

Energy Simulation I

110N 34th Street, Philadelphia

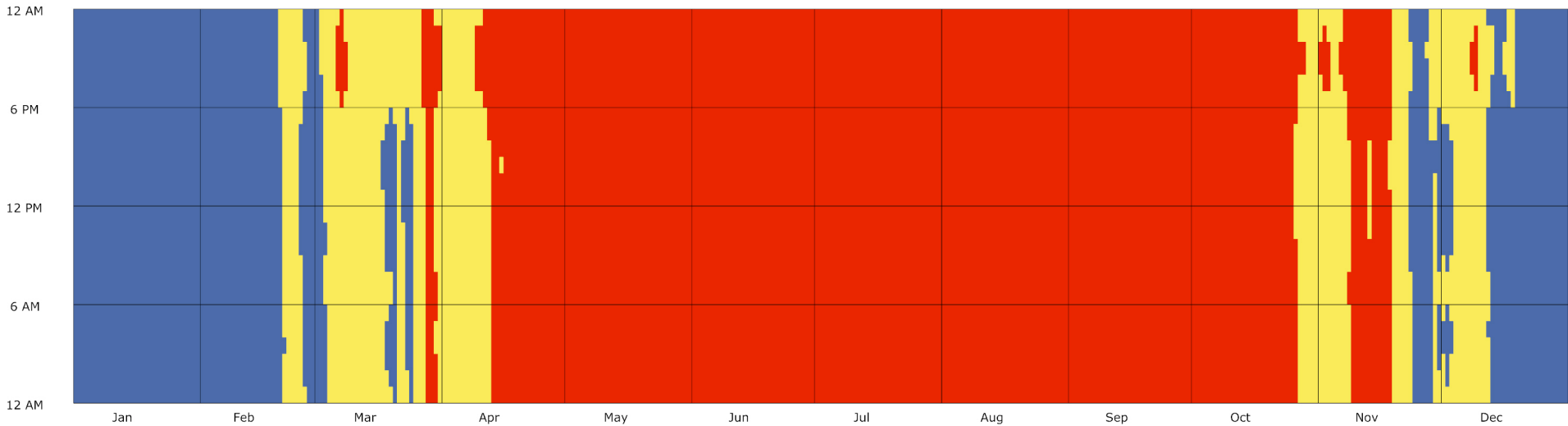
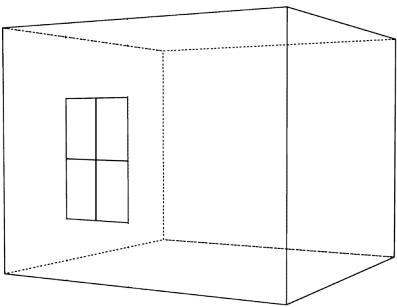
Aishwarya Katta-Adiseshaiah
ARCH_753_Building Simulation

Energy Simulation FOR “DREAM ROOM“

Philadelphia falls in Climate Zone 4A
according to energy.gov

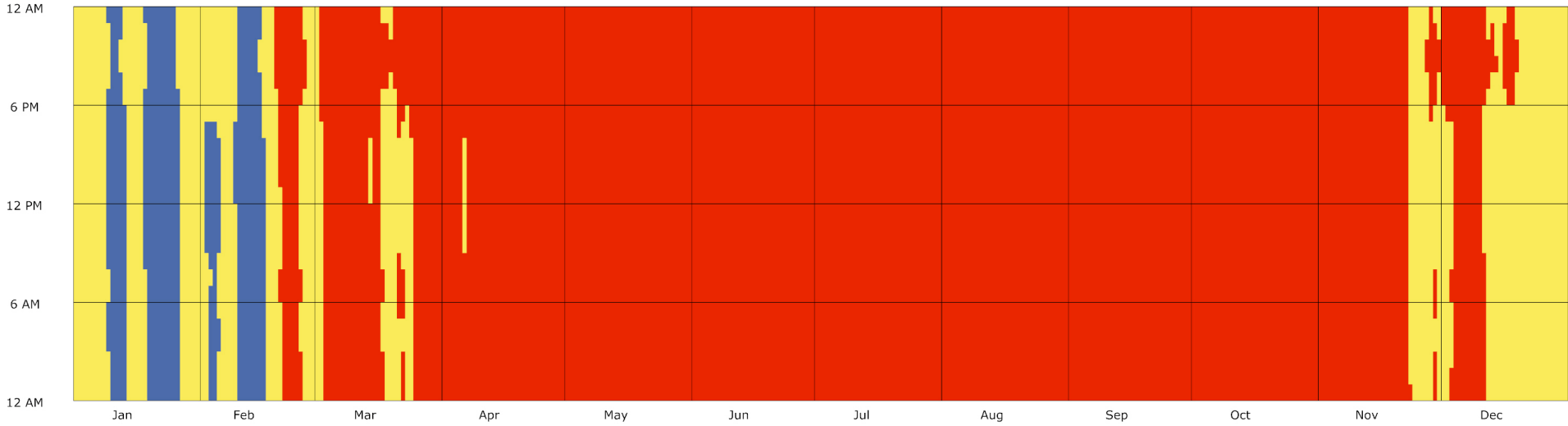
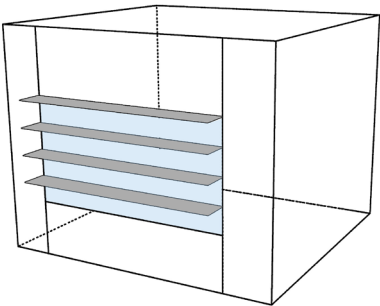
Philadelphia
110N 34th Street

Baseline Analysis



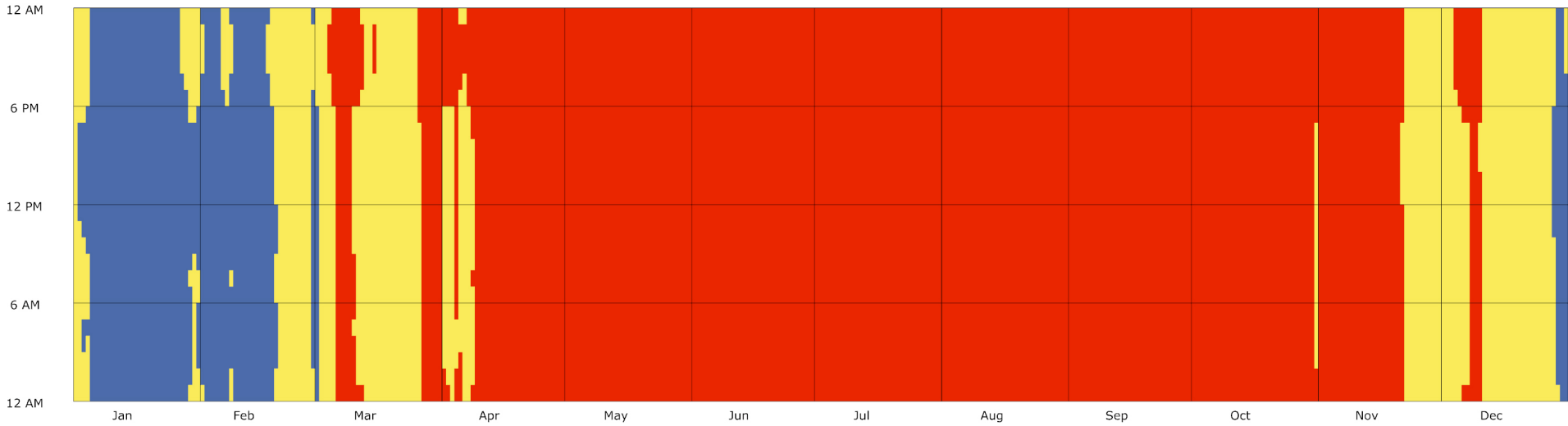
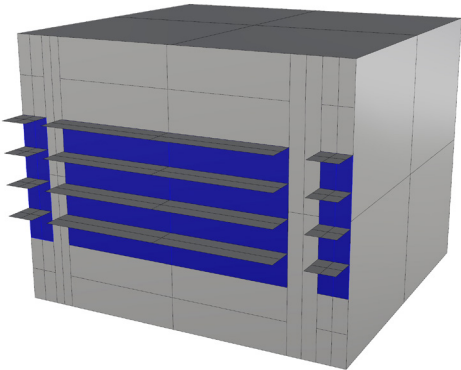
% of time comfortable: 18.4
% of time hot: 58.11
% of time cold: 23.48

Larger window and shading



% of time comfortable: 18.5
% of time hot: 75.6
% of time cold: 5.8

Final Proposed Design



% of time comfortable: 20.06
% of time hot: 66.8
% of time cold: 13.11

