



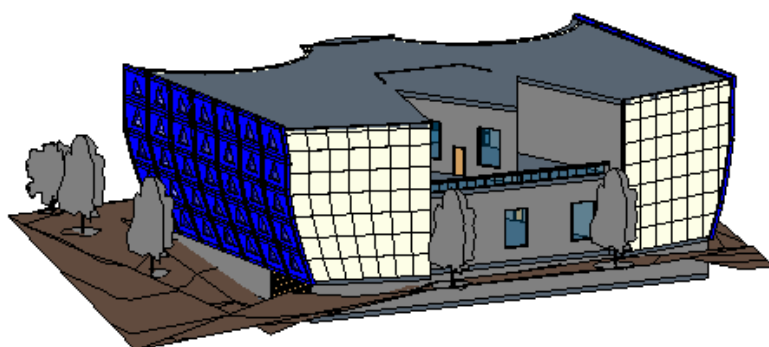
THE LAST PROJECT

THE LAST PROJECT Analysis

Analyzed at 12/26/2015 11:14:13 PM

Energy Analysis Result

496004



Building Performance Factors

Location:	40.254077911377,28.9432563781738
Weather Station:	187487
Outdoor Temperature:	Max: 36°C/Min: -8°C
Floor Area:	862 m ²
Exterior Wall Area:	217 m ²
Average Lighting Power:	9.69 W / m ²
People:	34 people
Exterior Window Ratio:	0.56
Electrical Cost:	\$0.14 / kWh
Fuel Cost:	\$1.44 / Therm

Energy Use Intensity

Electricity EUI:	123 kWh / sm / yr
Fuel EUI:	477 MJ / sm / yr
Total EUI:	920 MJ / sm / yr

Life Cycle Energy Use/Cost

Life Cycle Electricity Use:	3,171,687 kWh
Life Cycle Fuel Use:	12,295,680 MJ
Life Cycle Energy Cost:	\$276,537

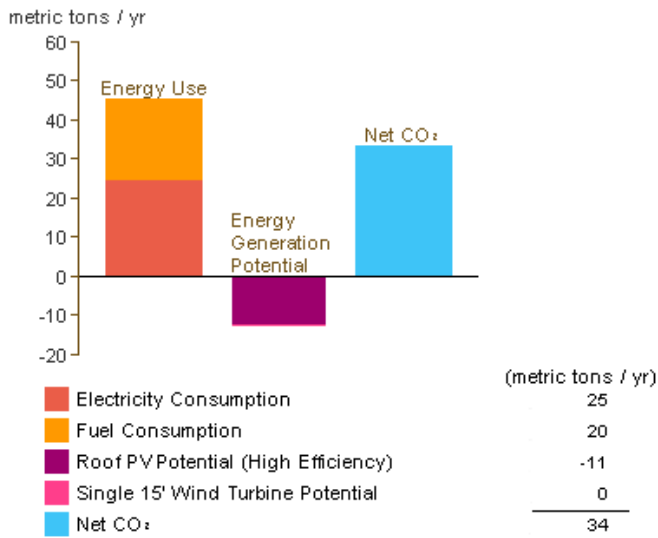
*30-year life and 6.1% discount rate for costs

Renewable Energy Potential

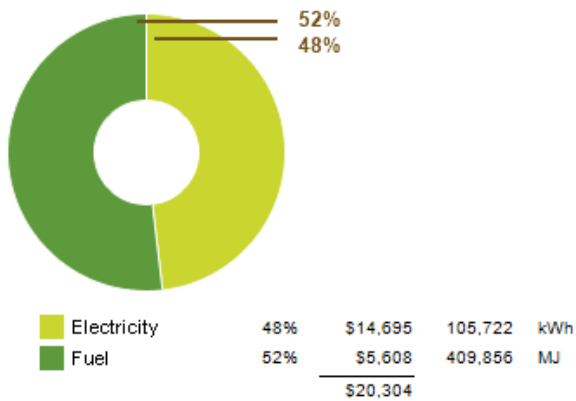
Roof Mounted PV System (Low efficiency):	16,819 kWh / yr
Roof Mounted PV System (Medium efficiency):	33,639 kWh / yr
Roof Mounted PV System (High efficiency):	50,458 kWh / yr
Single 15' Wind Turbine Potential:	1,305 kWh / yr

*PV efficiencies are assumed to be 5%, 10% and 15% for low, medium and high efficiency systems

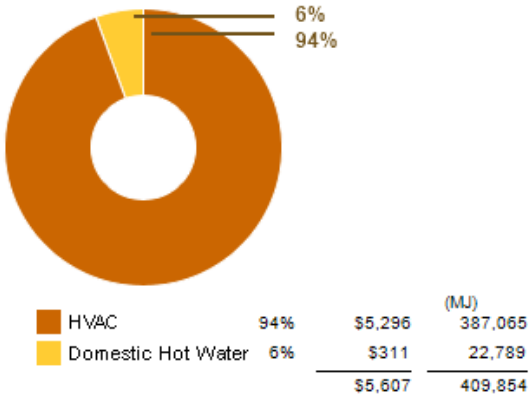
Annual Carbon Emissions



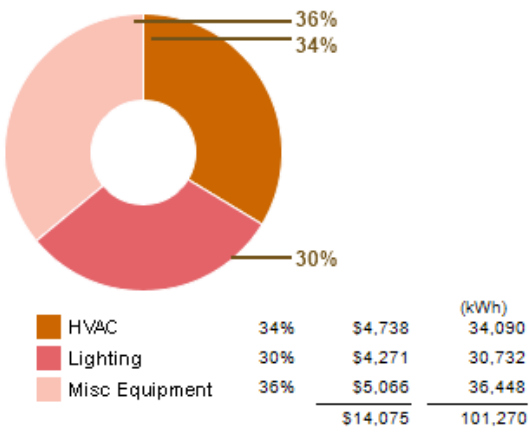
Annual Energy Use/Cost



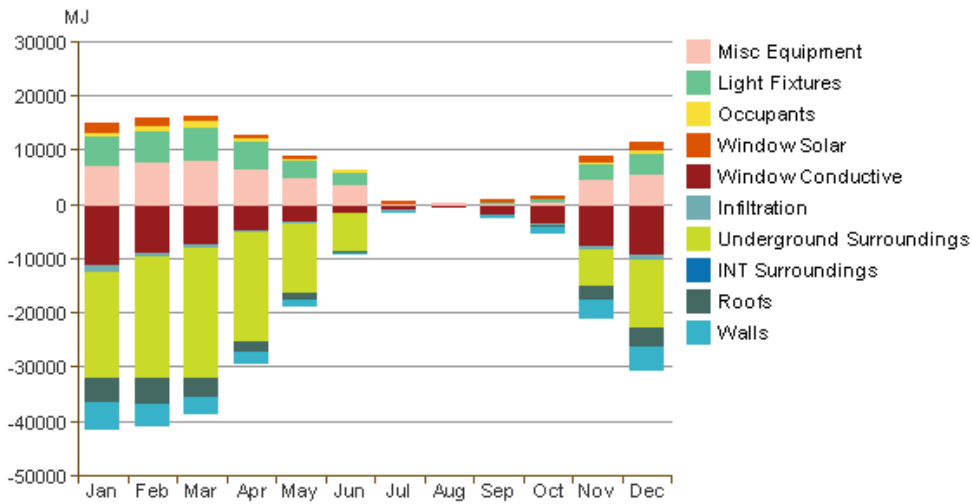
Energy Use: Fuel



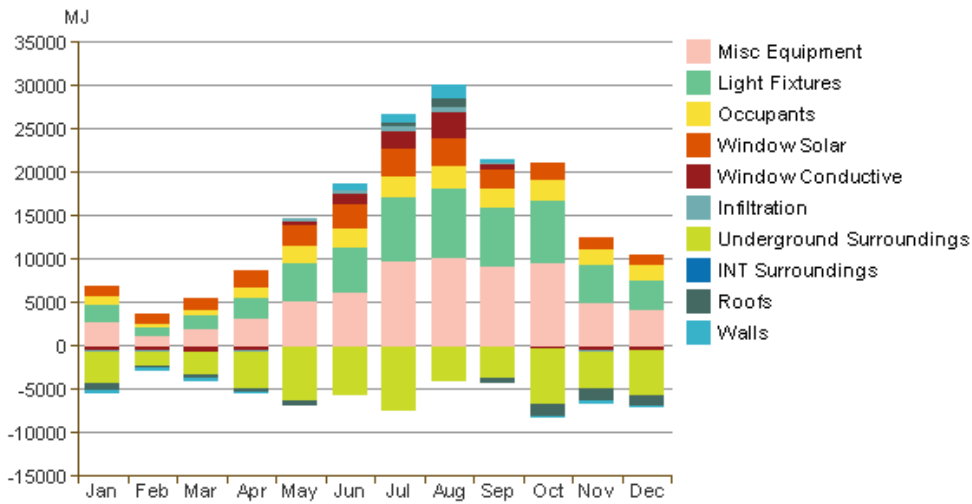
Energy Use: Electricity



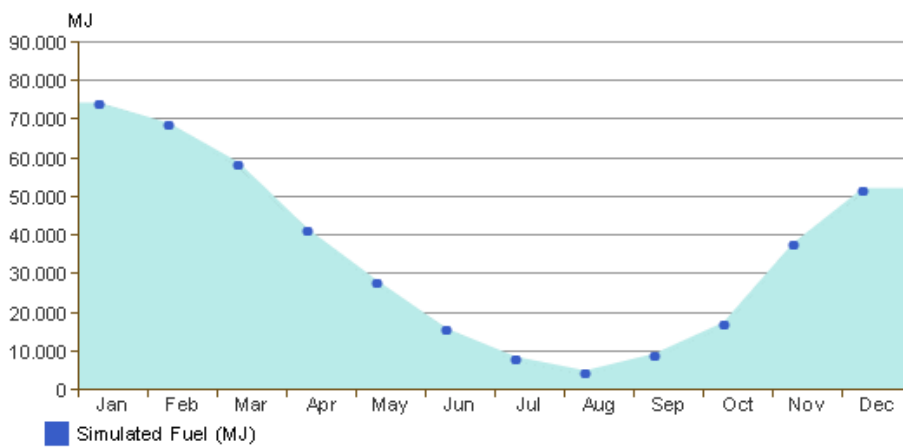
Monthly Heating Load



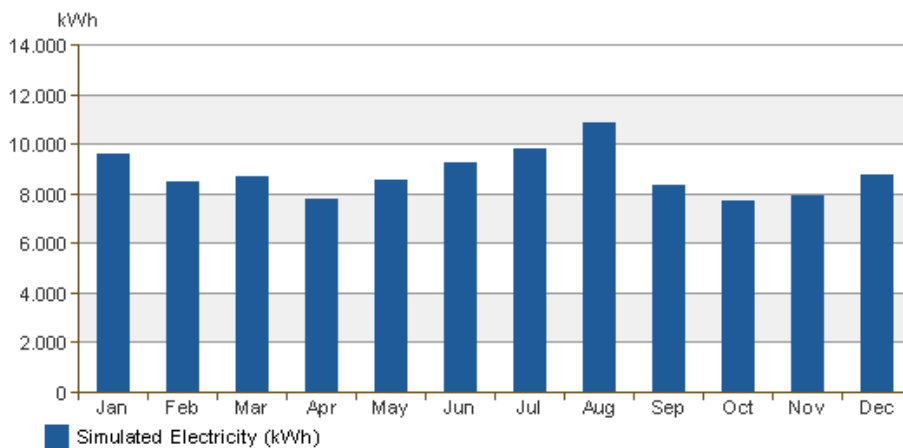
Monthly Cooling Load



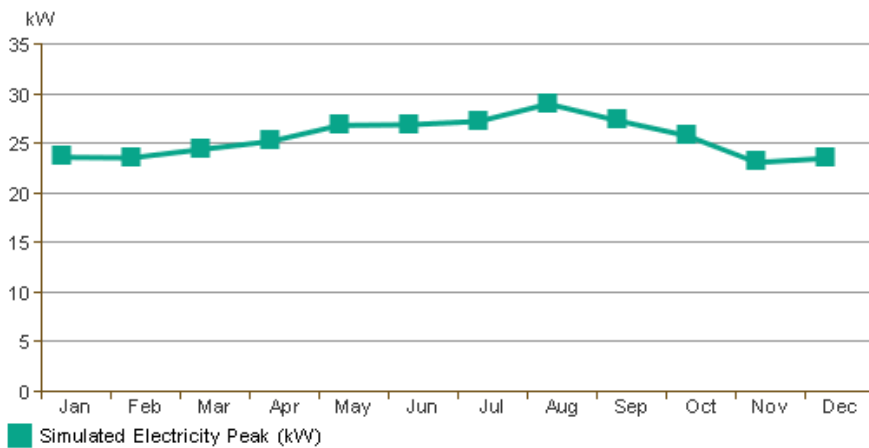
Monthly Fuel Consumption



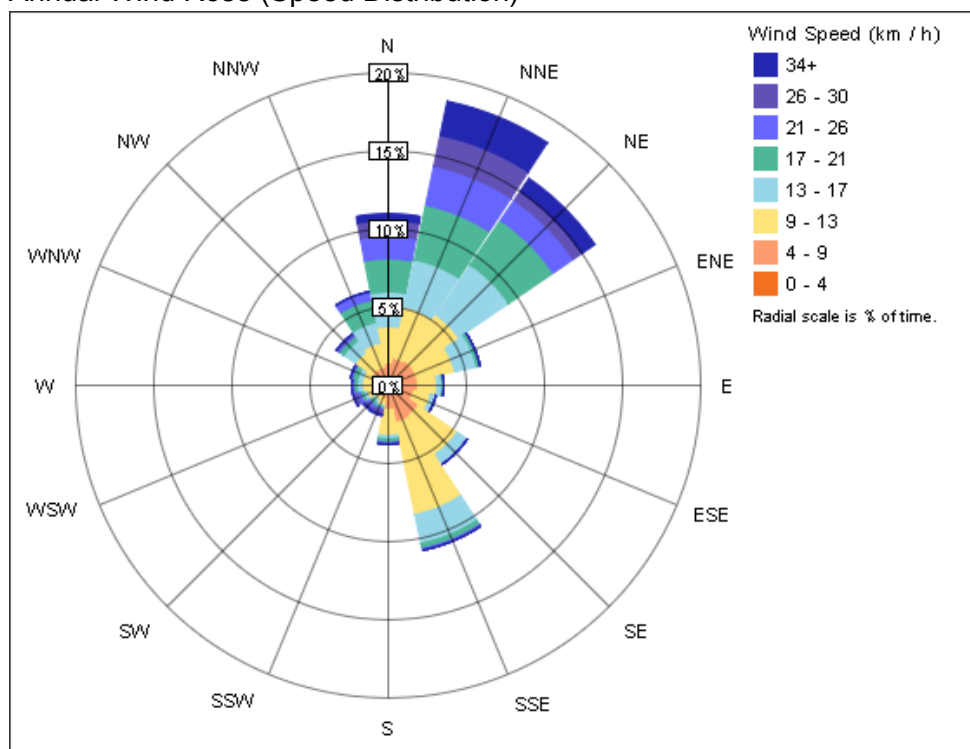
Monthly Electricity Consumption



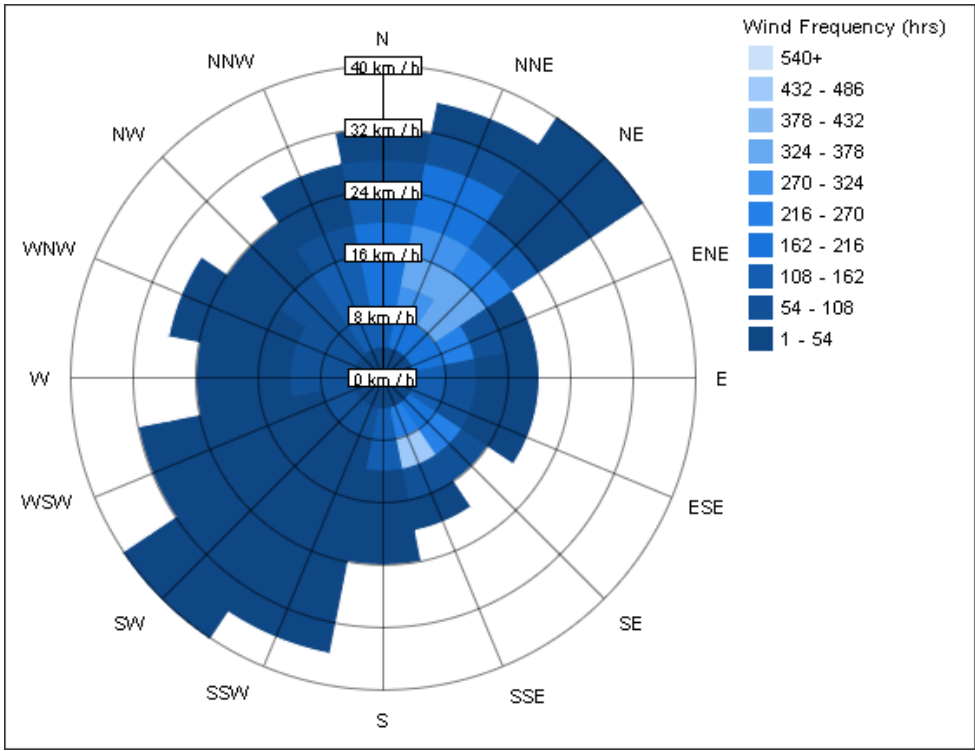
Monthly Peak Demand



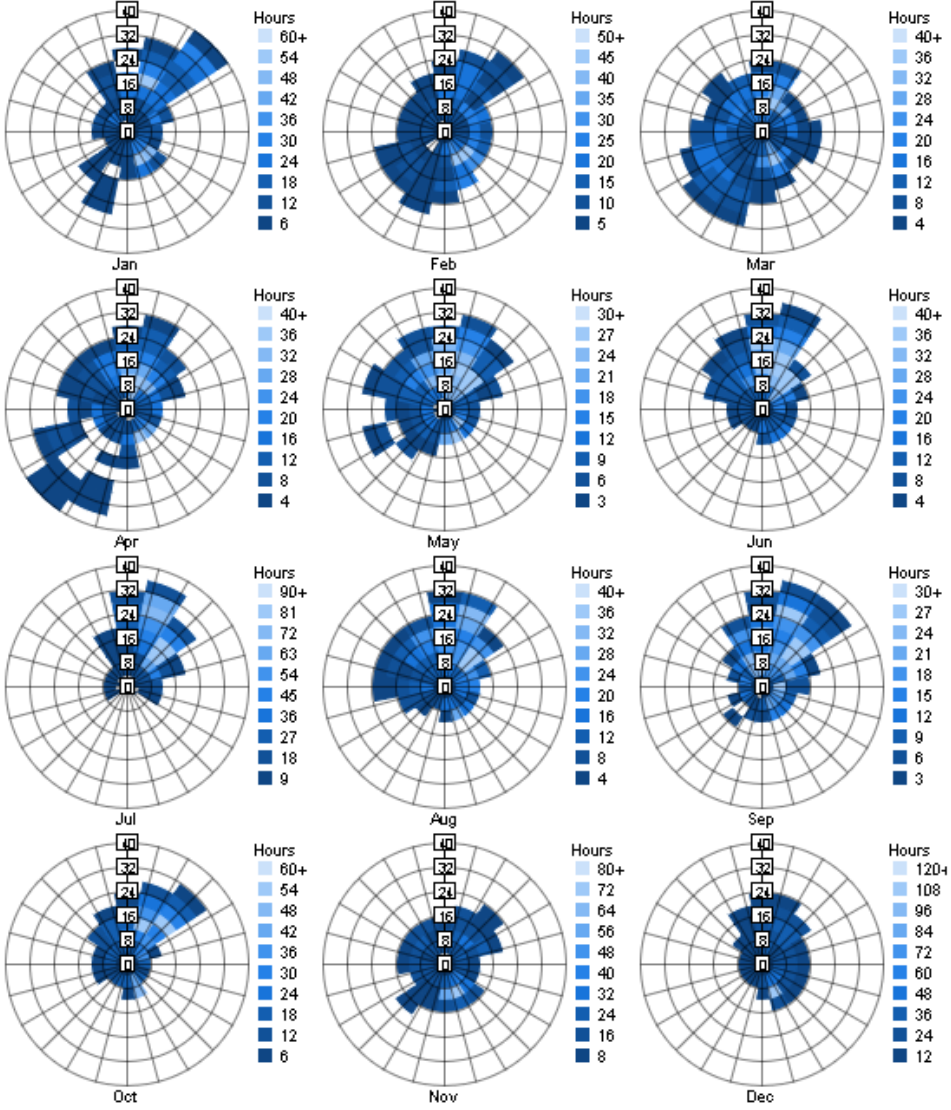
Annual Wind Rose (Speed Distribution)



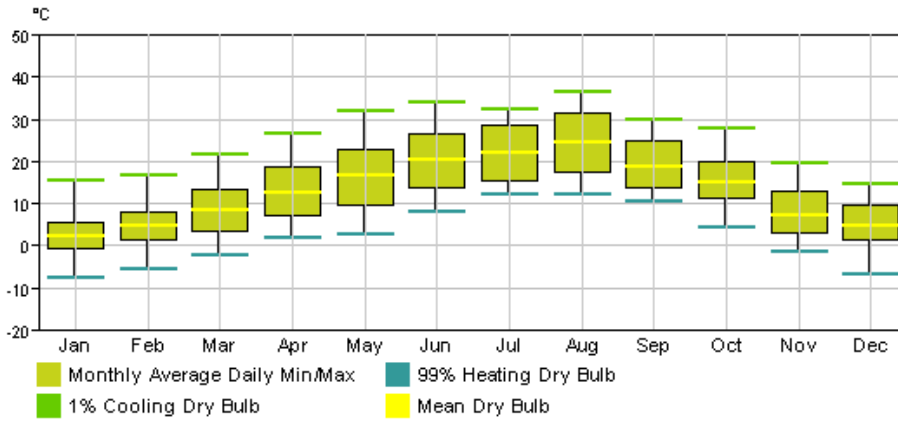
Annual Wind Rose (Frequency Distribution)



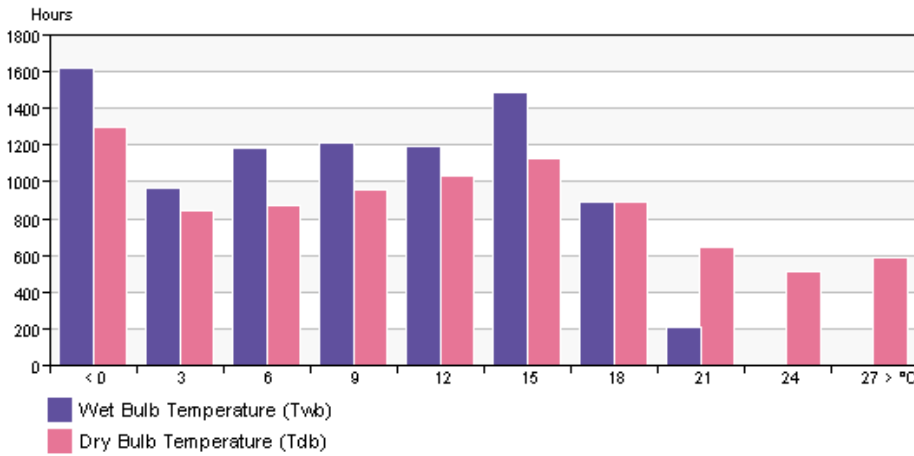
Monthly Wind Roses



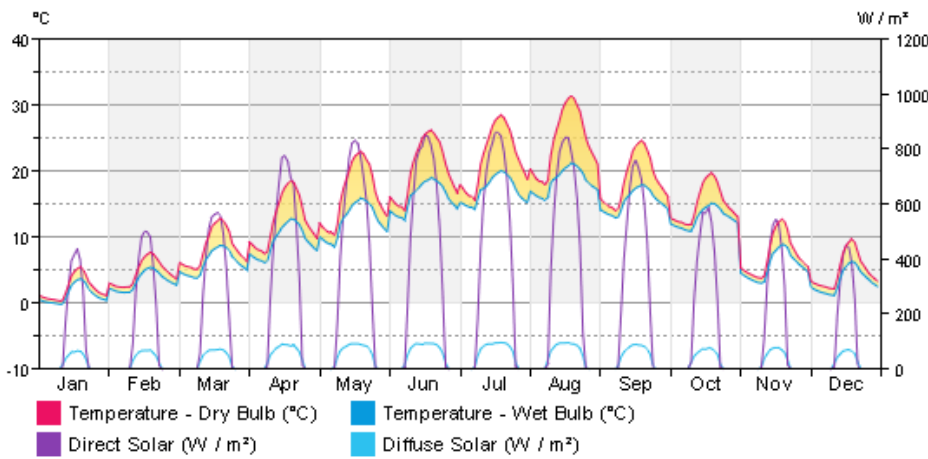
Monthly Design Data



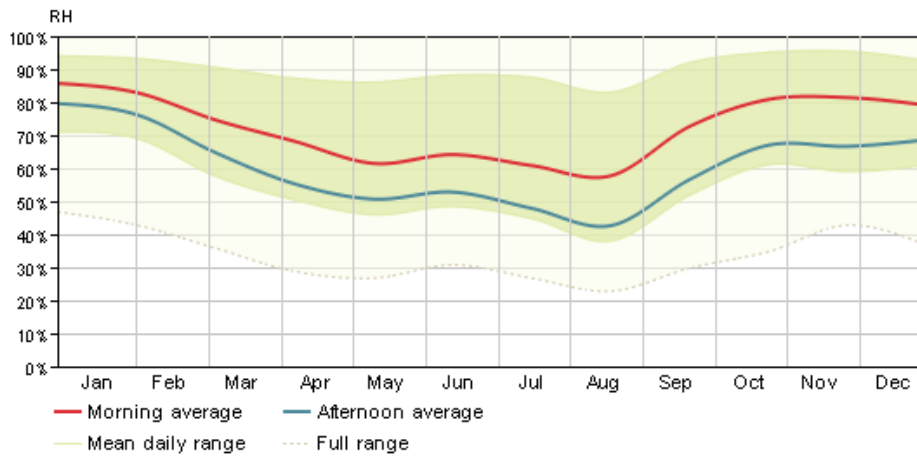
Annual Temperature Bins



Diurnal Weather Averages



Humidity



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Energy Analysis Data