



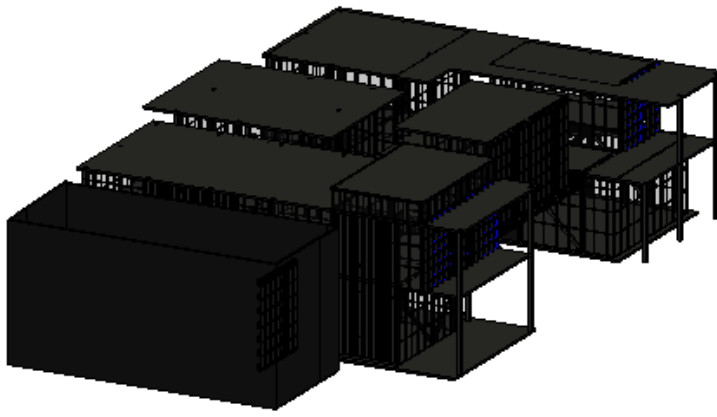
Yarışma Proje Analiz

Yarışma Proje Analiz Analysis

Analyzed at 12/26/2015 2:39:39 PM

Energy Analysis Result

991468



Building Performance Factors

Location:	Ankara, Turkey
Weather Station:	188208
Outdoor Temperature:	Max: 36°C/Min: -9°C
Floor Area:	1,501 m ²
Exterior Wall Area:	142 m ²
Average Lighting Power:	12.92 W / m ²
People:	54 people
Exterior Window Ratio:	22.49
Electrical Cost:	\$0.14 / kWh
Fuel Cost:	\$1.44 / Therm

Energy Use Intensity

Electricity EUI:	231 kWh / sm / yr
Fuel EUI:	2,171 MJ / sm / yr
Total EUI:	3,004 MJ / sm / yr

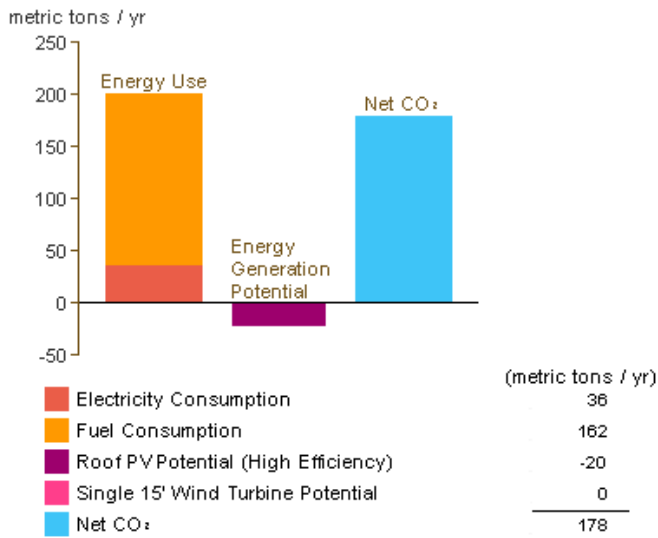
Life Cycle Energy Use/Cost

Life Cycle Electricity Use:	10,412,946 kWh
Life Cycle Fuel Use:	97,766,494 MJ
Life Cycle Energy Cost:	\$1,264,477
<i>*30-year life and 6.1% discount rate for costs</i>	

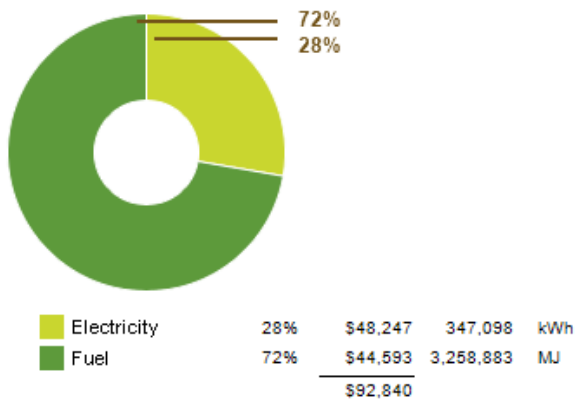
Renewable Energy Potential

Roof Mounted PV System (Low efficiency):	65,340 kWh / yr
Roof Mounted PV System (Medium efficiency):	130,679 kWh / yr
Roof Mounted PV System (High efficiency):	196,019 kWh / yr
Single 15' Wind Turbine Potential:	943 kWh / yr
<i>*PV efficiencies are assumed to be 5%, 10% and 15% for low, medium and high efficiency systems</i>	

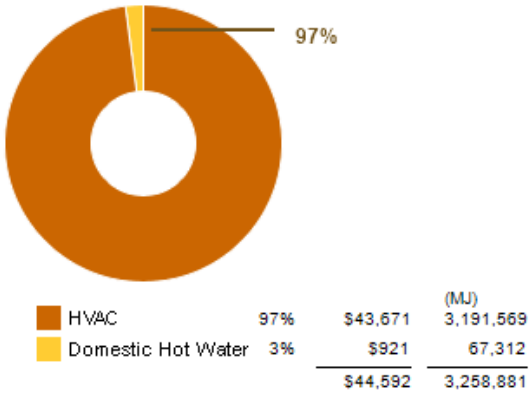
Annual Carbon Emissions



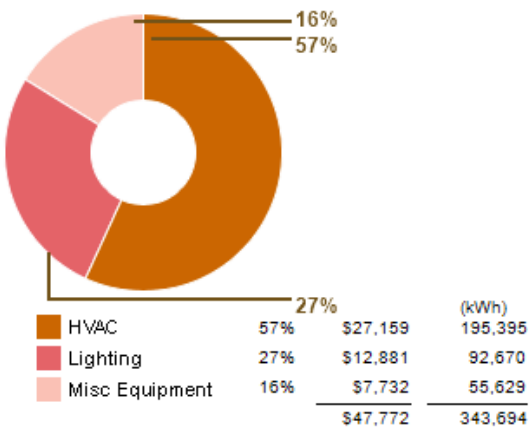
Annual Energy Use/Cost



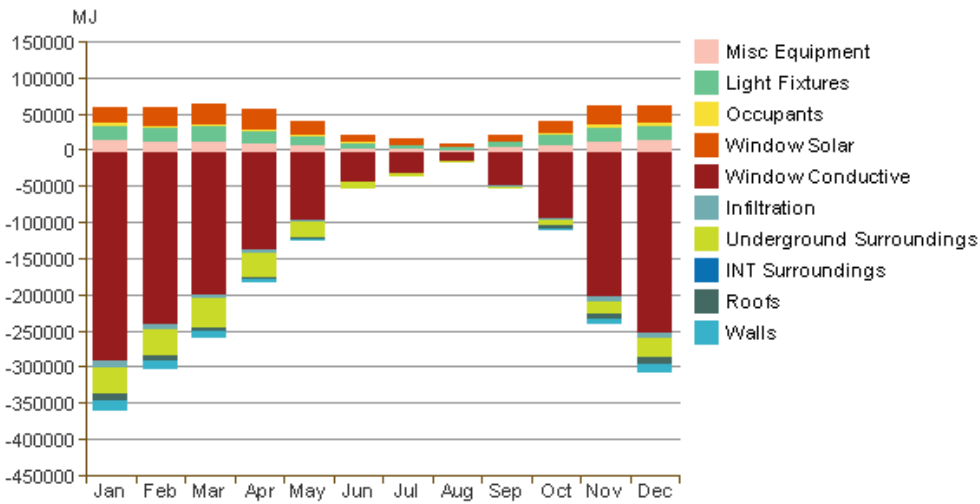
Energy Use: Fuel



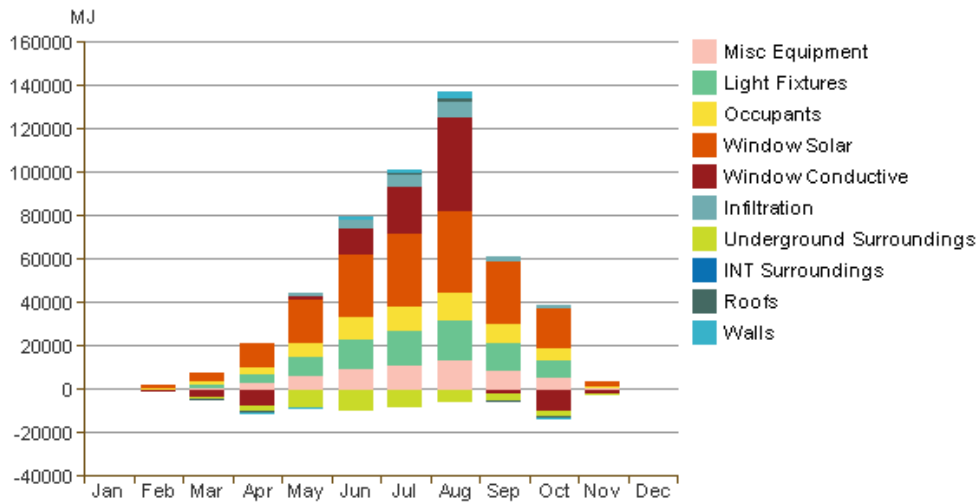
Energy Use: Electricity



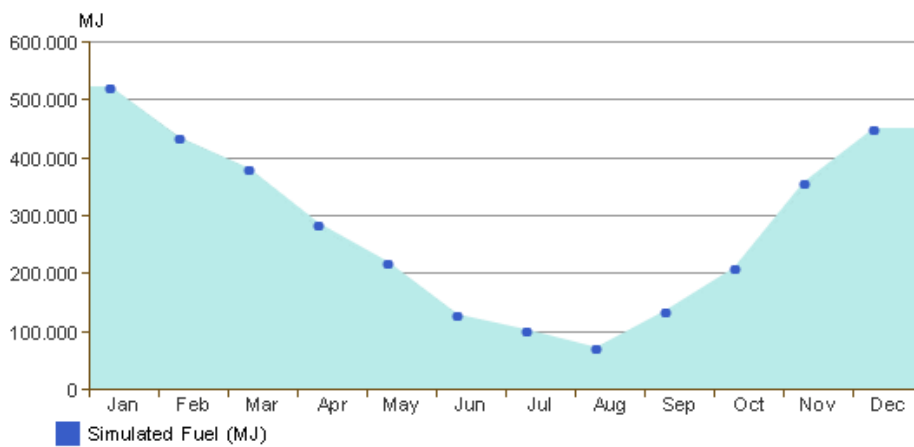
Monthly Heating Load



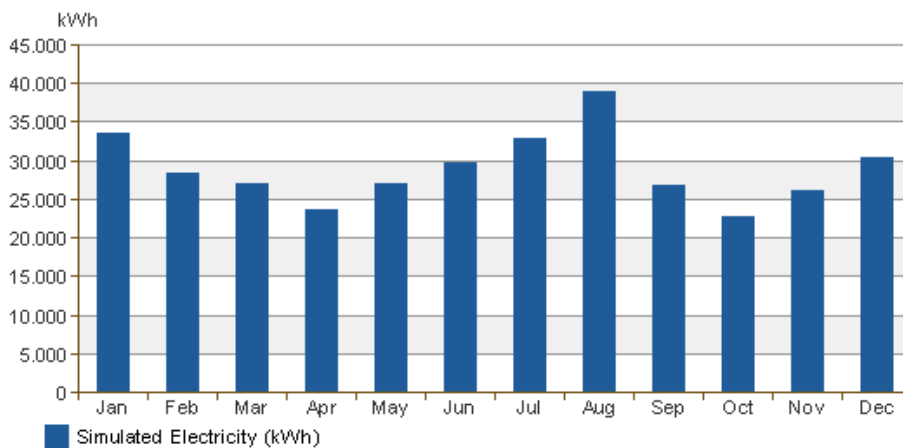
Monthly Cooling Load



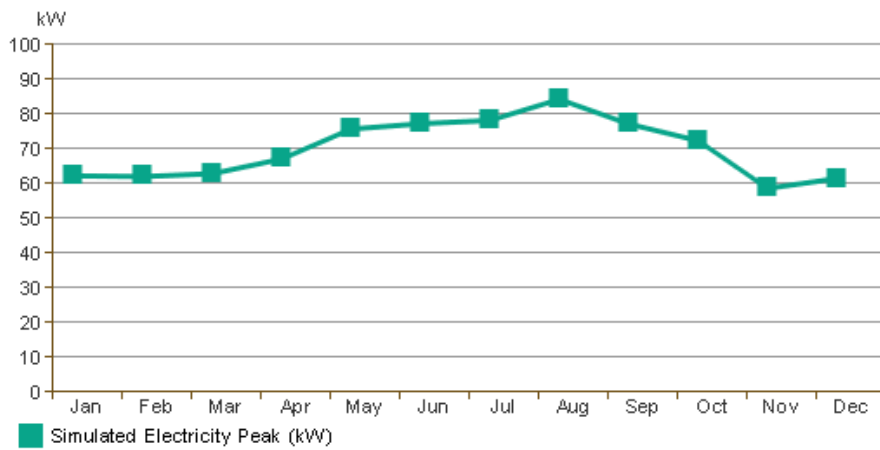
Monthly Fuel Consumption



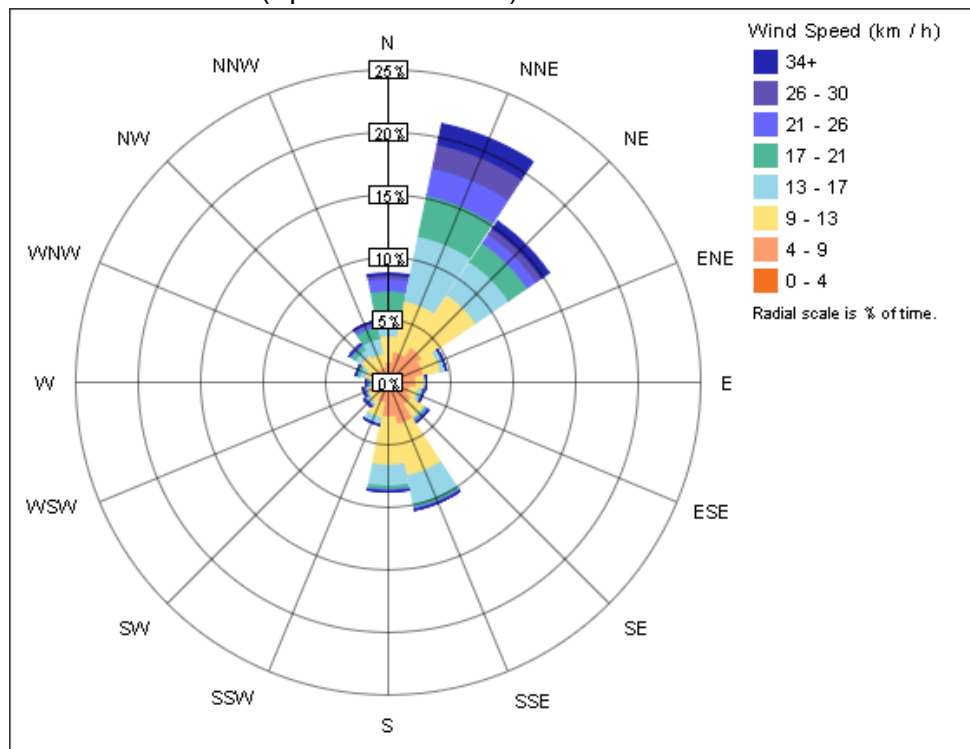
Monthly Electricity Consumption



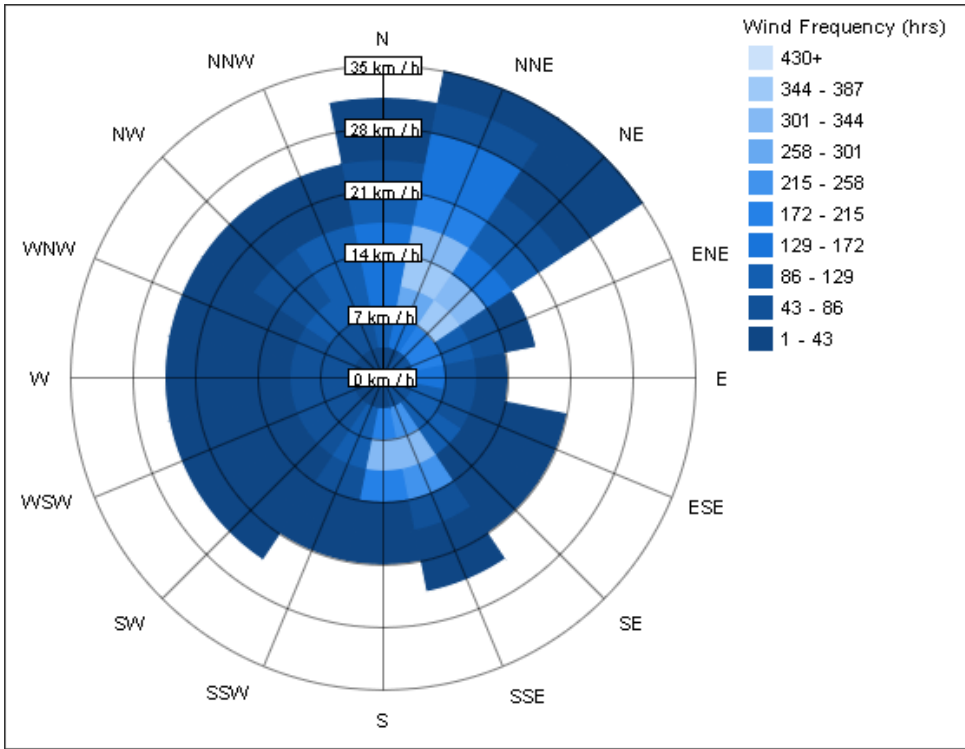
Monthly Peak Demand



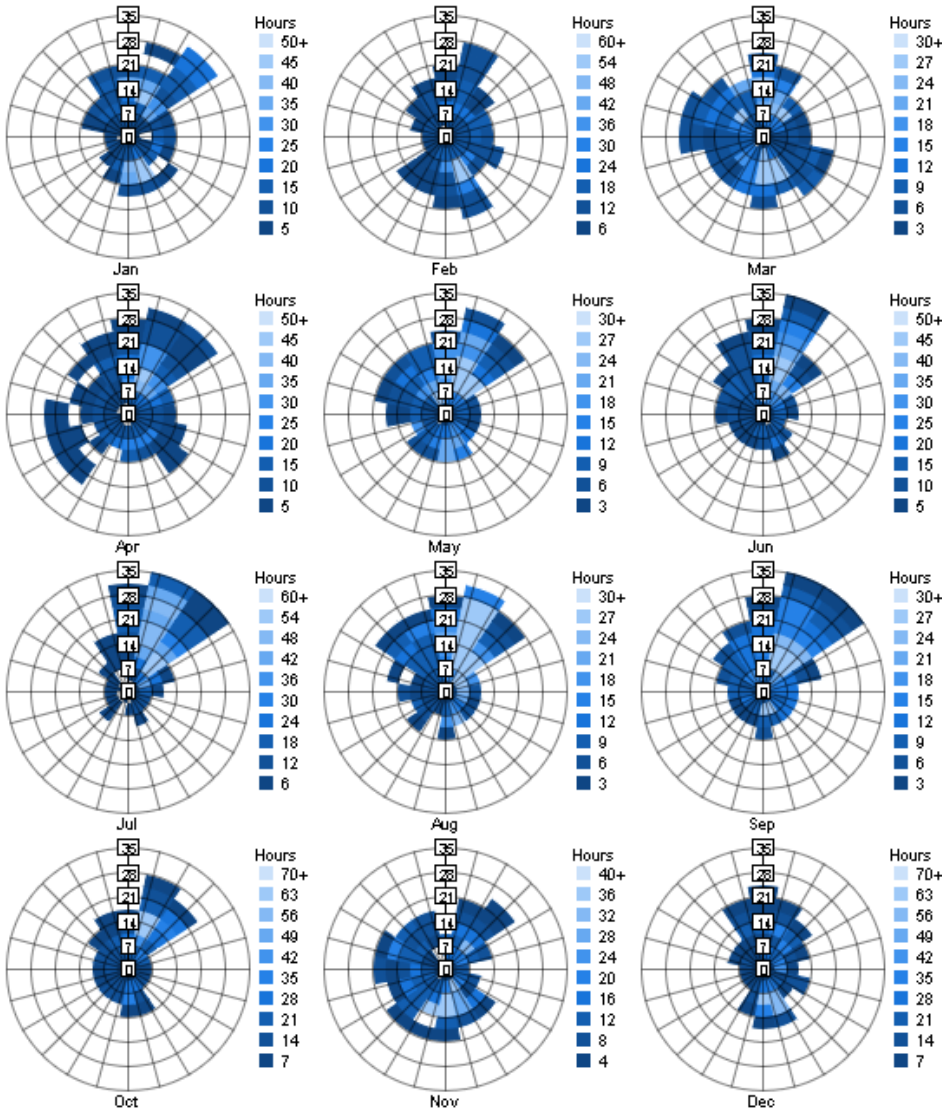
Annual Wind Rose (Speed Distribution)



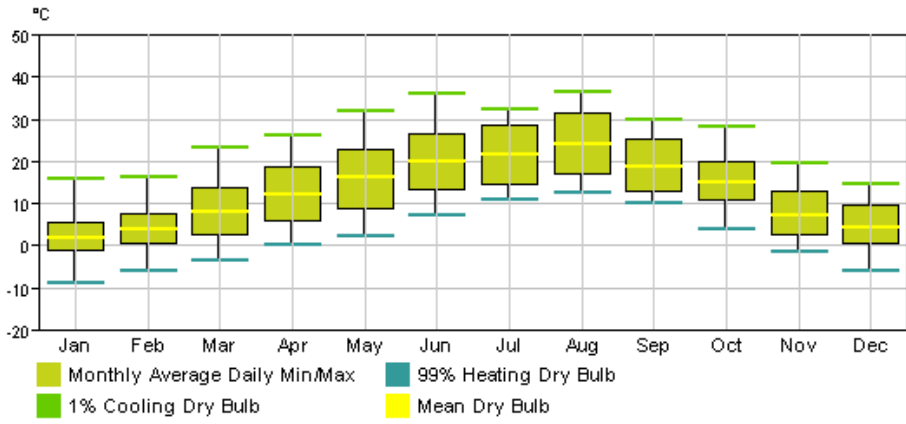
Annual Wind Rose (Frequency Distribution)



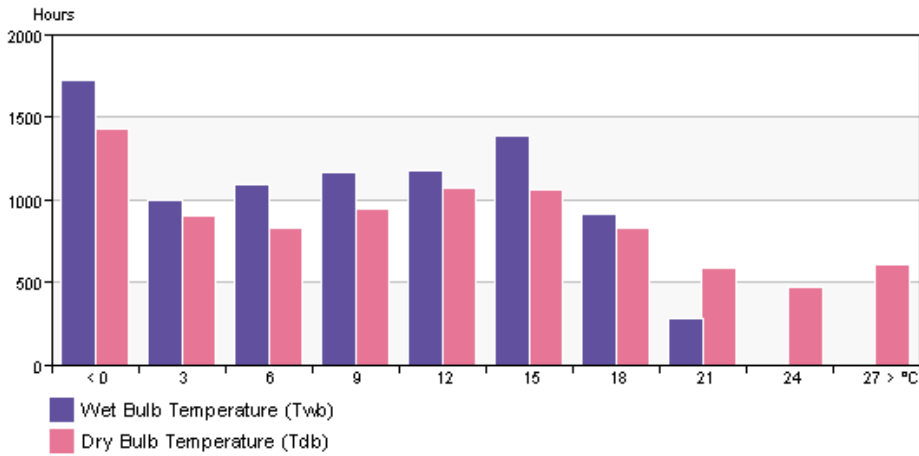
Monthly Wind Roses



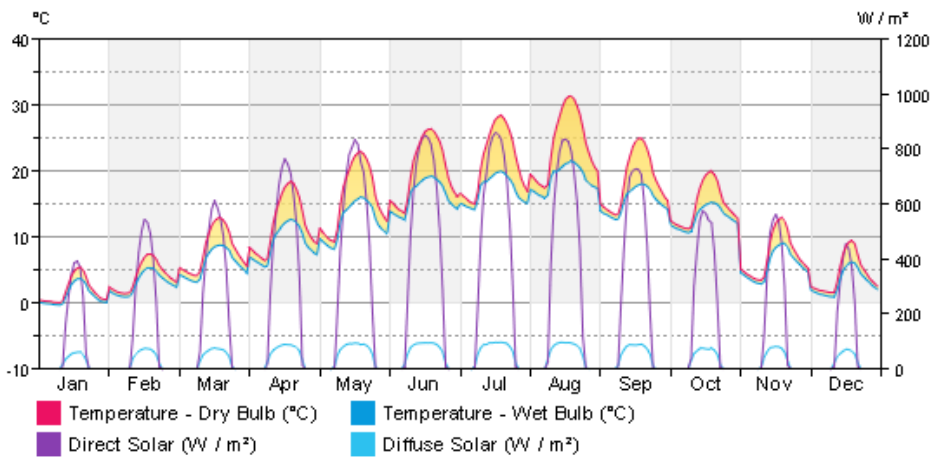
Monthly Design Data



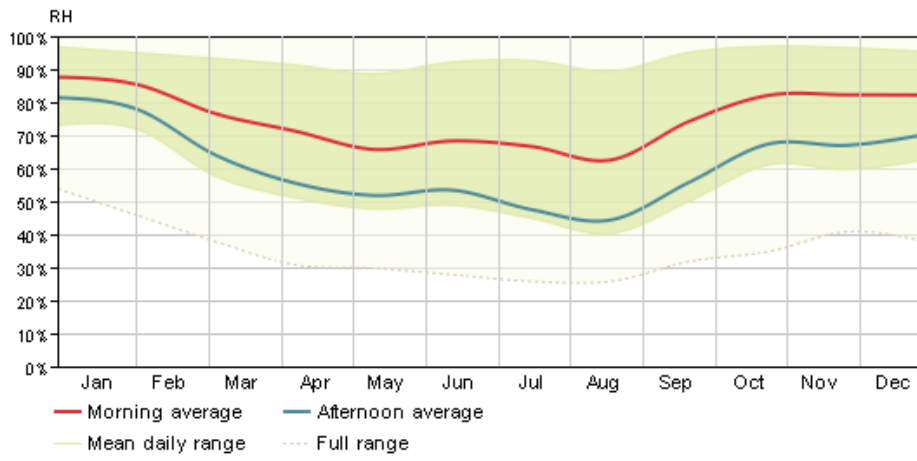
Annual Temperature Bins



Diurnal Weather Averages



Humidity



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Energy Analysis Data