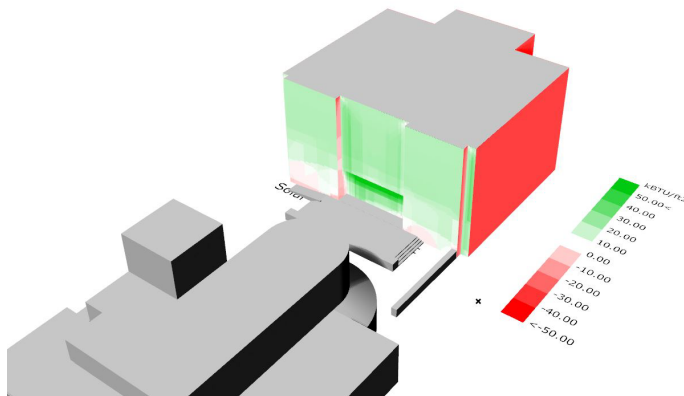


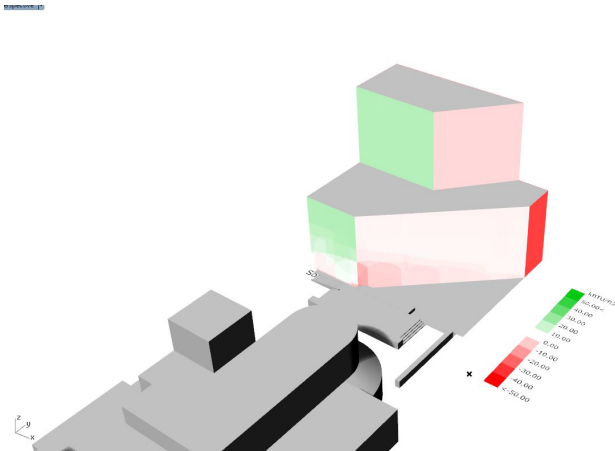
Massing re-design Mayerson Hall

Process

1. Change the location of Grasshopper. Find epw file of Philadelphia
2. Test the origin design of Mayerson hall. Find out the net solar benefit is -1169193
3. Testing the new model.



Origin Benefit Map



Redesign Massing Benefit Map

Thinking and Test result

On the south side, the result is green which means the net solar benefit is positive. The other three sides are red. Therefore, I need to increase the south face facade area and decrease others. Because this is a net benefit calculation, I could remain the south side same/maximum and minimum other sides. And my solution is trimming off the corner to eliminate non-south side.

In new design, the result is -1060532 > -1169193