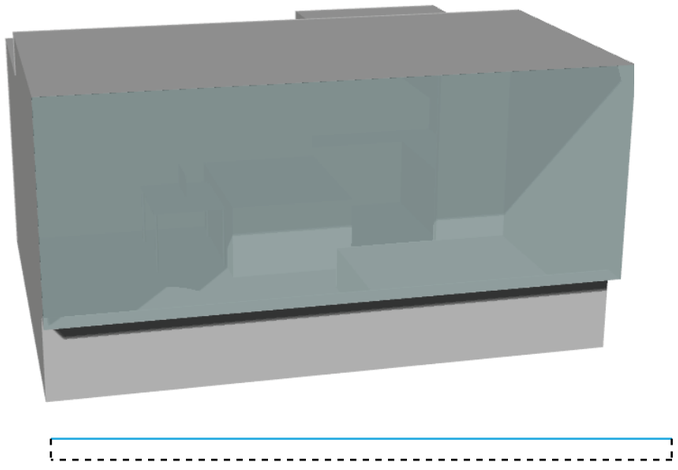
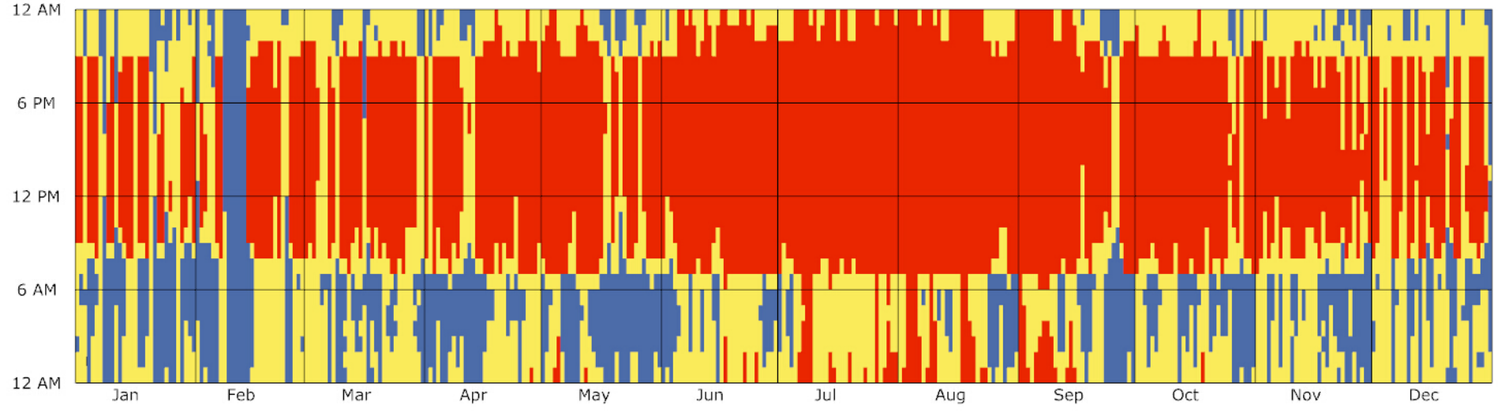
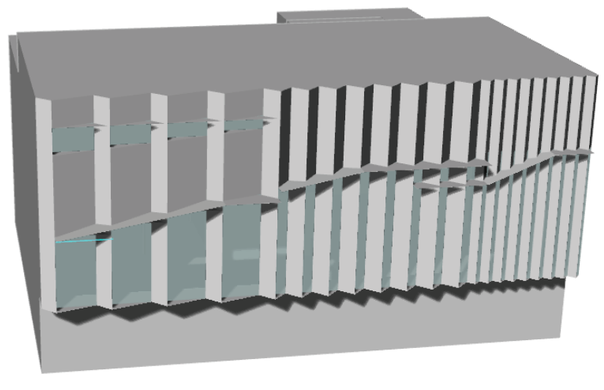
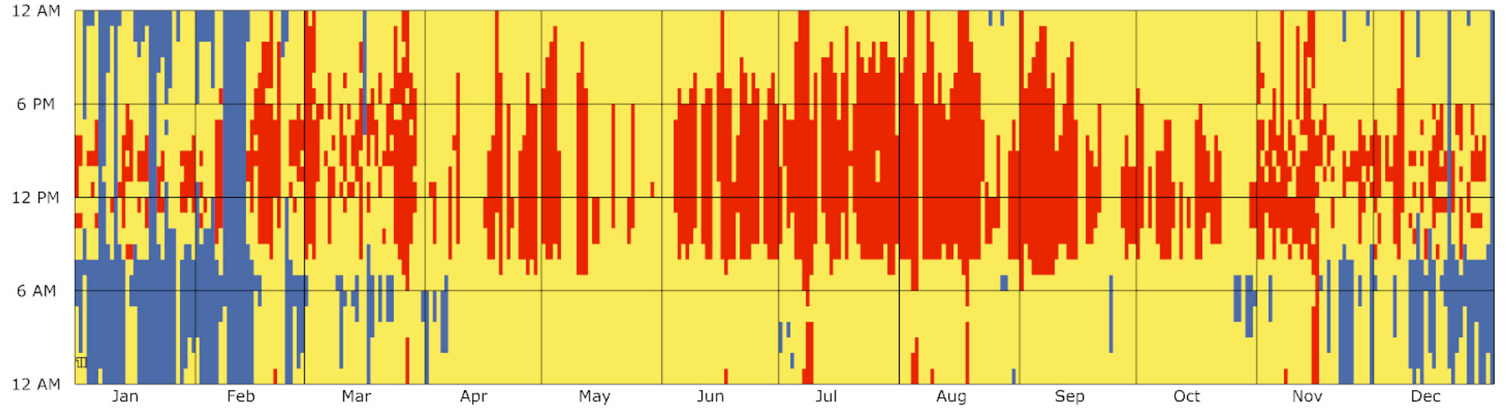
Agnes Xi Yao
Energy Simulation Results

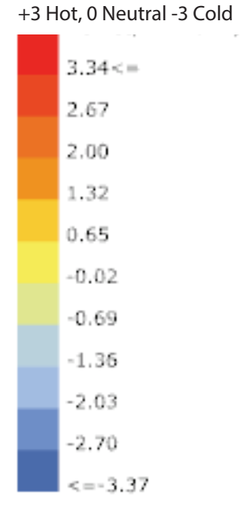




Baseline
Overheated during summer noons (no shading & Ventilation)
Temperature drops too fast during night (too much glass area)



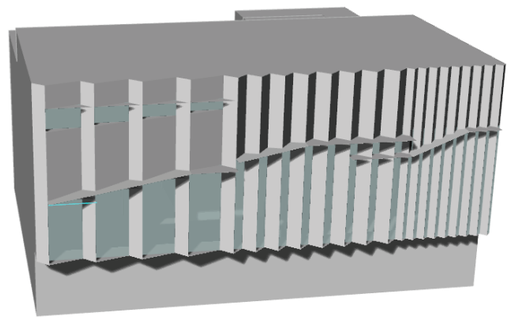


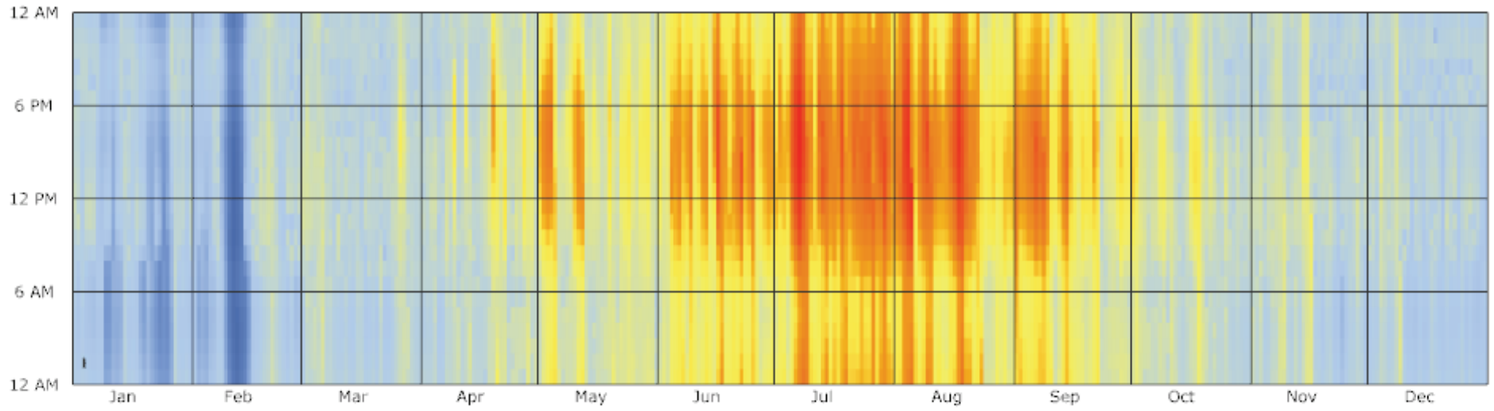


With Shading & Reduced glass area
Overheated hour reduced
Thermal Mass helped with the under heated hours during summer

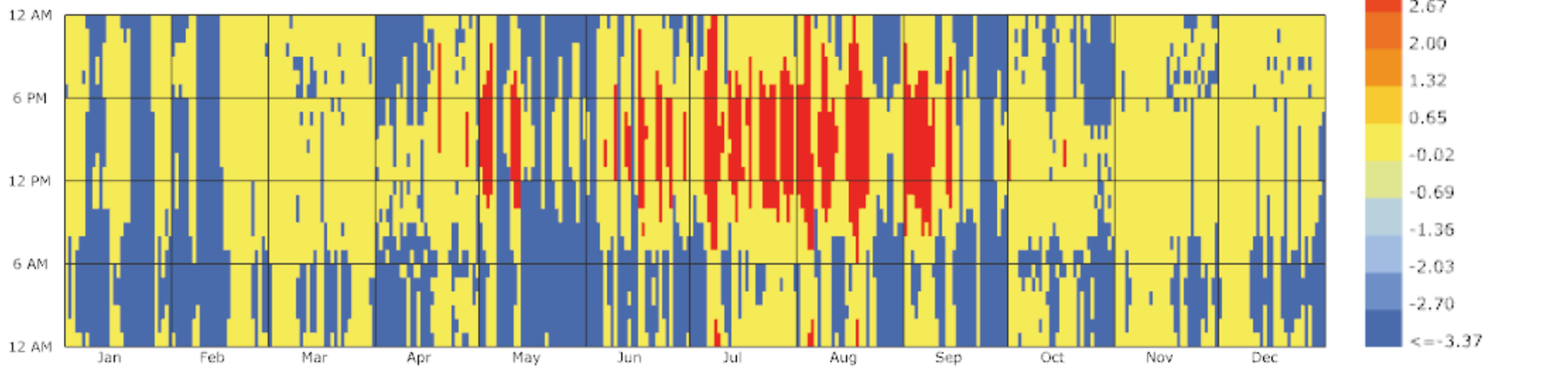
Agnes Xi Yao
Energy Simulation Results

Fan-Driven With Night Flush Shcedule





% comfortable
based on PMV: 14.58



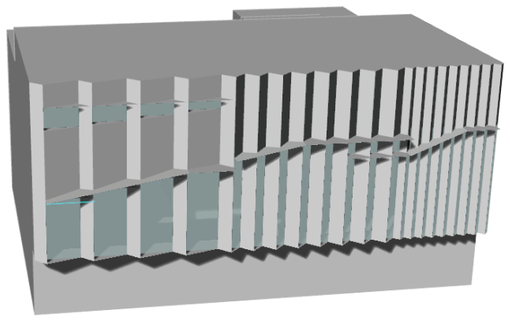
% comfortable based on
Adaptive Comfort 58.05

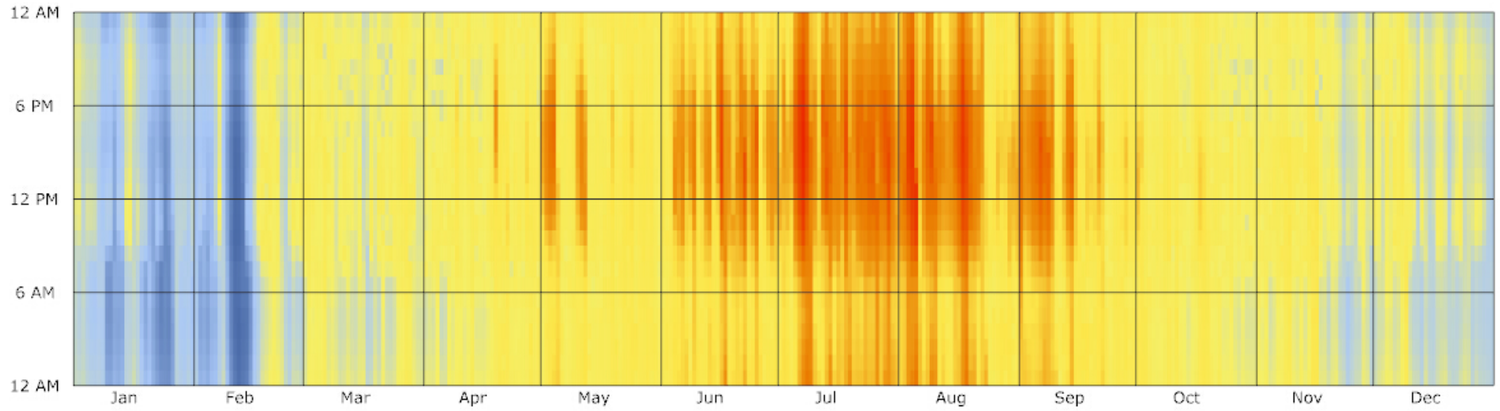
With Shading & Reduced glass area
Overheated hour reduced
Thermal Mass helped with the under heated hours during summer

Natural Ventilation

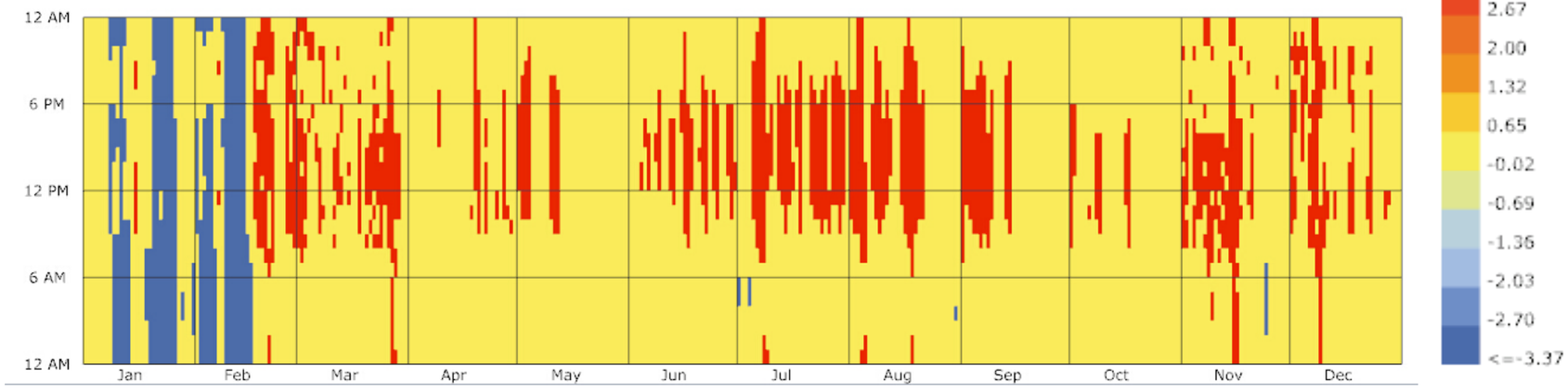
Agnes Xi Yao

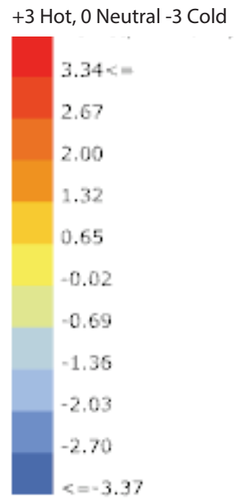
Energy Simulation Results





% comfortable
based on PMV: 53.66





% comfortable based on
Adaptive Comfort 73.41