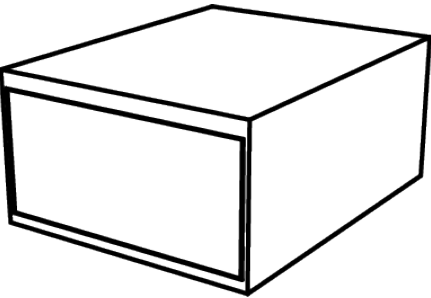


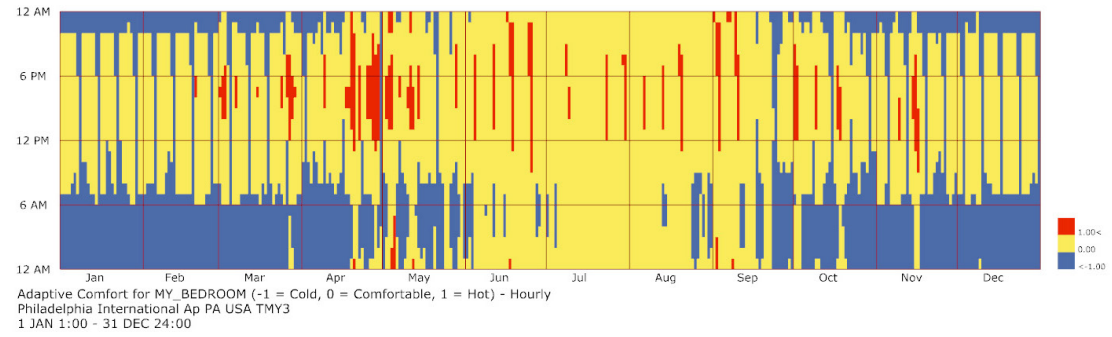
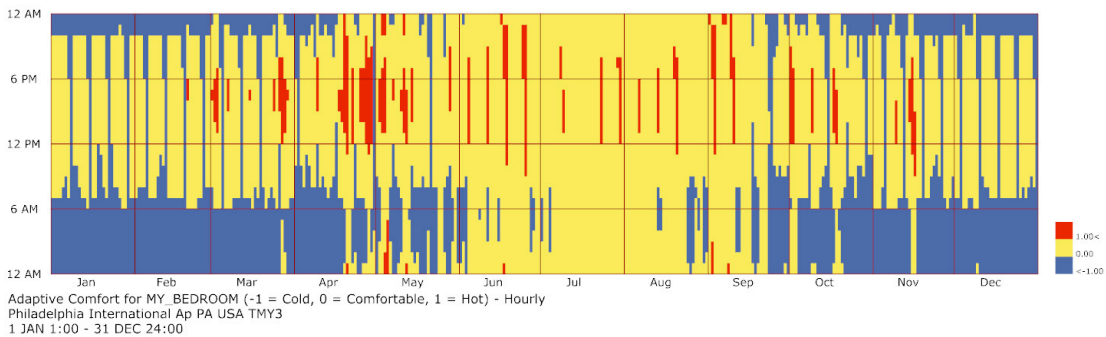
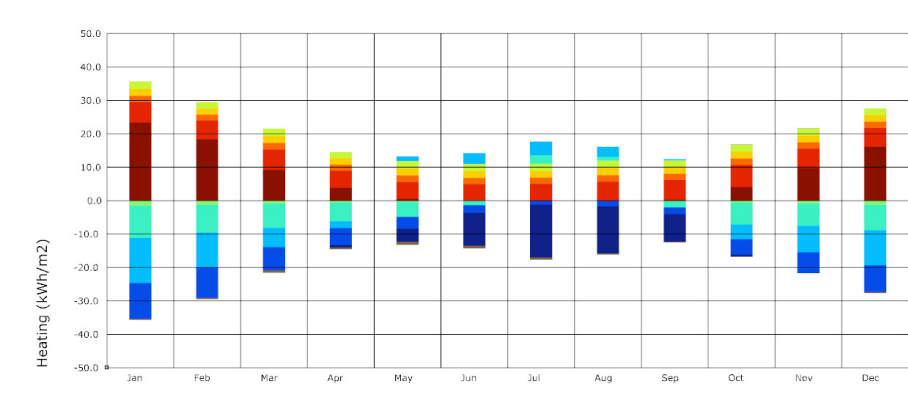
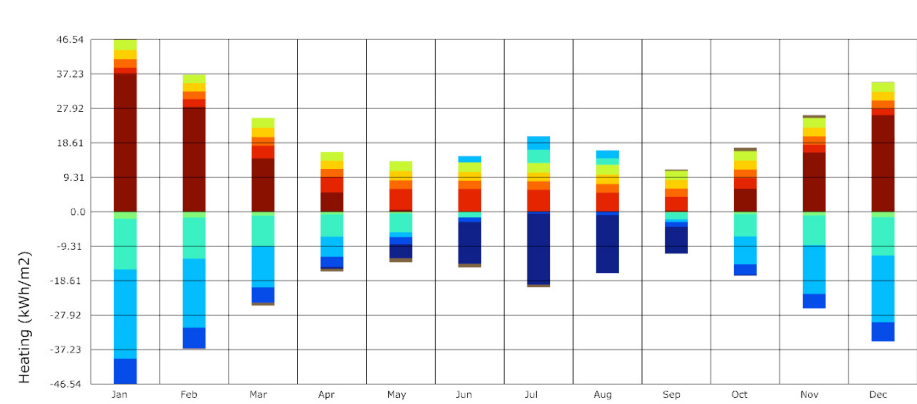
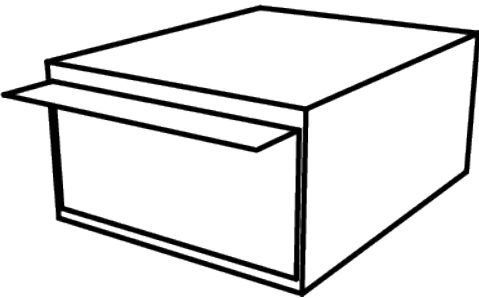
ENERGY MODEL FOR THE BEDROOM

In this assignment, I added the construction and airflow to the energy model for my bedroom. I checked different plans for the bedroom. Originally, my bedroom has a window facing north. and in order to get enough day lighting, I enlarged my window in the previous assignments. This time, I tried to adjust the size of shade and add window on the south wall. According to my analysis, I found it would be most efficient for the comfortable ratio when my bedroom only has window on the northwall. But when I have windows on the south wall and have some proper shading, the energy balance would be more efficient.

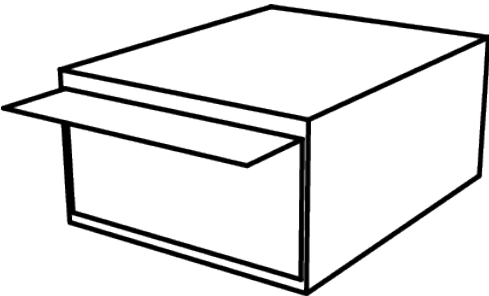
Window: North
Shading: No shading
Comfortable Ratio: 64.0%



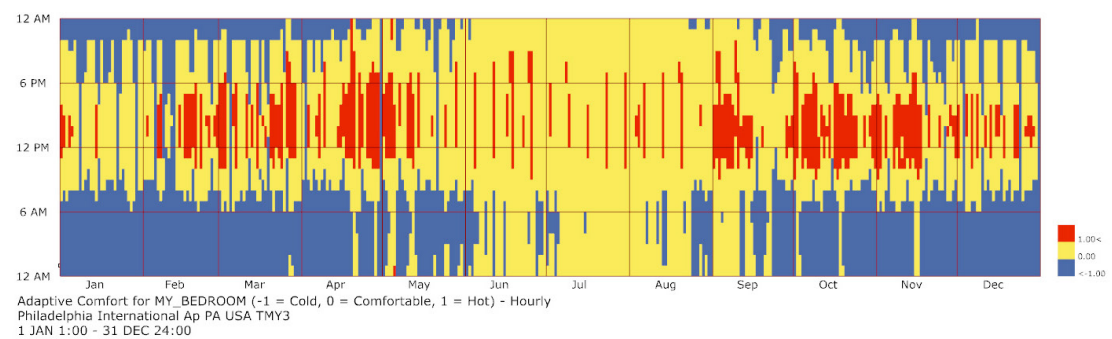
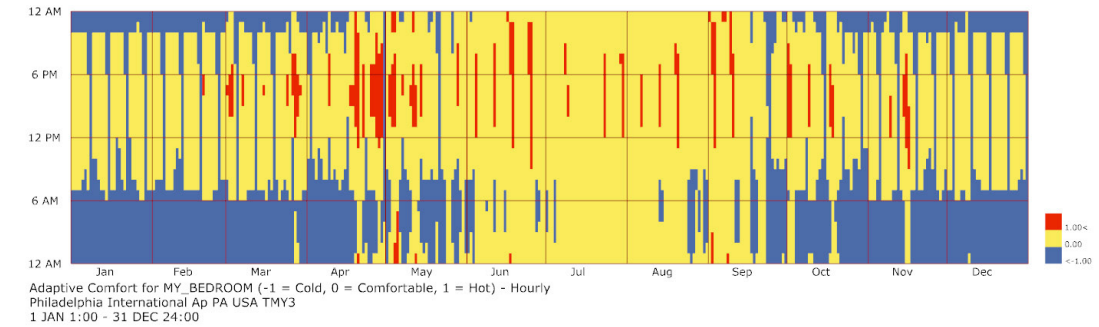
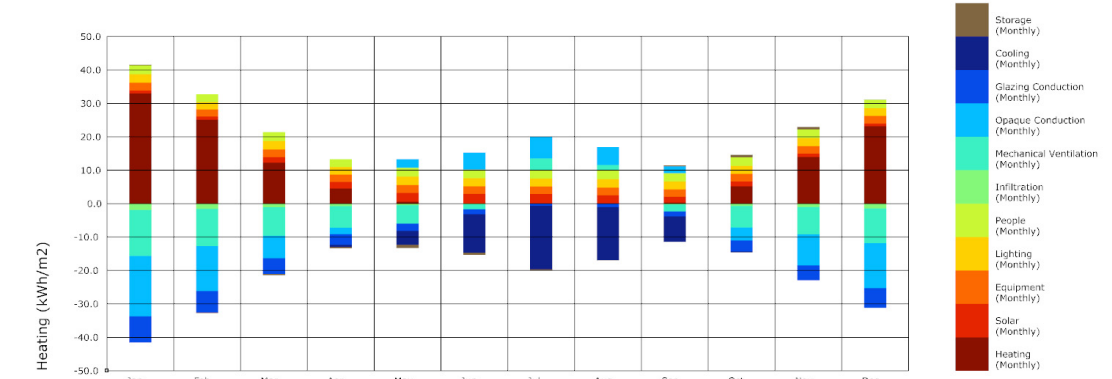
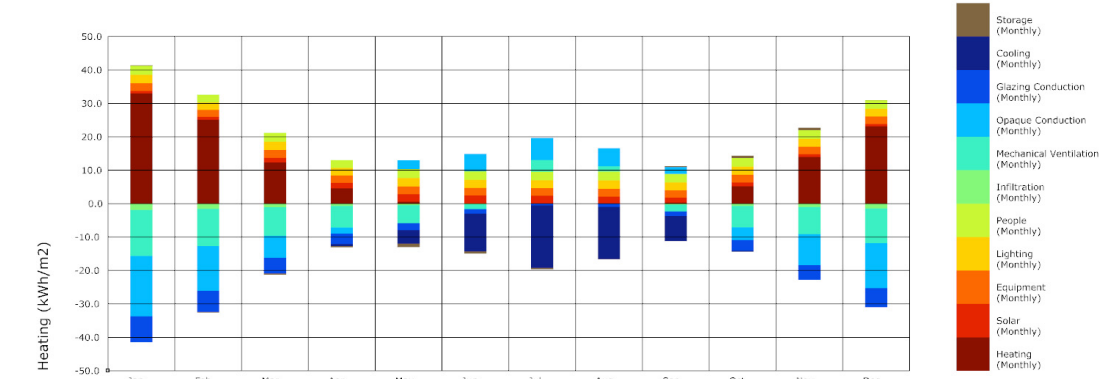
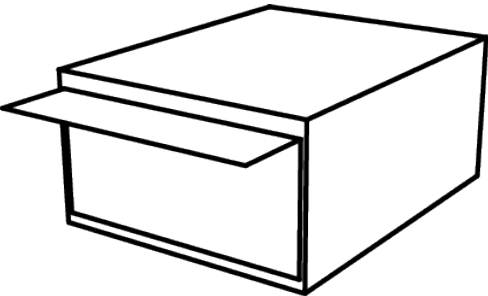
Window: North
Shading: 0.6m
Comfortable Ratio: 64.3%



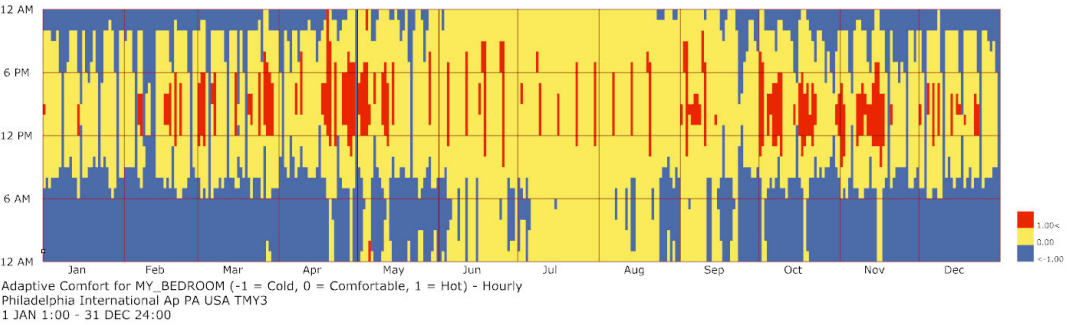
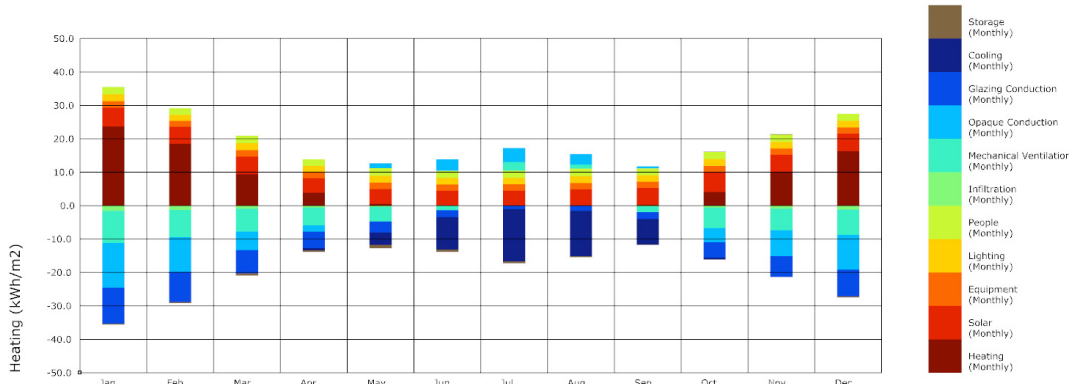
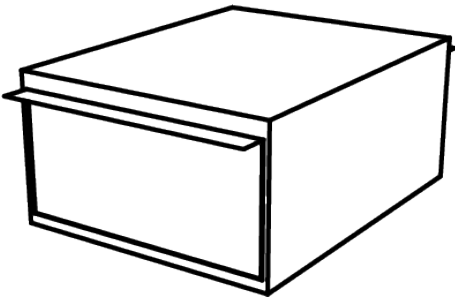
Window: North
Shading: 1.6m
Comfortable Ratio: 54.5%



Window: North & South
Shading: North 1.6m & South No shading
Comfortable Ratio: 57.3%



Window: North & South
Shading: North 0.6m & South 0.6m
Comfortable Ratio: 57.5%



Window: North & South
Shading: North North 1.6m & South 1.6m
Comfortable Ratio: 55.5%

