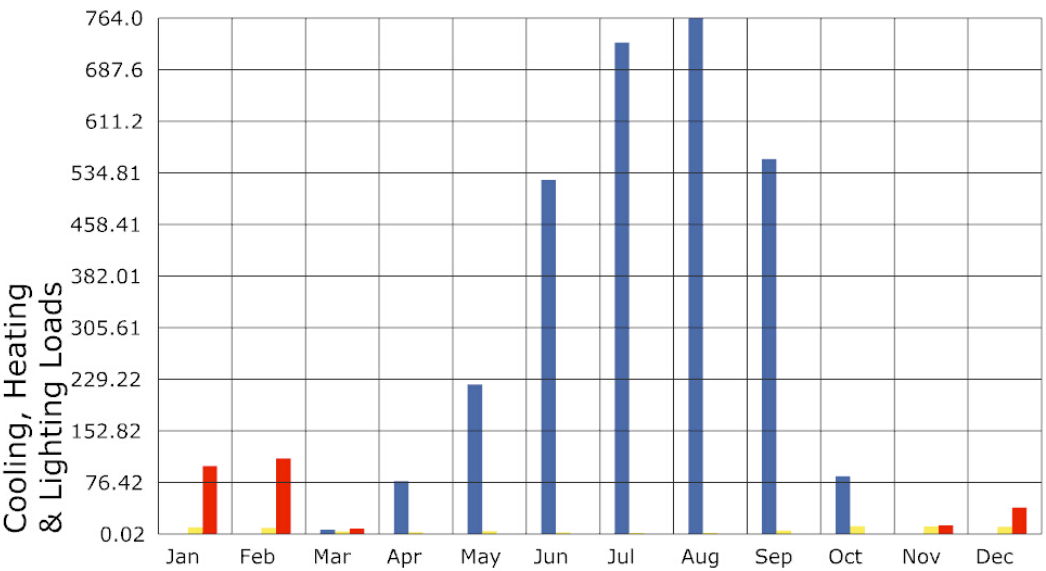
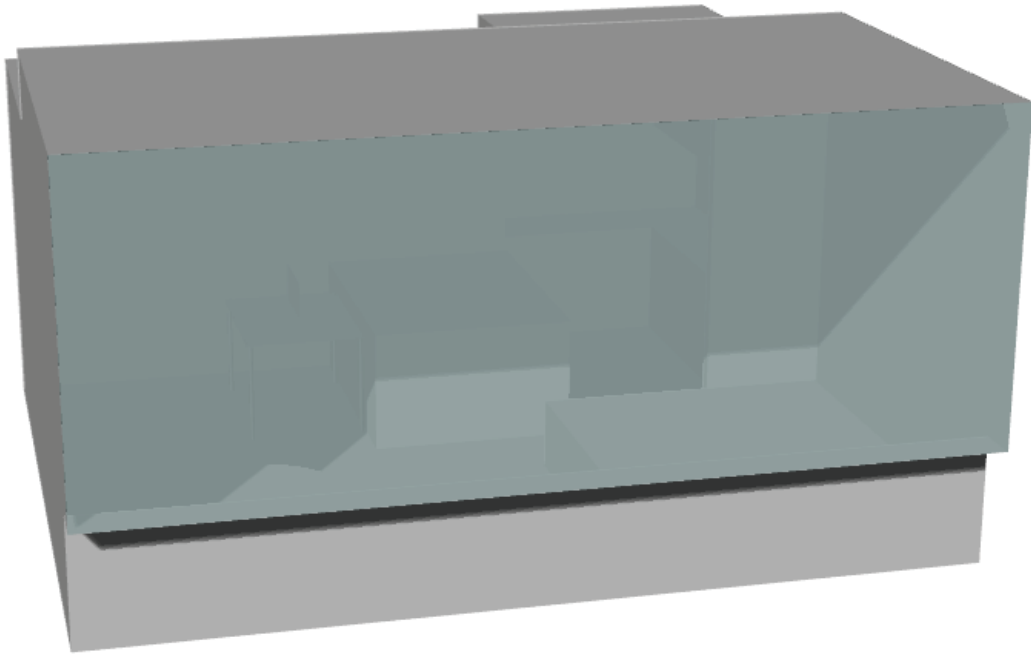


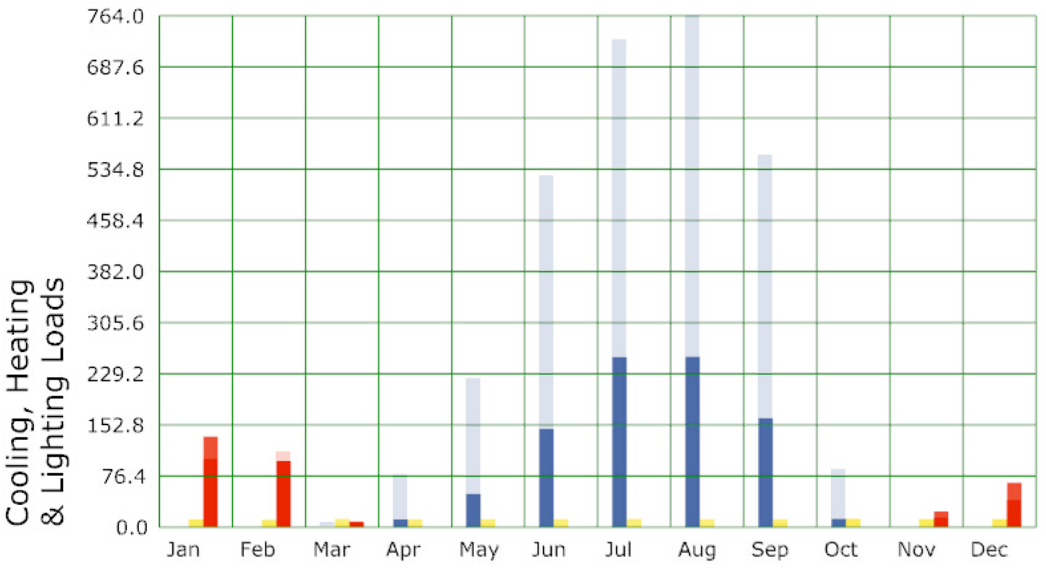
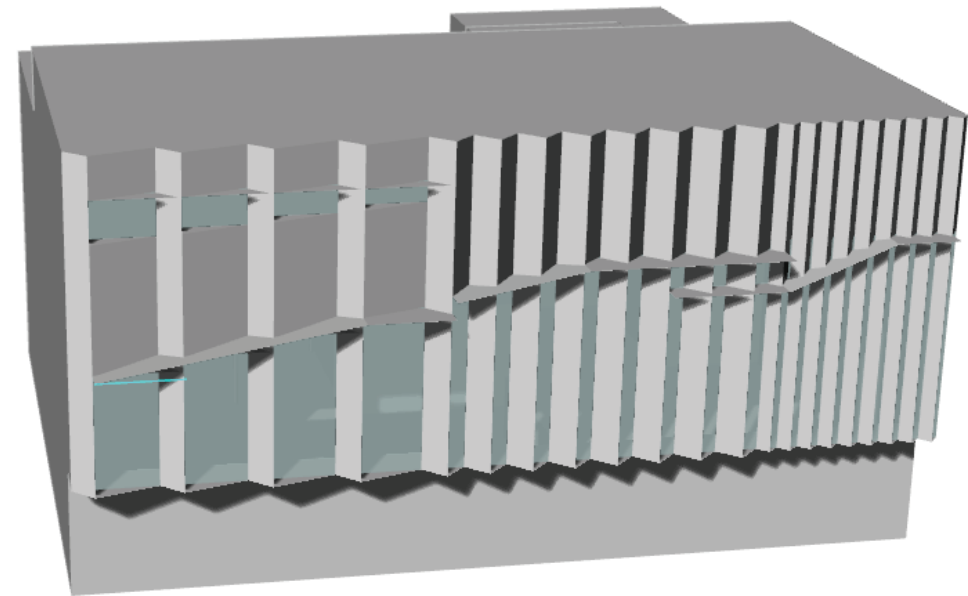
Agnes Xi Yao  
Energy Simulation Results



Heating Energy for TEST\_ROOM (Monthly)  
Electric Lighting Energy for TEST\_ROOM (Monthly)  
Cooling Energy for TEST\_ROOM (Monthly)

Philadelphia International Ap PA USA TMY3

Annual Cooling : 2965.76  
Annual Heating : 275.74  
Total : 3241.50



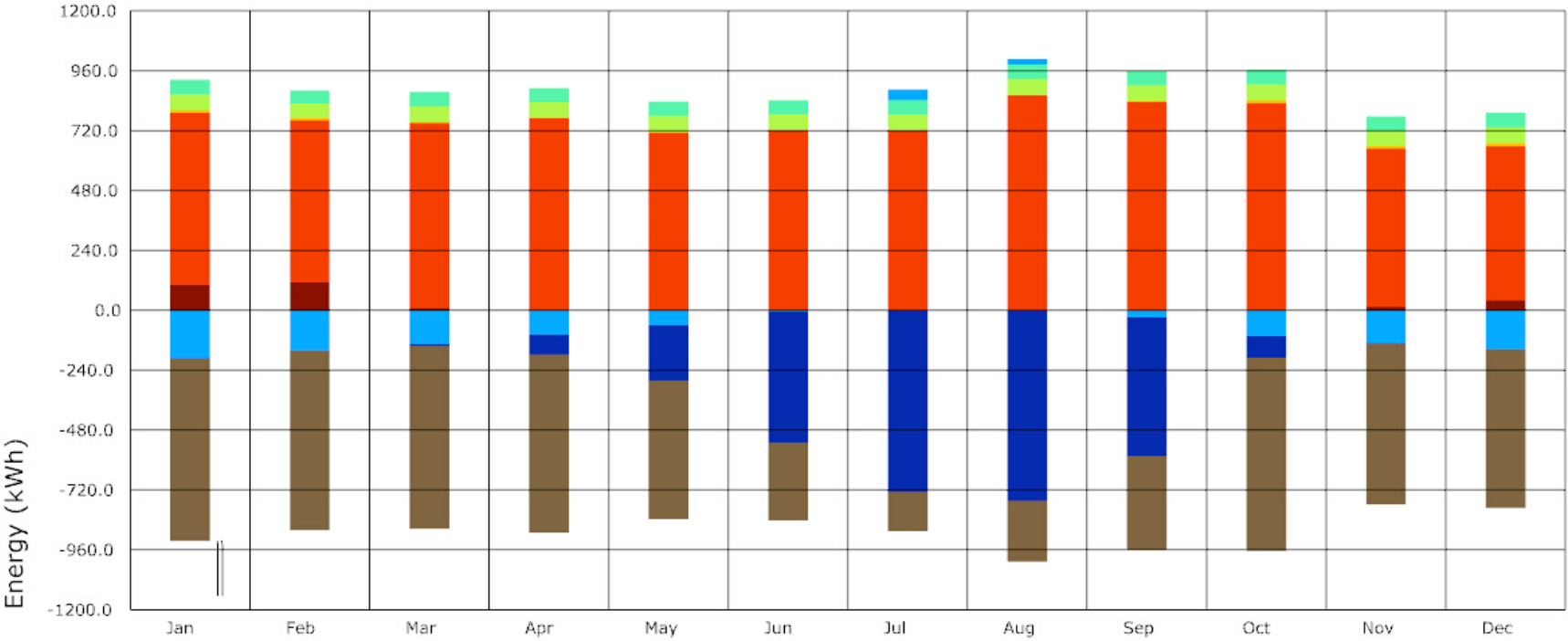
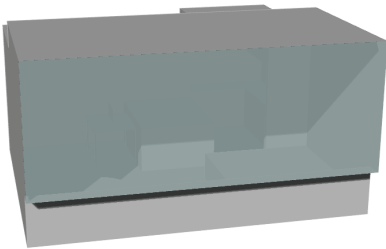
Heating Energy for TEST\_ROOM (Monthly)  
Electric Lighting Energy for TEST\_ROOM (Monthly)  
Cooling Energy for TEST\_ROOM (Monthly)

Philadelphia International Ap PA USA TMY3

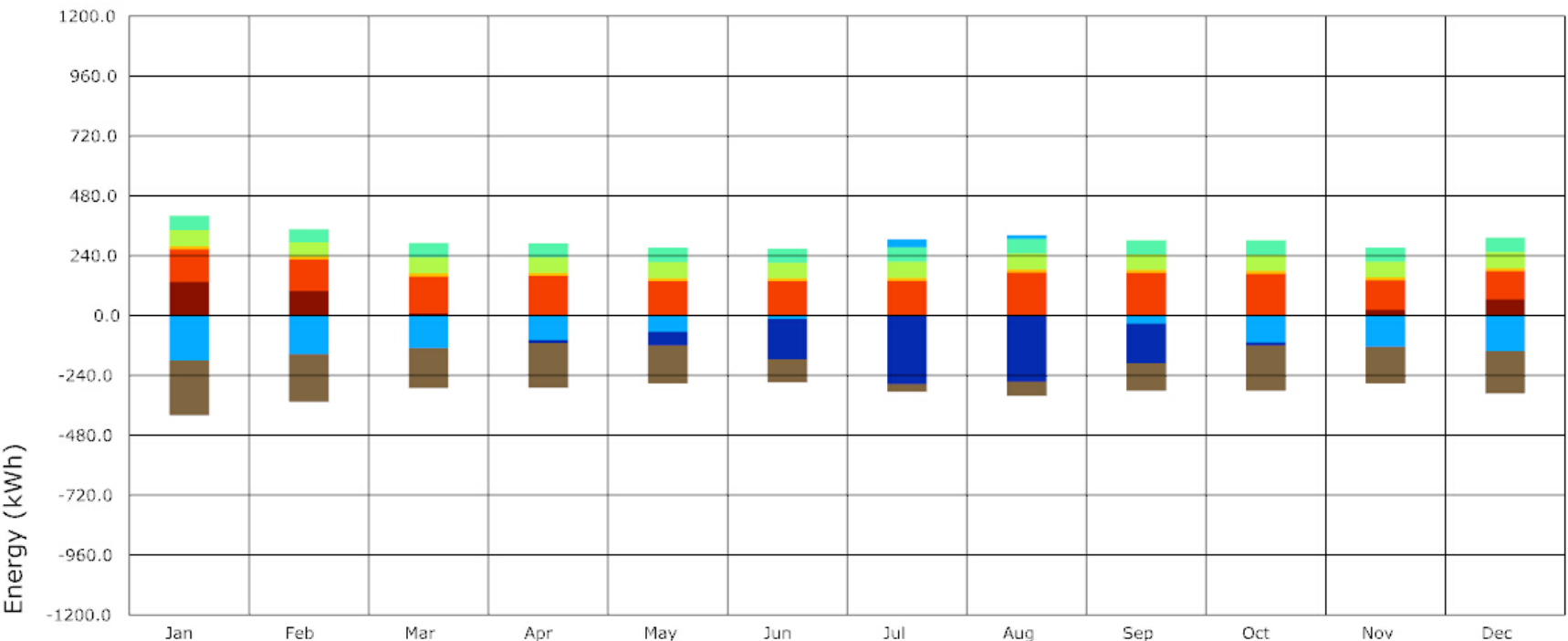
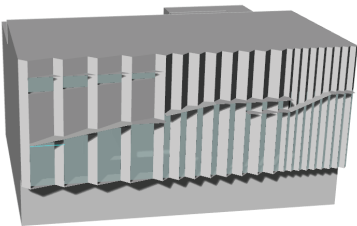
Annual Cooling : 894.10  
Annual Heating : 334.51  
Total : 1228.61



Energy Balance



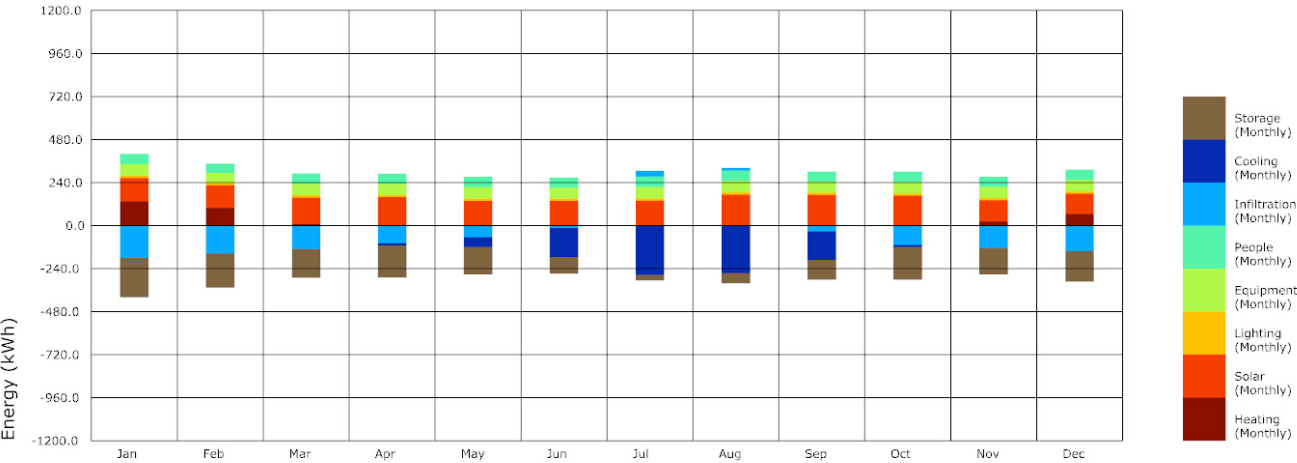
Energy Balance



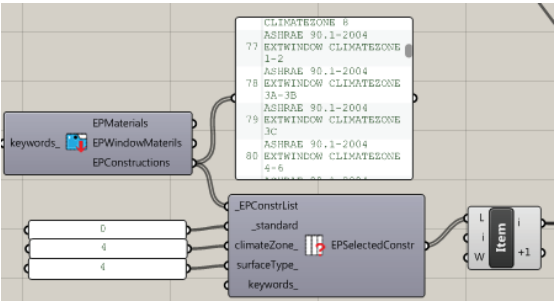
Energy Balance

# Glass Type

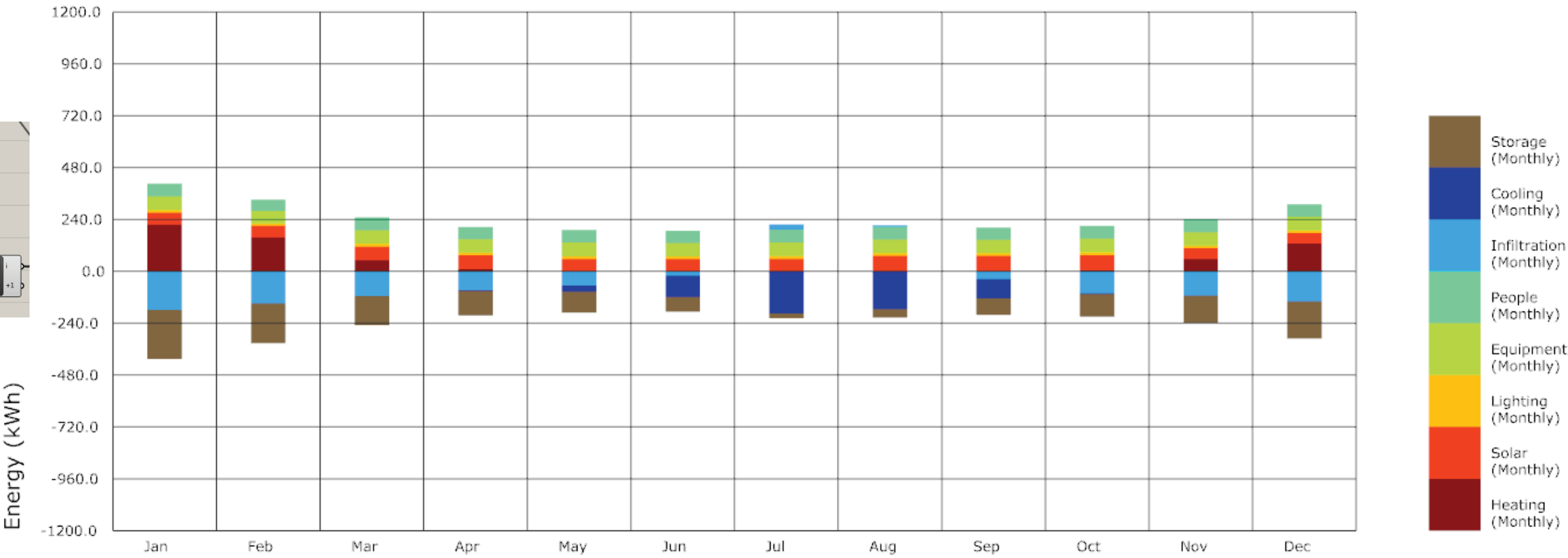
Annual Cooling : 894.10  
Annual Heating : 334.51  
Total : 1228.61



Energy Balance

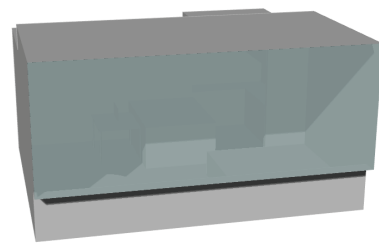


Annual Cooling : 592.01  
Annual Heating : 622.01  
Total : 1214.05

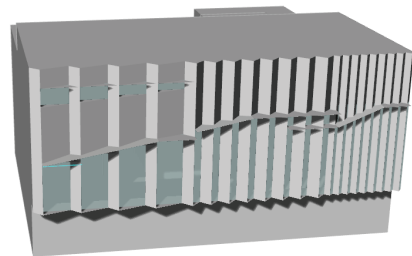
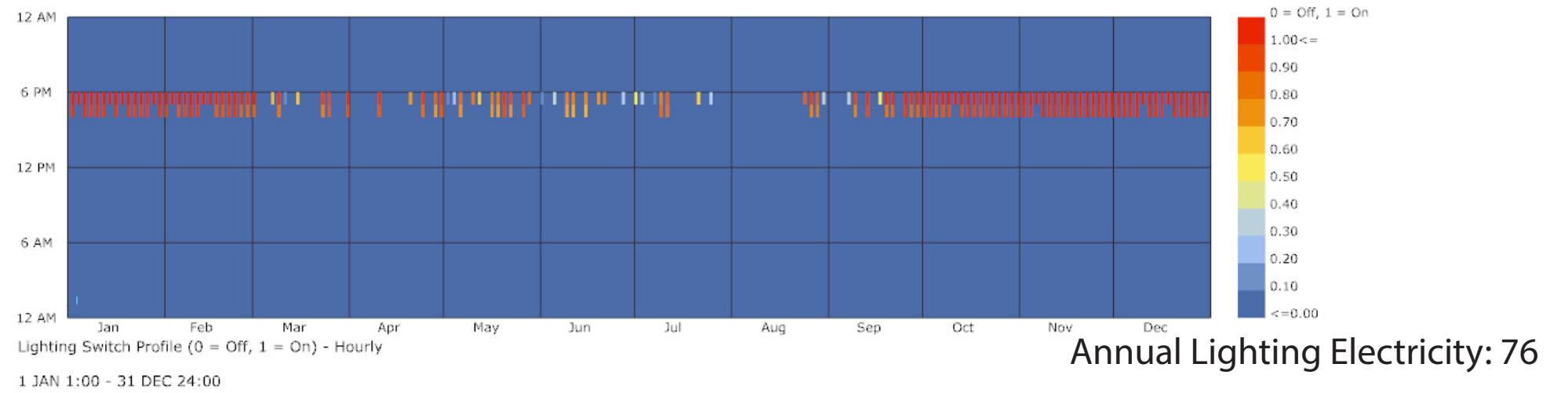


Energy Balance

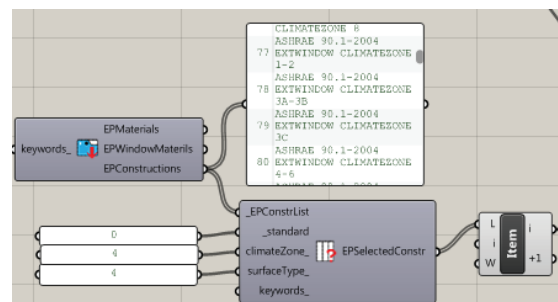
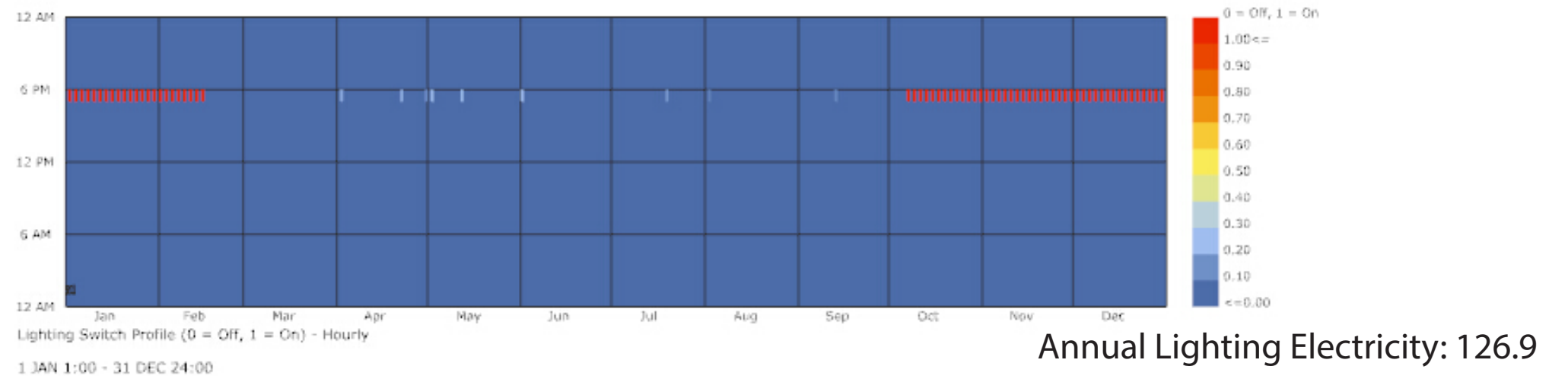
Decrease in Cooling load but increase in Heating Load. while the total load was not changed much. If natural ventilation could be applied during summer, the cooling load during summer is easier to be reduced



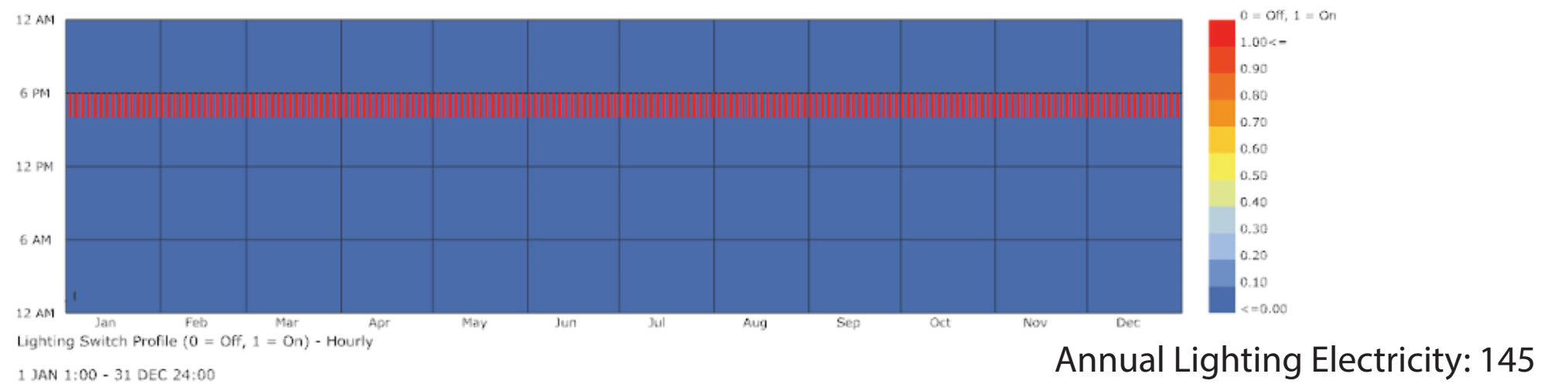
Base Line



Shaded



Reconstructed Glass



The daylighting during summer afternoon was sacrificed when the glass type was changed.