



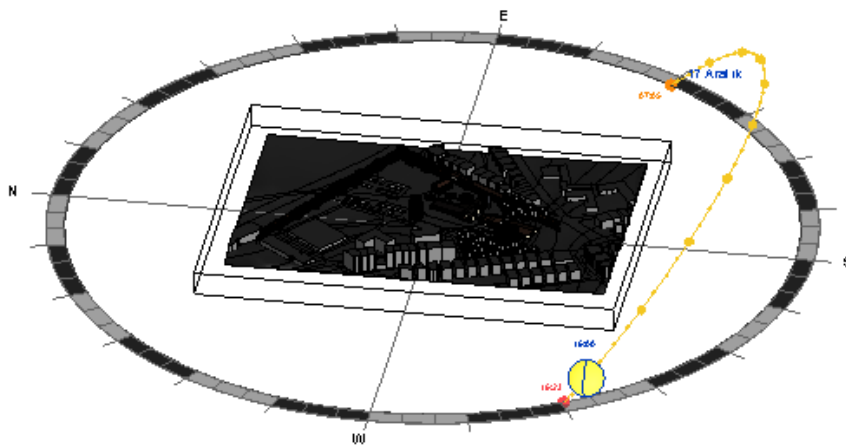
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revit_kopya Analysis

Analyzed at 12/17/2015 4:25:23 PM

Energy Analysis Result

668838



Building Performance Factors

Location:	Ankara, Turkey
Weather Station:	1252135
Outdoor Temperature:	Max: 38°C/Min: -17°C
Floor Area:	9,182 m ²
Exterior Wall Area:	3,835 m ²
Average Lighting Power:	9.69 W / m ²
People:	367 people
Exterior Window Ratio:	0.17
Electrical Cost:	\$0.14 / kWh
Fuel Cost:	\$1.44 / Therm

Energy Use Intensity

Electricity EUI:	116 kWh / sm / yr
Fuel EUI:	394 MJ / sm / yr
Total EUI:	811 MJ / sm / yr

Life Cycle Energy Use/Cost

Life Cycle Electricity Use:	31,938,480 kWh
Life Cycle Fuel Use:	108,436,924 MJ
Life Cycle Energy Cost:	\$2,689,155

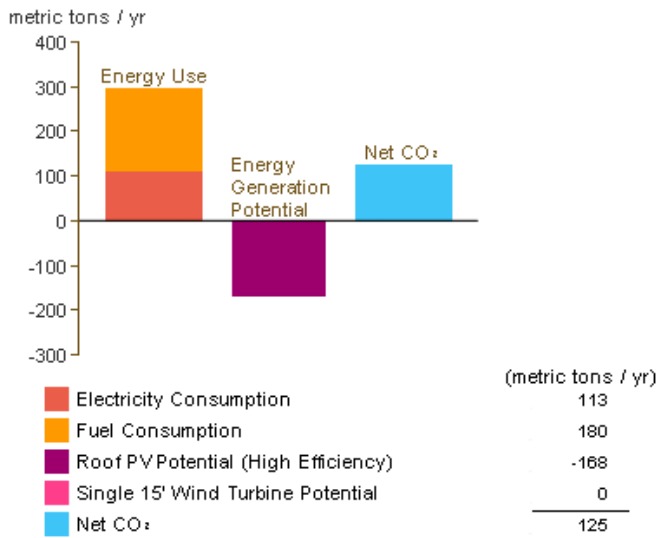
*30-year life and 6.1% discount rate for costs

Renewable Energy Potential

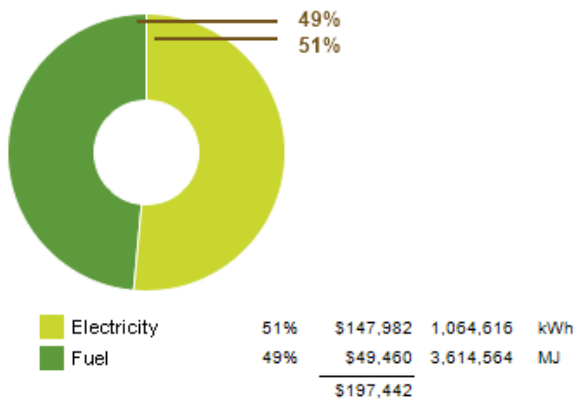
Roof Mounted System (Low efficiency):	527,701 kWh / yr
Roof Mounted PV System (Medium efficiency):	1,055,401 kWh / yr
Roof Mounted PV System (High efficiency):	1,583,102 kWh / yr
Single 15' Wind Turbine Potential:	777 kWh / yr

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

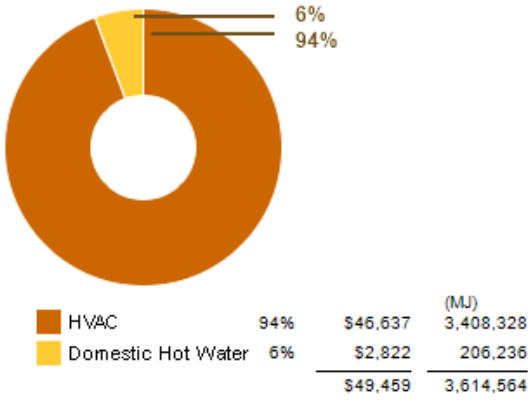
Annual Carbon Emissions



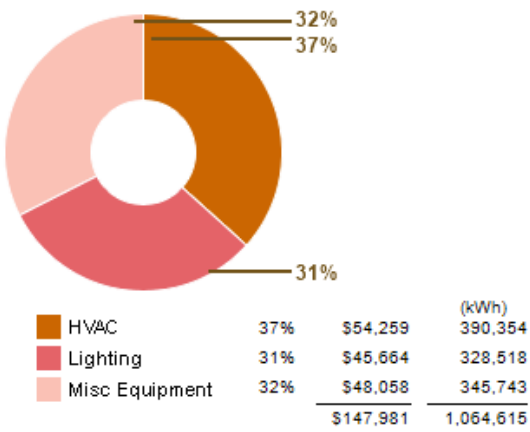
Annual Energy Use/Cost



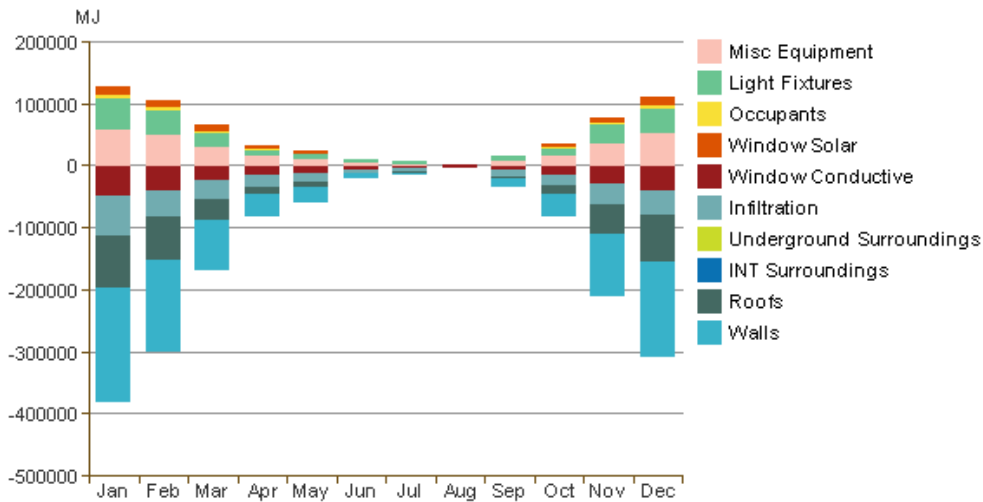
Energy Use: Fuel



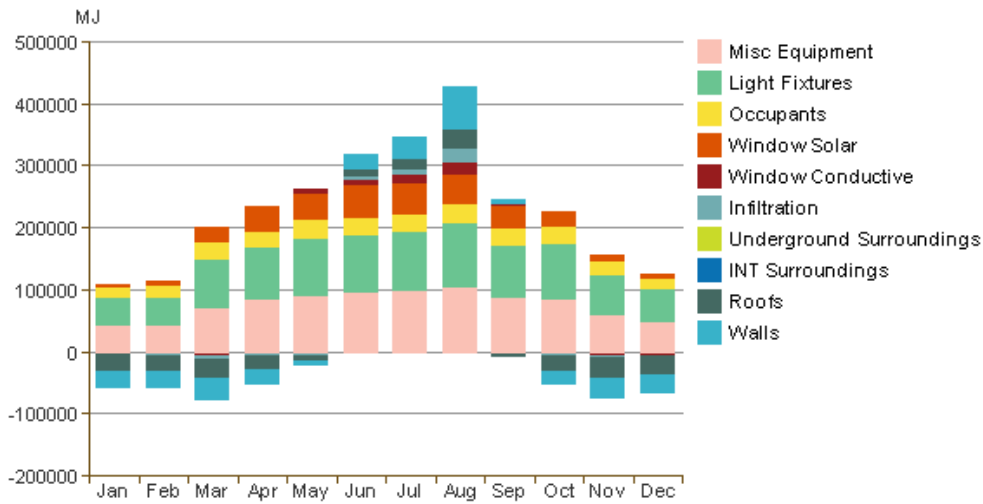
Energy Use: Electricity



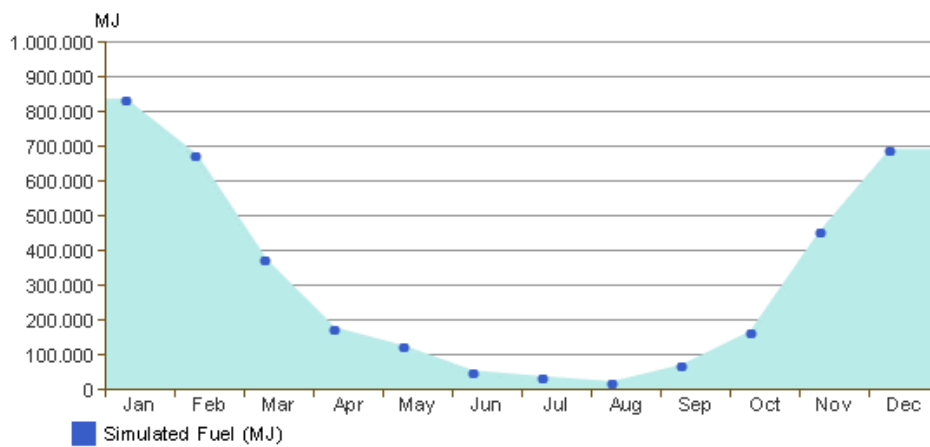
Monthly Heating Load



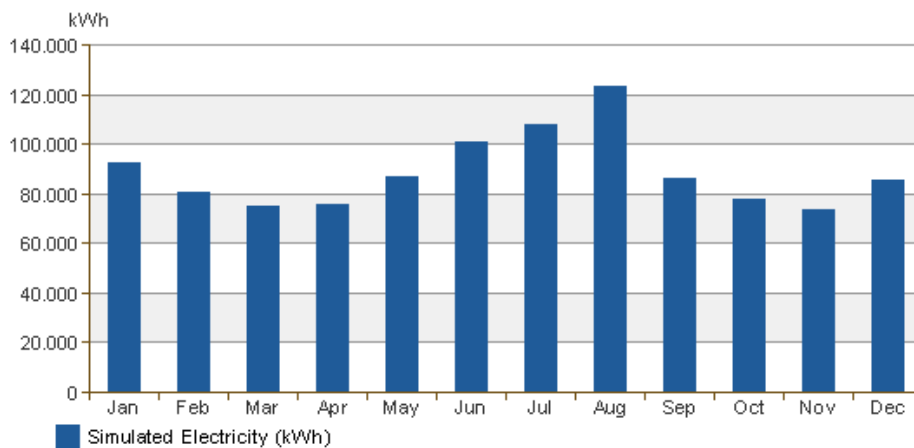
Monthly Cooling Load



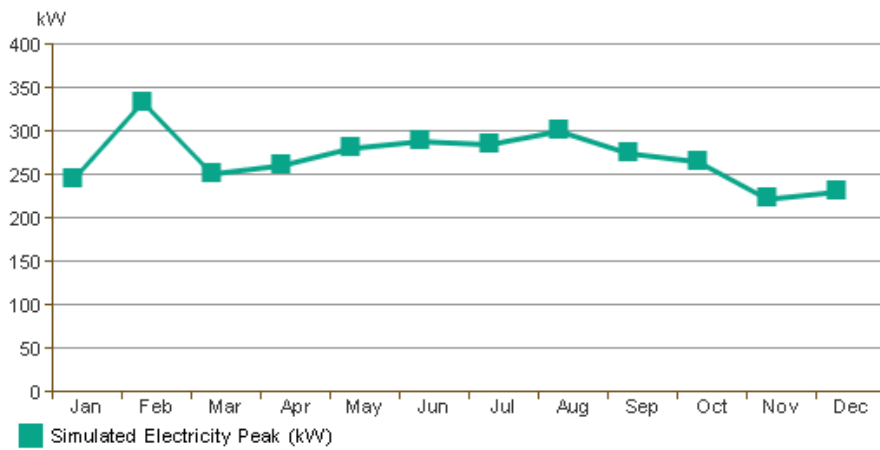
Monthly Fuel Consumption



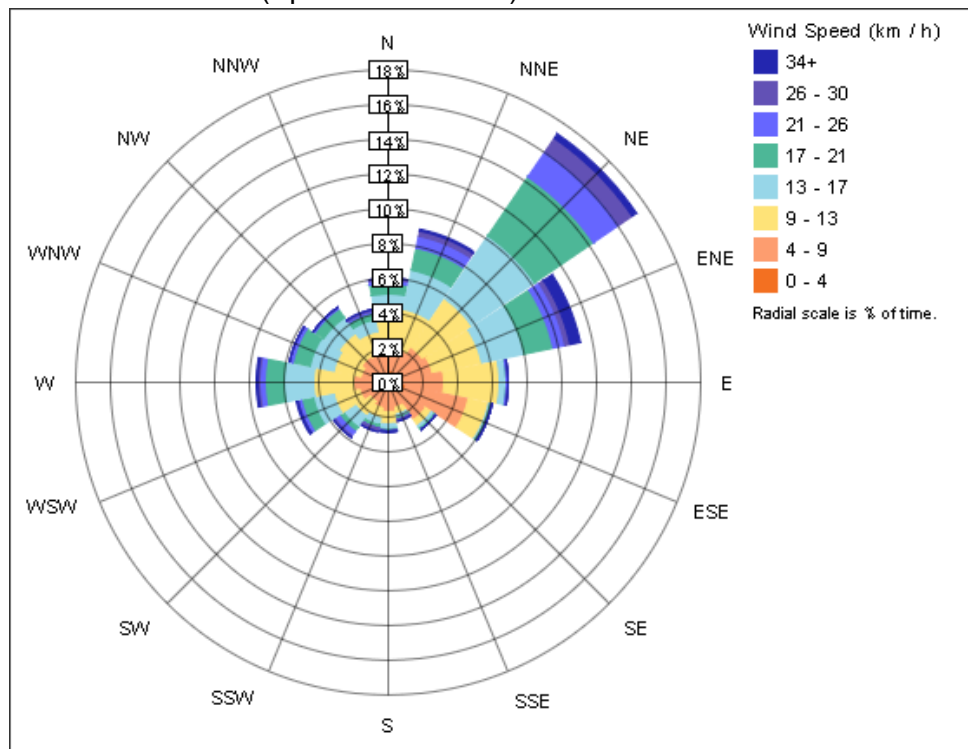
Monthly Electricity Consumption



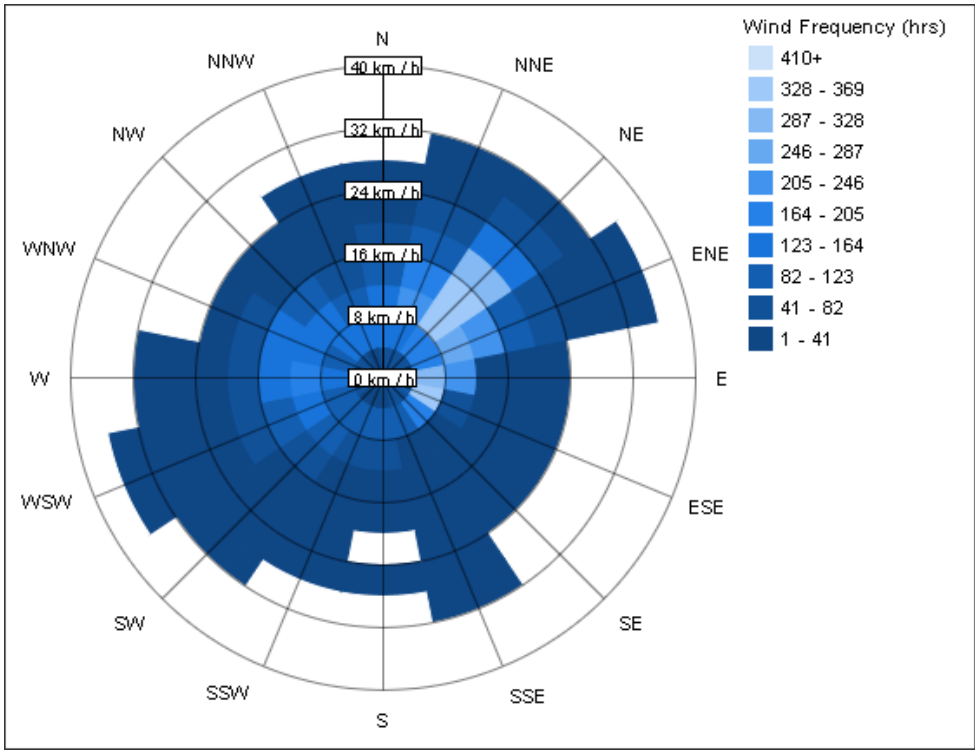
Monthly Peak Demand



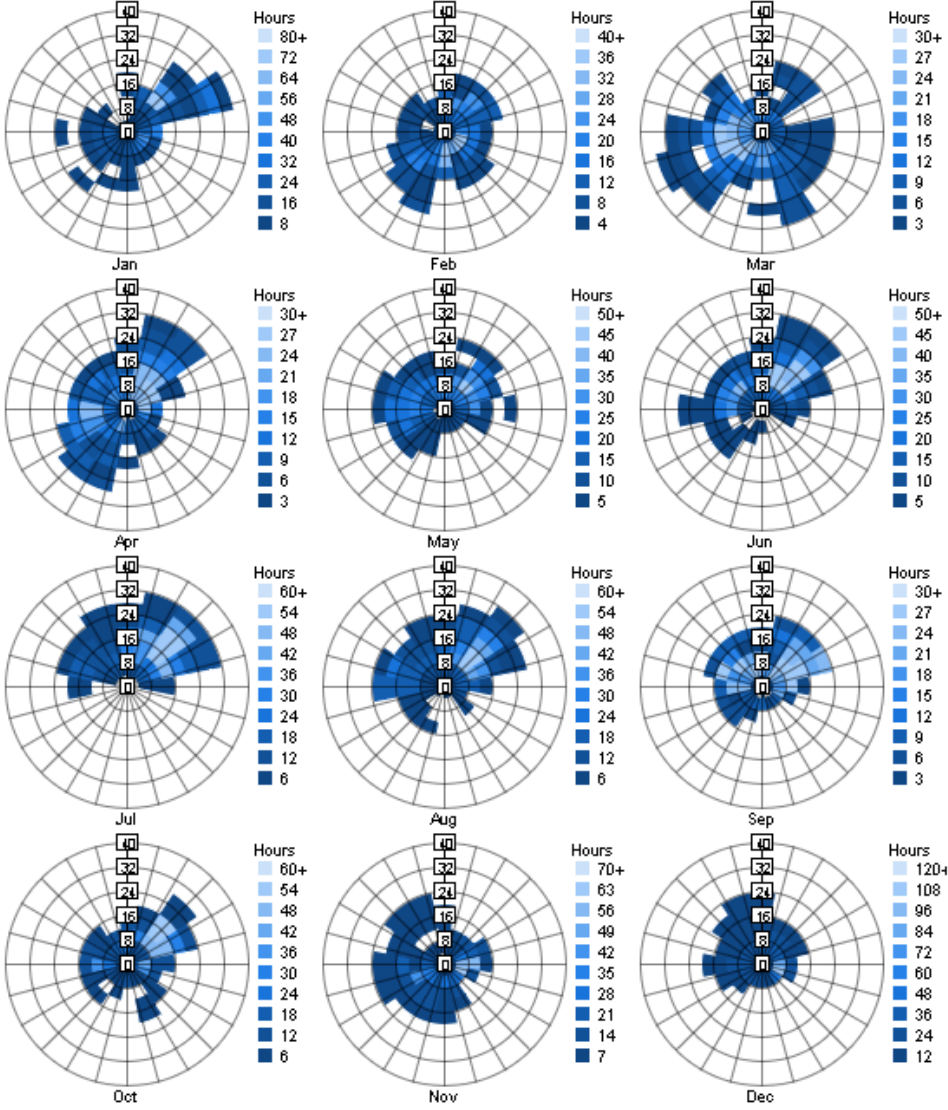
Annual Wind Rose (Speed Distribution)



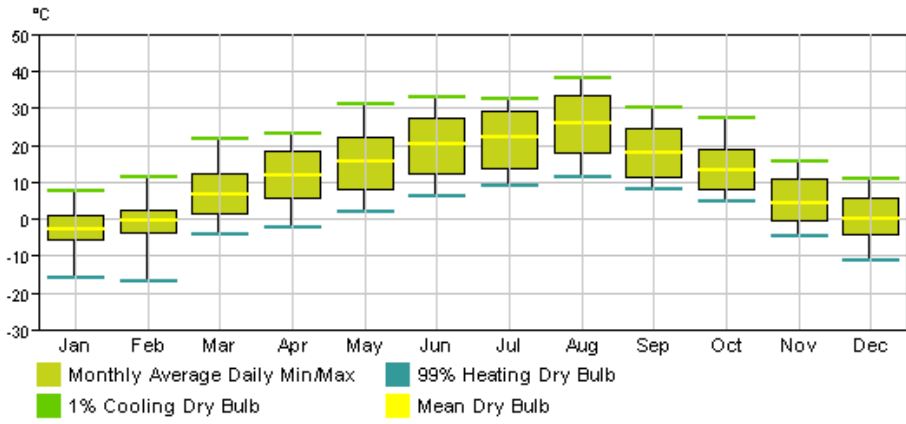
Annual Wind Rose (Frequency Distribution)



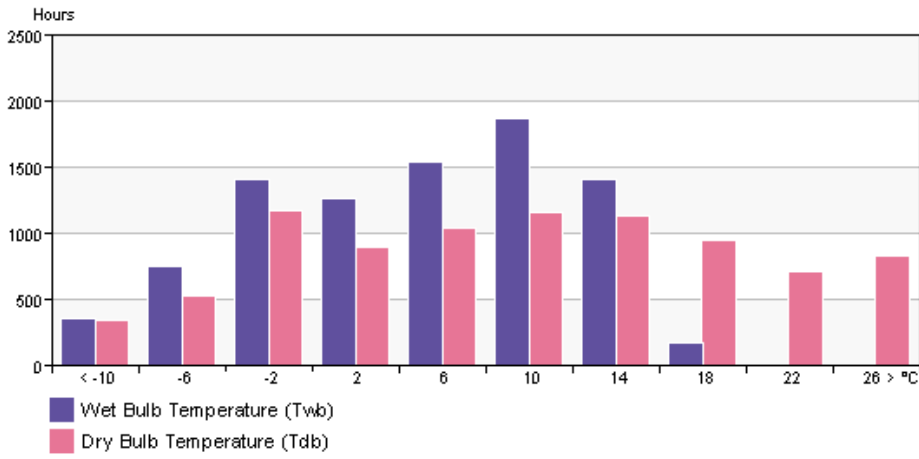
Monthly Wind Roses



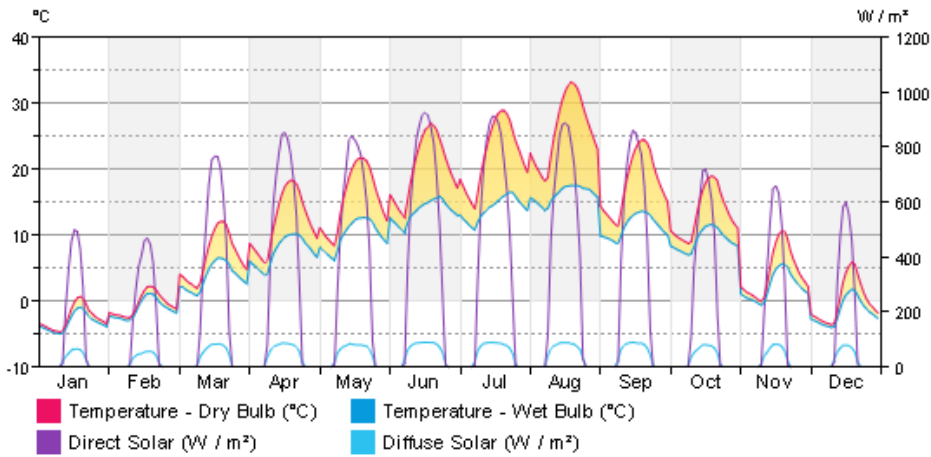
Monthly Design Data



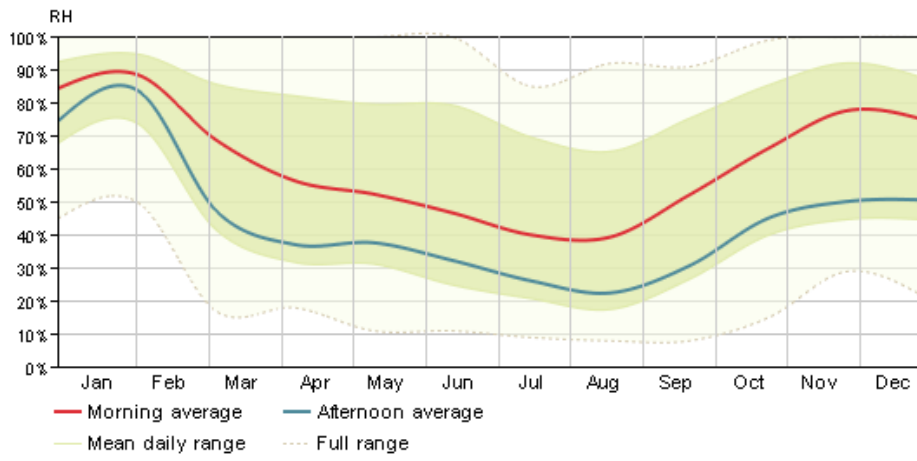
Annual Temperature Bins



Diurnal Weather Averages



Humidity



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Energy Analysis Data