

Energy Model and Analysis

Yunzhongda Peng | MSD 2017 Candidate

Arch 753 Building Performance Simulation

Instructor: Mostapha S. Roudsari

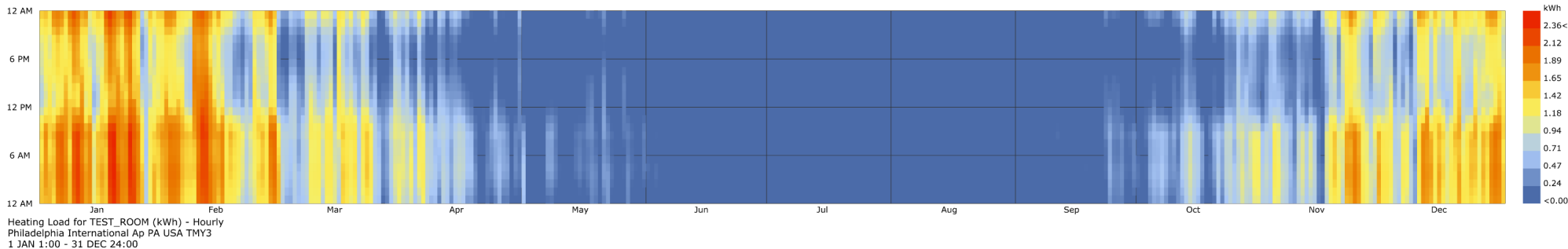
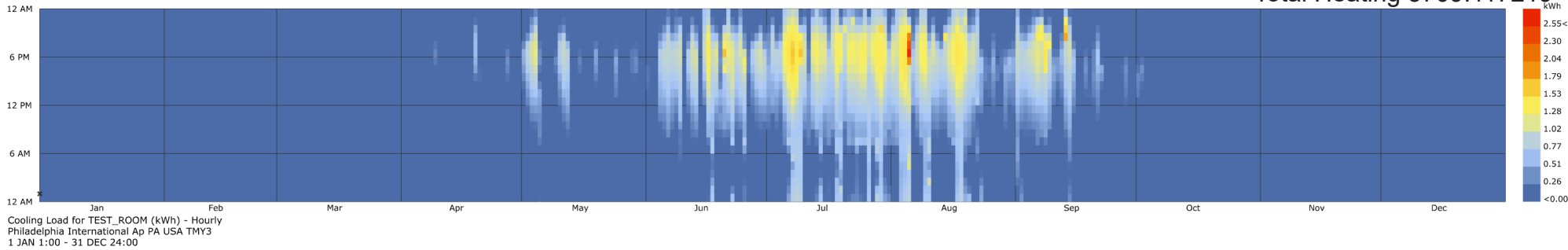
University of Pennsylvania

School of Design

Zone Energy Use

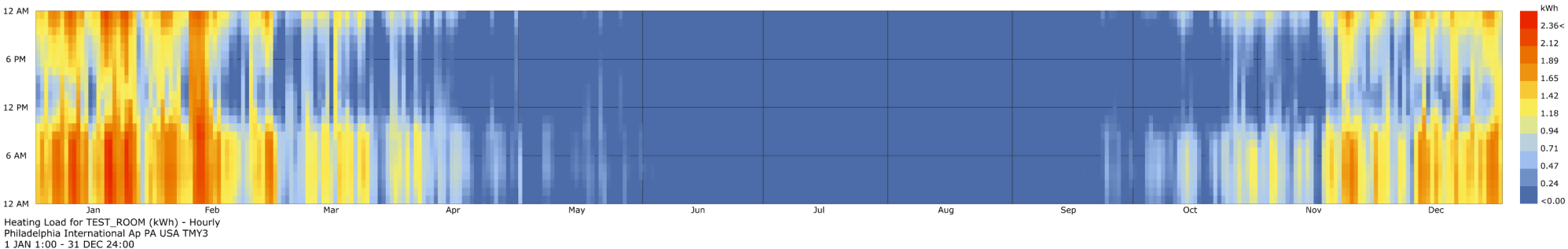
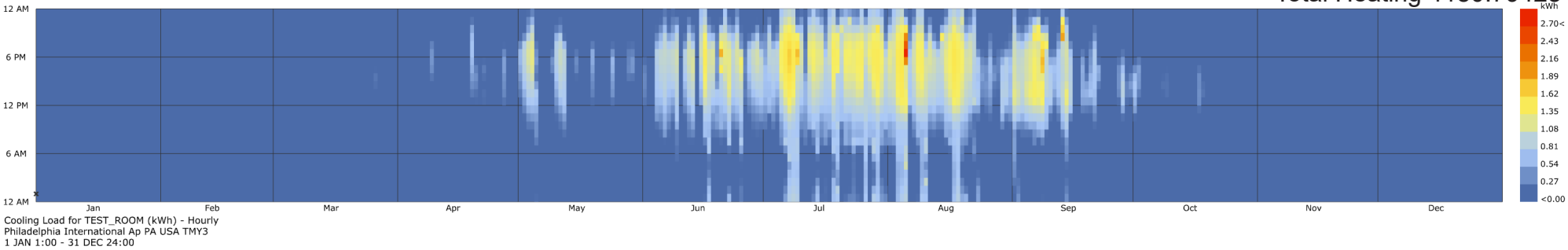
Independant no shading(kWh) Total Cooling 1258.763108

Total Heating 3709.117219



Independant with shading(kWh) Total Cooling 1055.159148

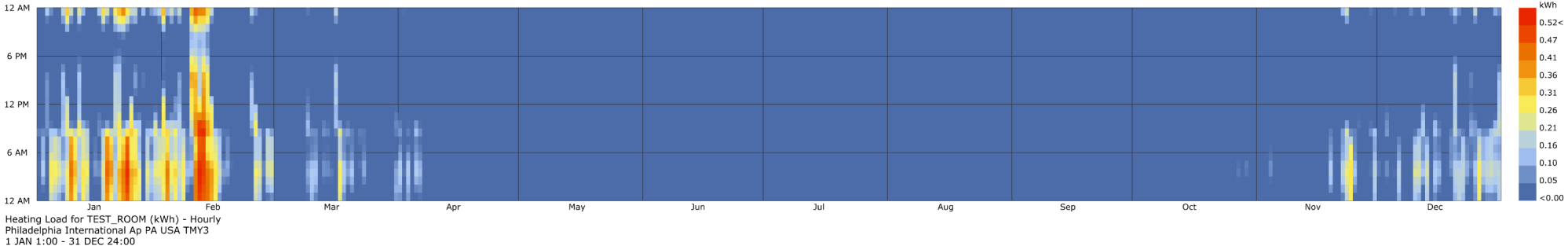
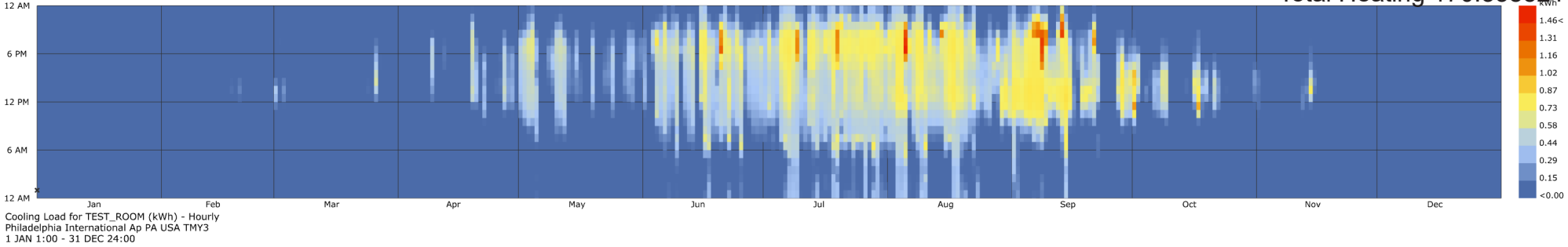
Total Heating 4180.794284



Zone Energy Use

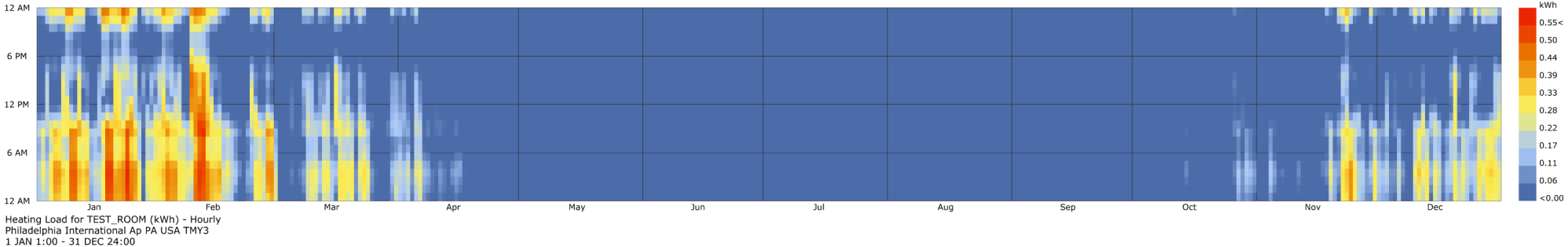
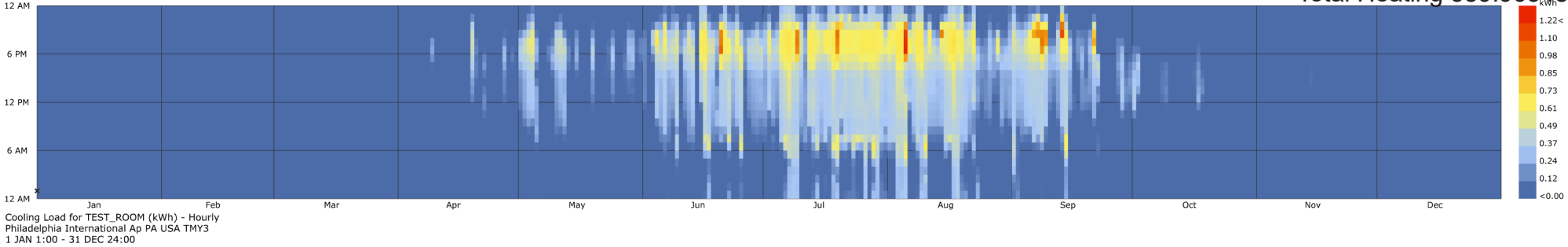
Adiabatic no shading(kWh) Total Cooling 973.261514

Total Heating 170.338521

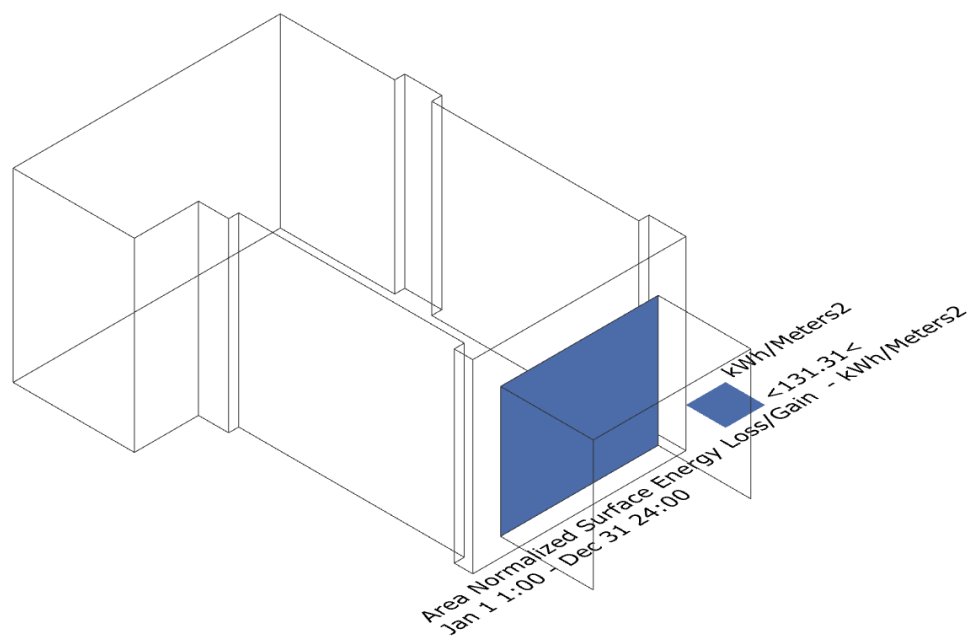


Adiabatic with shading(kWh) Total Cooling 637.846273

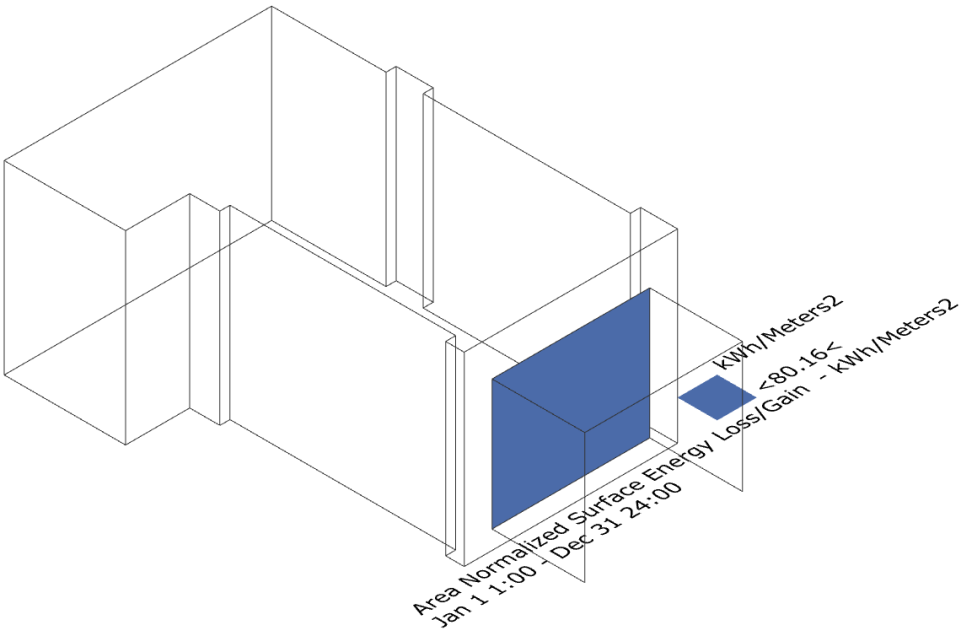
Total Heating 389.963485



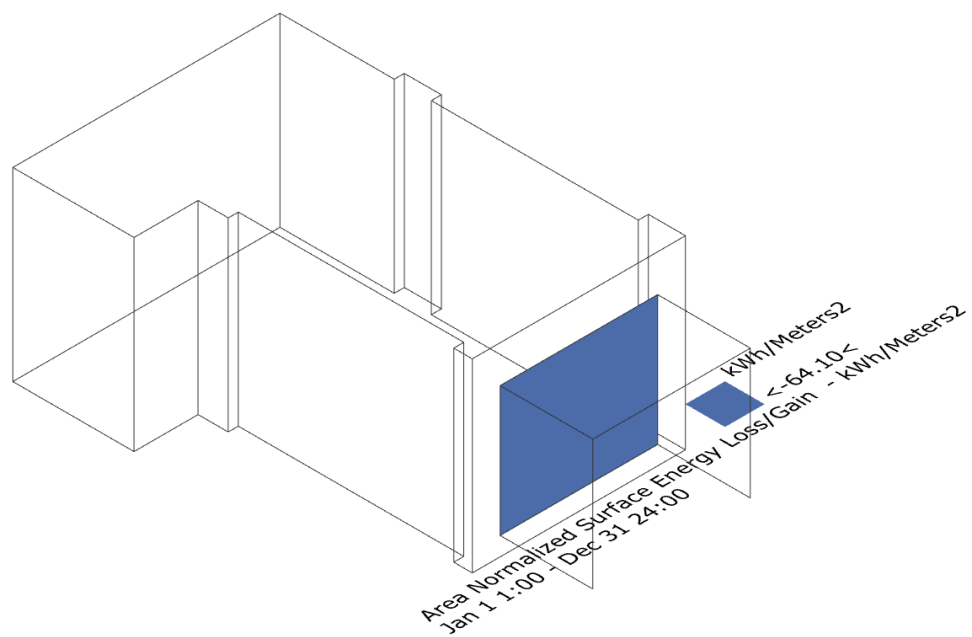
Surface Energy Analysis



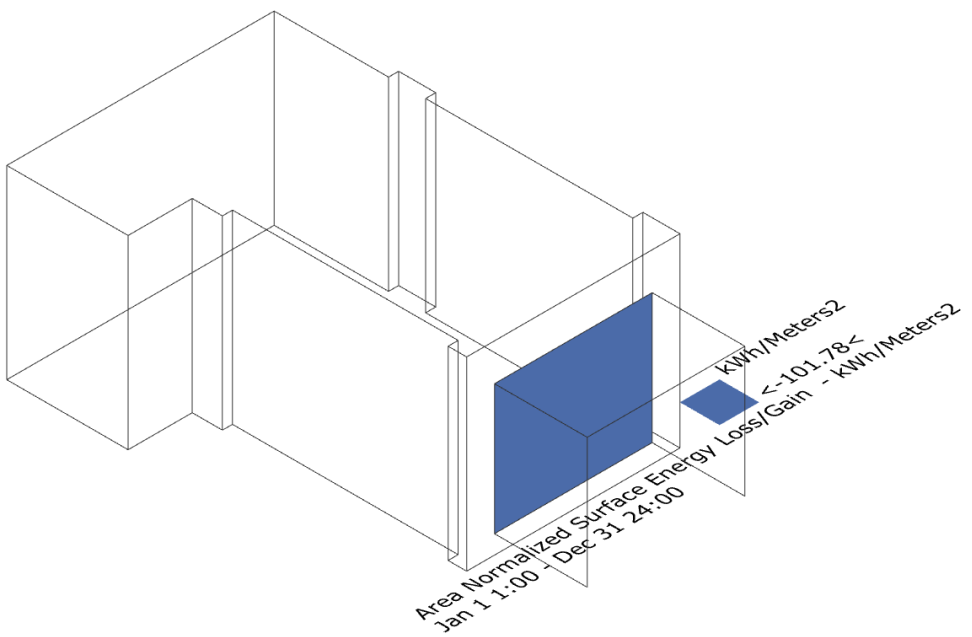
Independant no shading(kWh)



Adiabatic no shading(kWh)



Independant with shading(kWh)



Adiabatic with shading(kWh)