



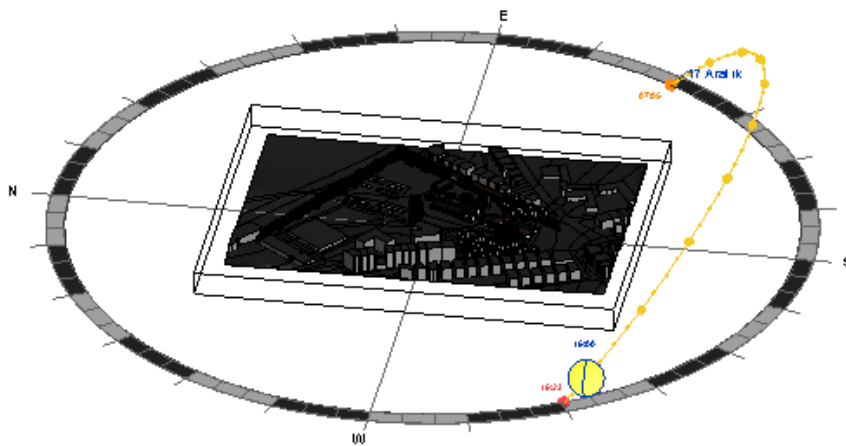
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revit\_kopya Analysis

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 <sup>2</sup>
Exterior Wall Area:	3,835 m <sup>2</sup>
Average Lighting Power:	9.69 W / m <sup>2</sup>
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

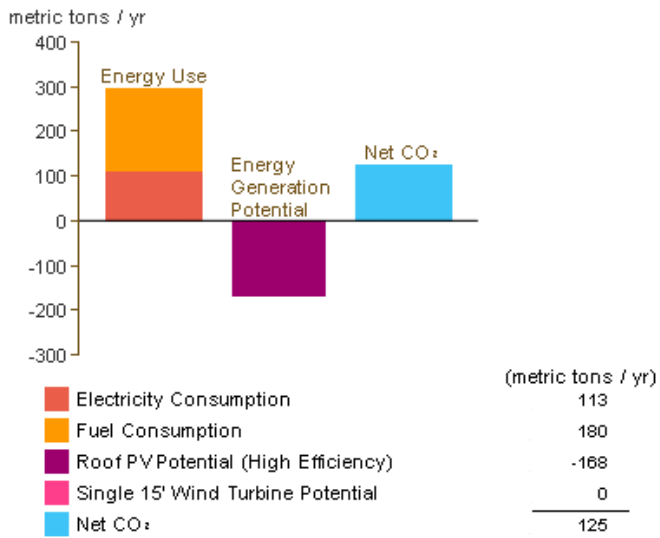
\*30-year life and 6.1% discount rate for costs

### Renewable Energy Potential

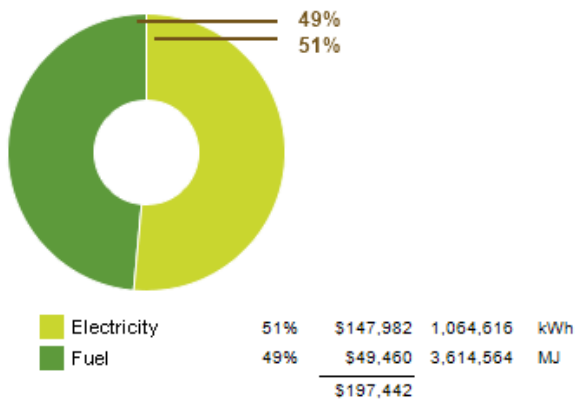
Roof Mounted System (Low efficiency):	527,701 kWh / yr
Roof Mounted PV System (Medium efficiency):	1,055,401 kWh / yr
Roof Mounted PV System (High efficiency):	1,583,102 kWh / yr
Single 15' Wind Turbine Potential:	777 kWh / yr

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

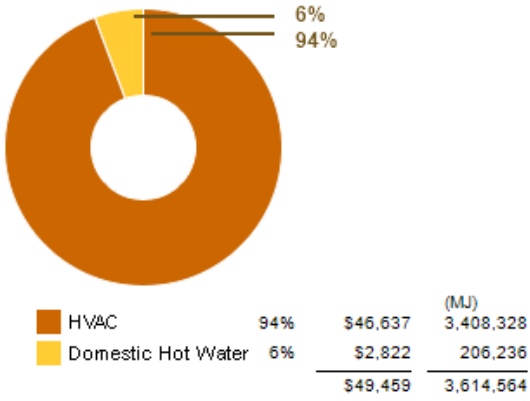
### Annual Carbon Emissions



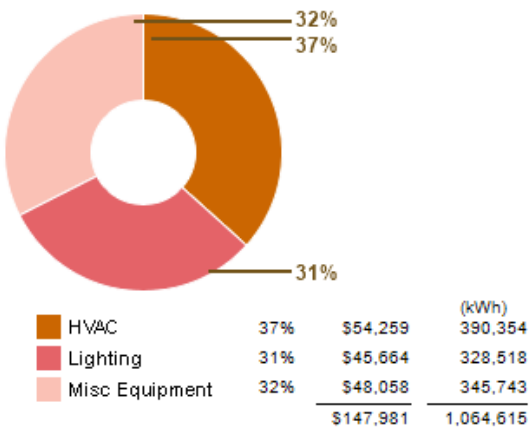
### Annual Energy Use/Cost



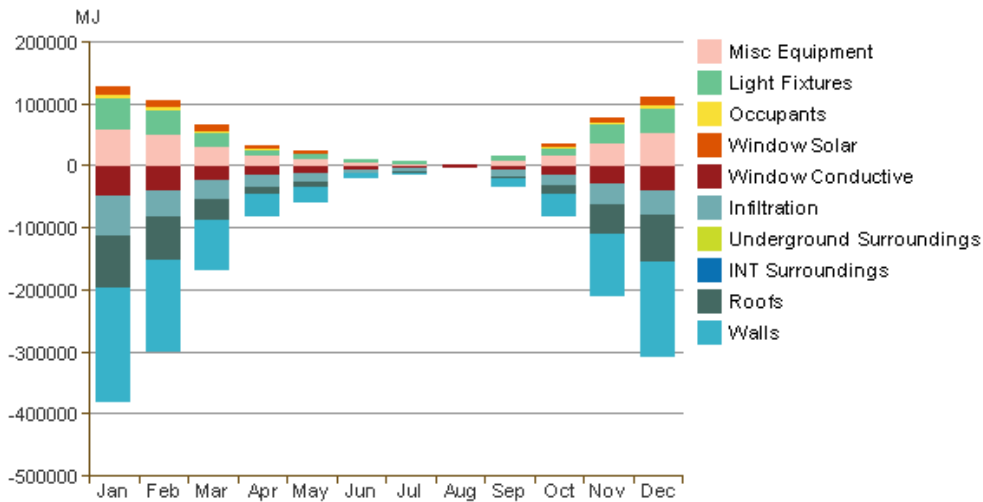
### Energy Use: Fuel



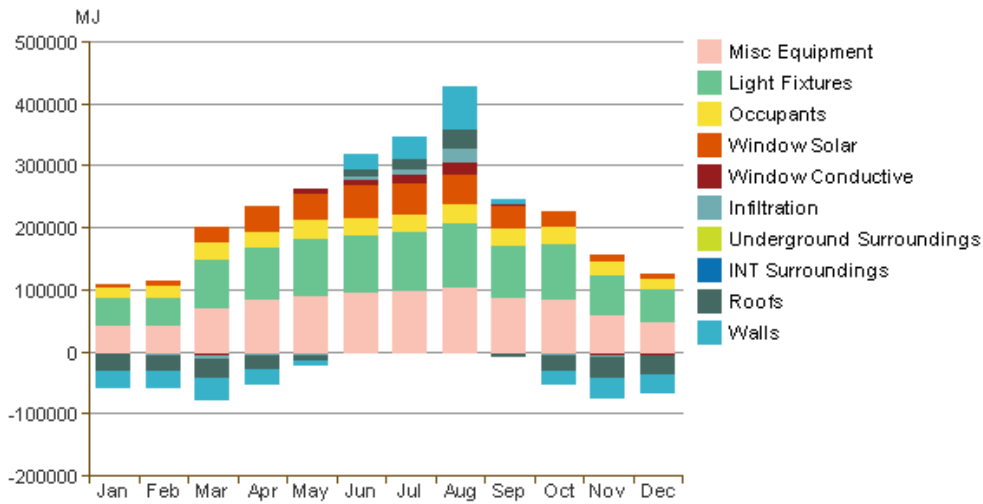
Energy Use: Electricity



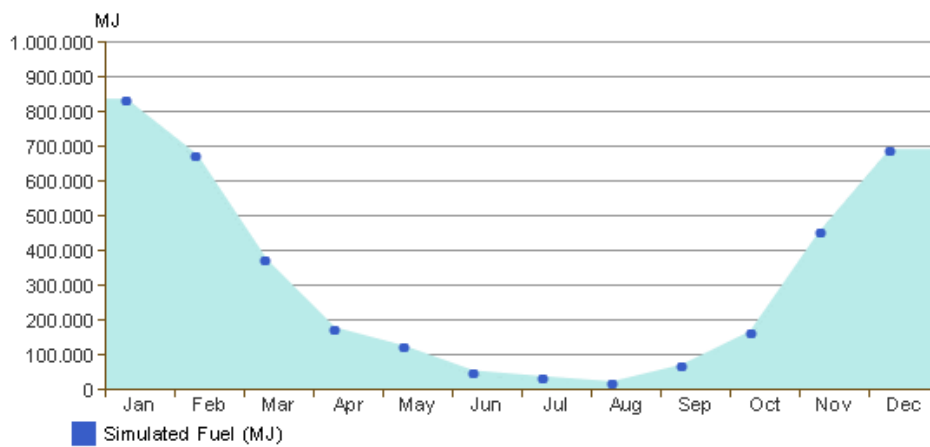
Monthly Heating Load



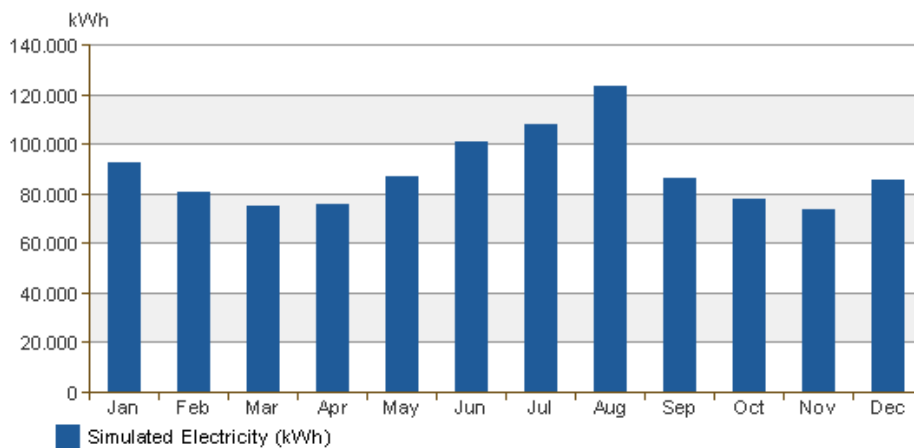
Monthly Cooling Load



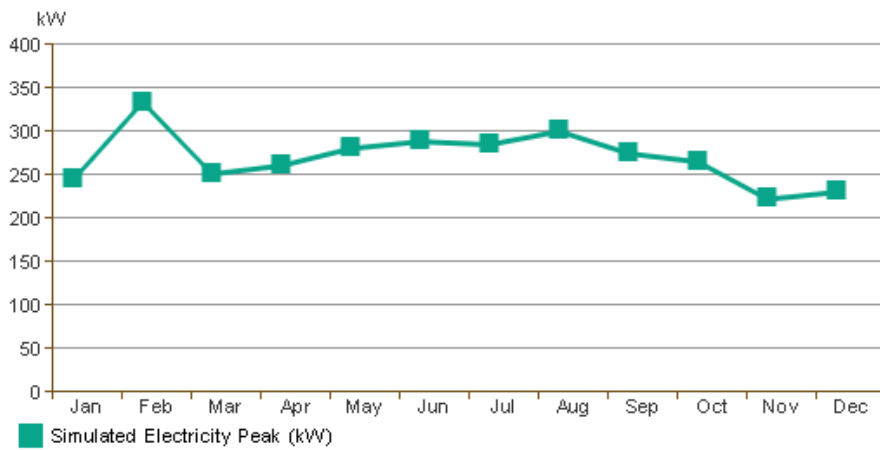
### Monthly Fuel Consumption



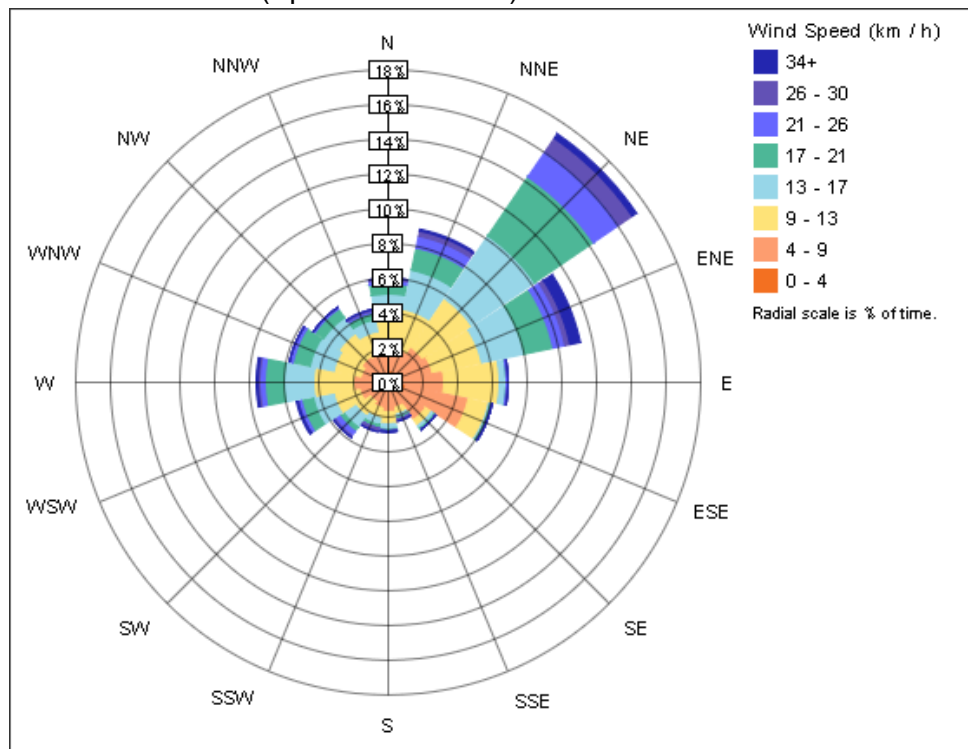
### Monthly Electricity Consumption



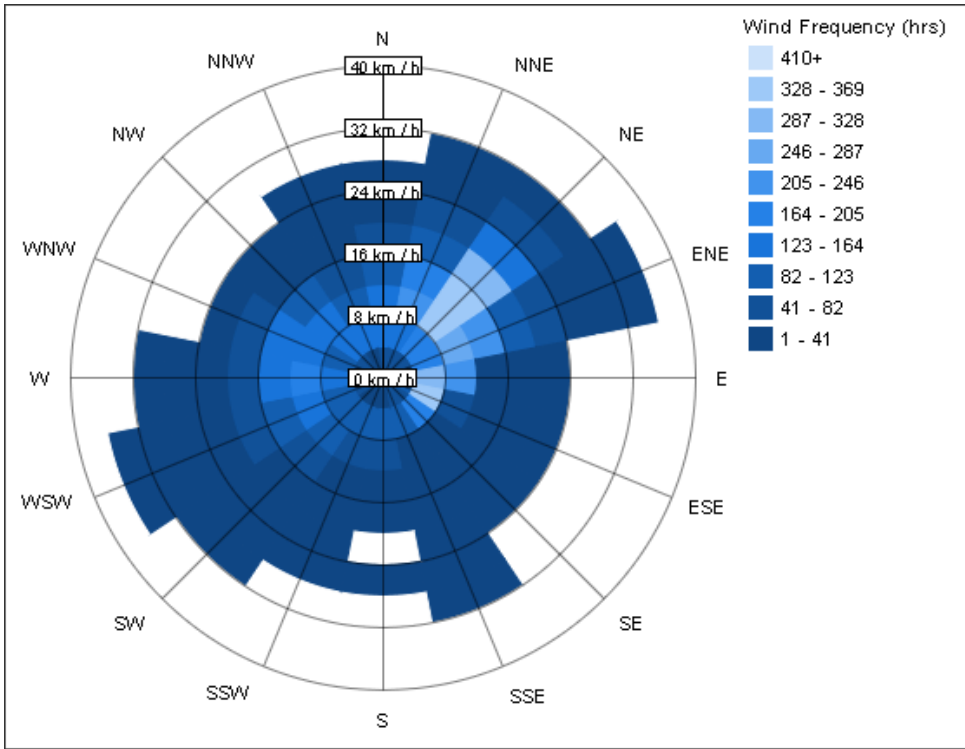
### Monthly Peak Demand



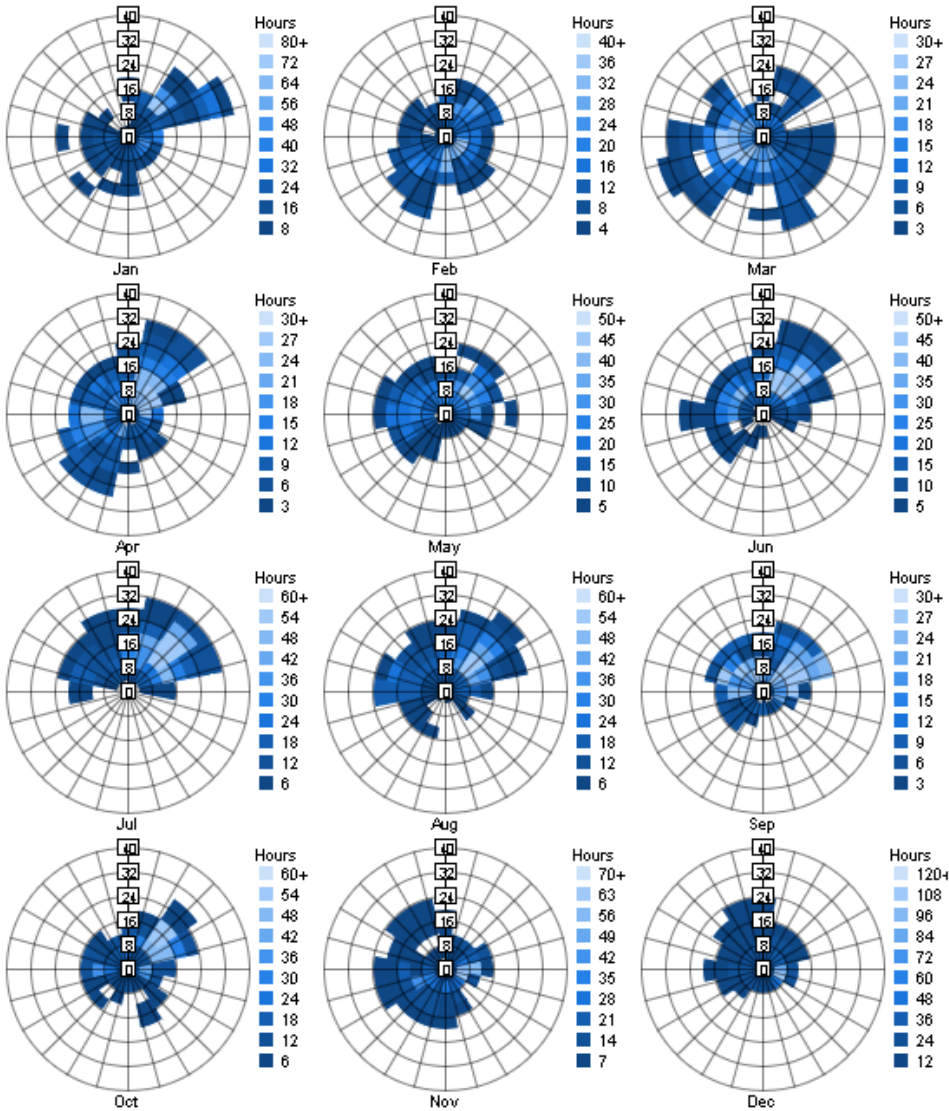
Annual Wind Rose (Speed Distribution)



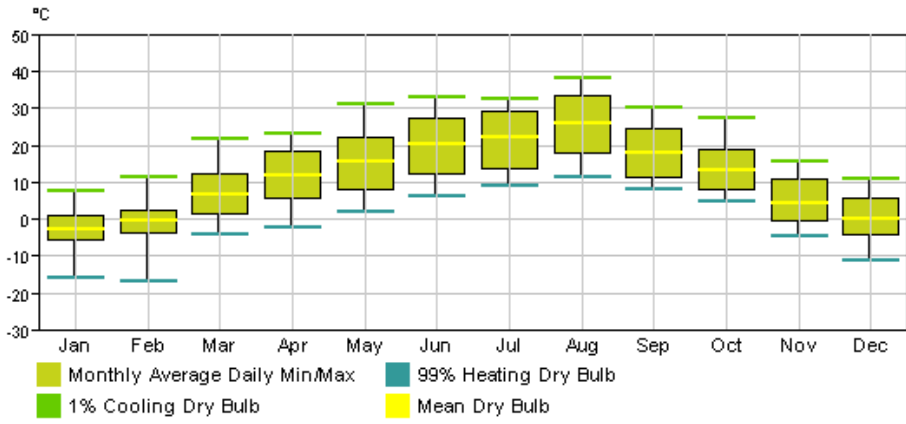
Annual Wind Rose (Frequency Distribution)



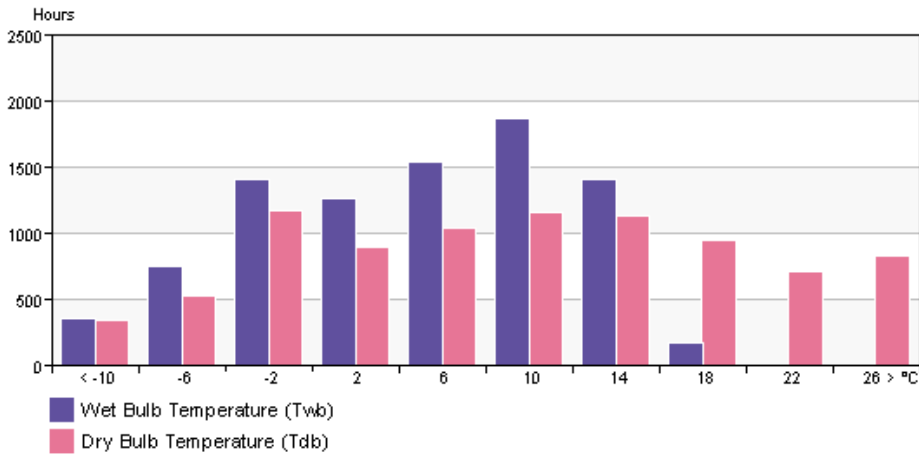
Monthly Wind Roses



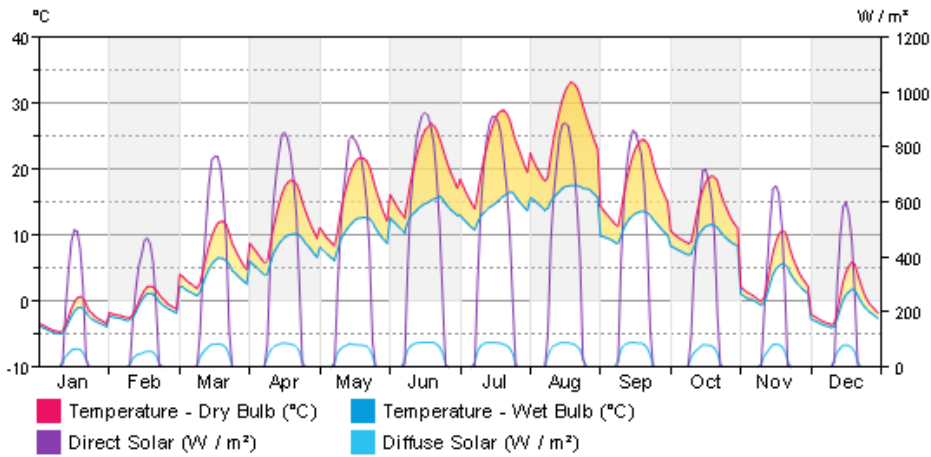
### Monthly Design Data



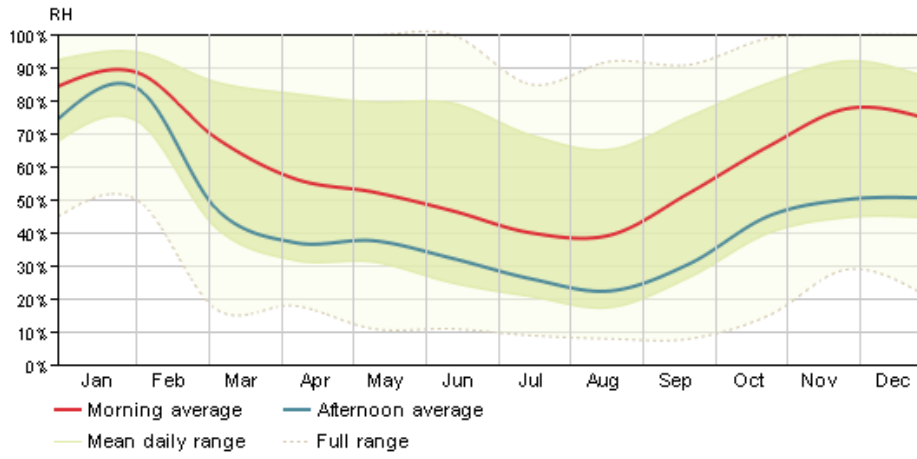
### Annual Temperature Bins



### Diurnal Weather Averages



### Humidity



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## Energy Analysis Data