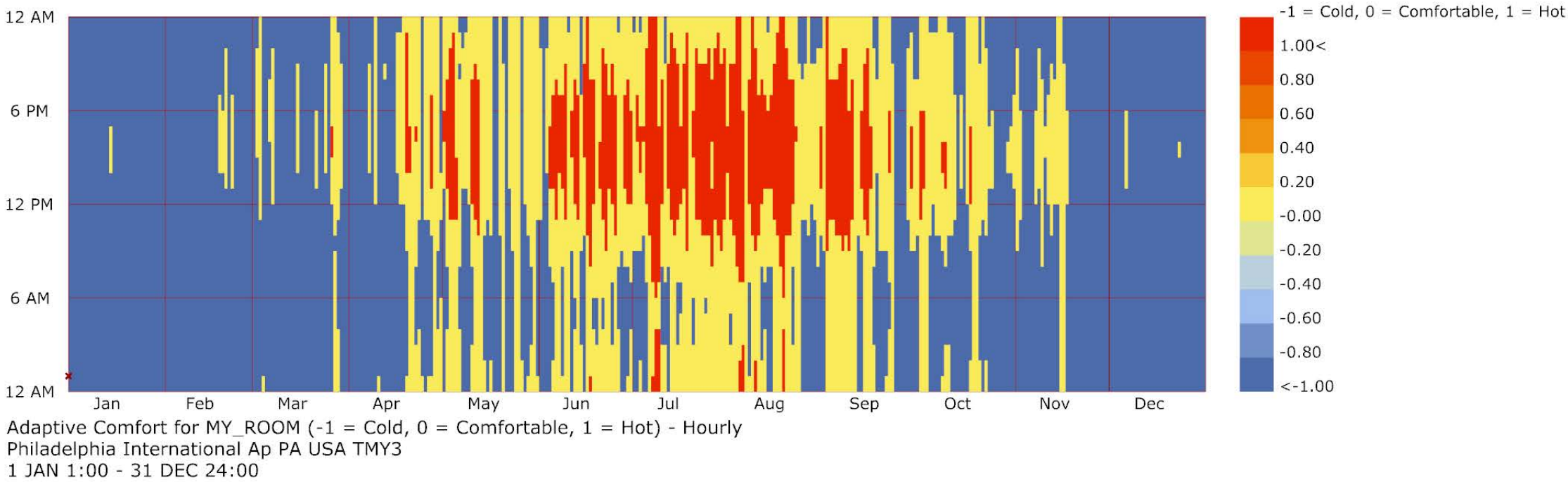
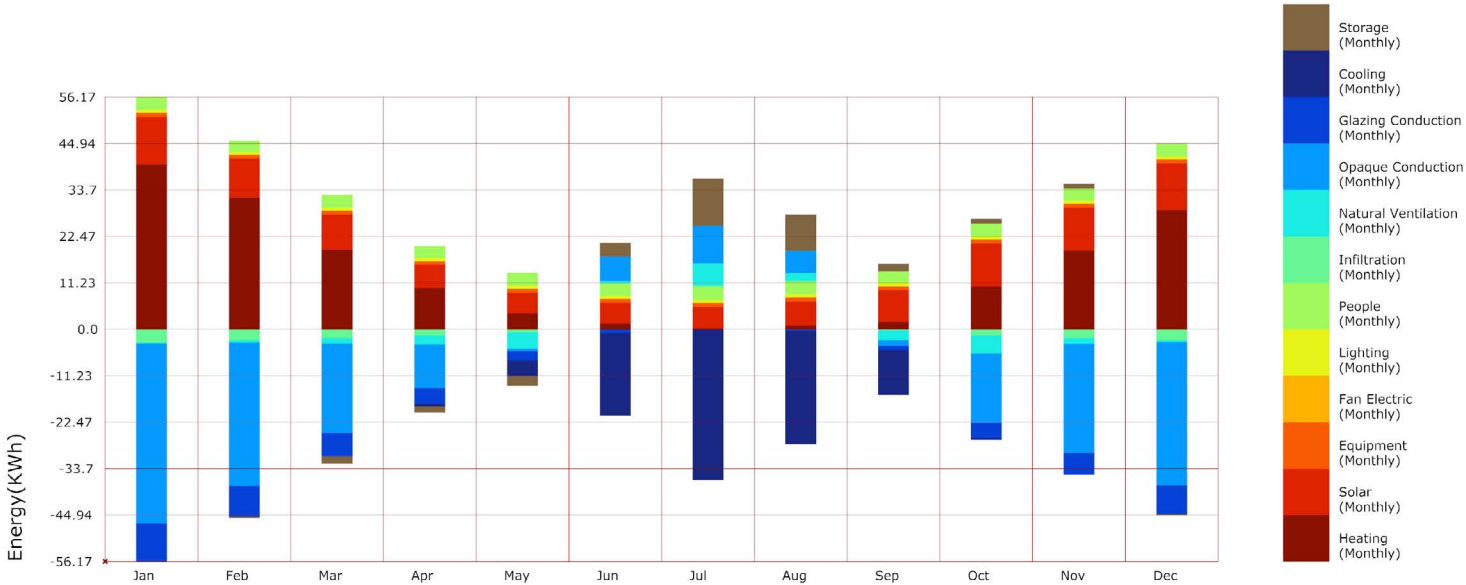
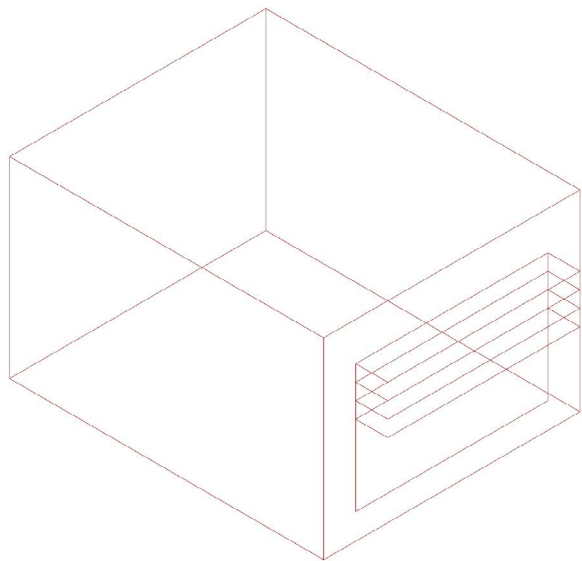
The shading system works, but at the same time, it increases the cold time. Next step is to reduce the infiltration.



Adding 4 layer shading	
	{0}
key:location/dataType/unit	
0 s/frequency/startsAt/endsAt	
1 Philadelphia International	
2 Ap PA USA TMY3	
3 Electric Lighting Energy	
4 for MY_ROOM	
5 kWh	
6 Monthly	
7 (1, 1, 1)	
8 (12, 31, 24)	
9 9.313009	
10 8.670173	
11 9.986015	
12 8.593589	
13 9.874621	
14 8.730511	
15 9.384951	
16 8.031977	
17 9.092542	
18 6.001356	
19 7.927545	
20 6.676683	

Change Infiltration

The infiltration is changed from 0.0003 to 0.0001. It works a little bit, but not obvious.Next step is to using lights and euipments to increase comfort.



Using Lights and Equipments

After using lights and equipments, it improves efficiently.

