

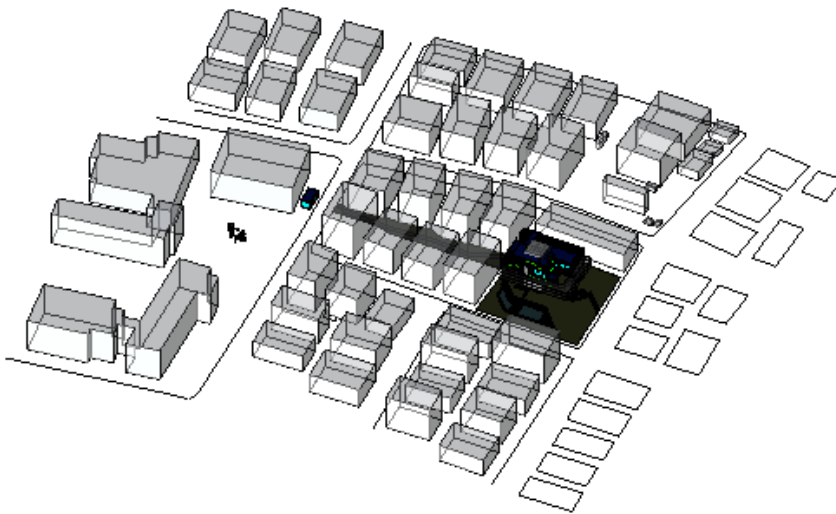


## Enerji Analiszzzzsisiz rendericim Analysis

Analyzed at 12/26/2015 1:12:41 PM

### Energy Analysis Result

960473



### Building Performance Factors

Location:	Ankara, Turkey
Weather Station:	1252135
Outdoor Temperature:	Max: 38°C/Min: -17°C
Floor Area:	704 m <sup>2</sup>
Exterior Wall Area:	731 m <sup>2</sup>
Average Lighting Power:	9.69 W / m <sup>2</sup>
People:	23 people
Exterior Window Ratio:	0.54
Electrical Cost:	\$0.14 / kWh
Fuel Cost:	\$1.44 / Therm

### Energy Use Intensity

Electricity EUI:	170 kWh / sm / yr
Fuel EUI:	1,003 MJ / sm / yr
Total EUI:	1,616 MJ / sm / yr

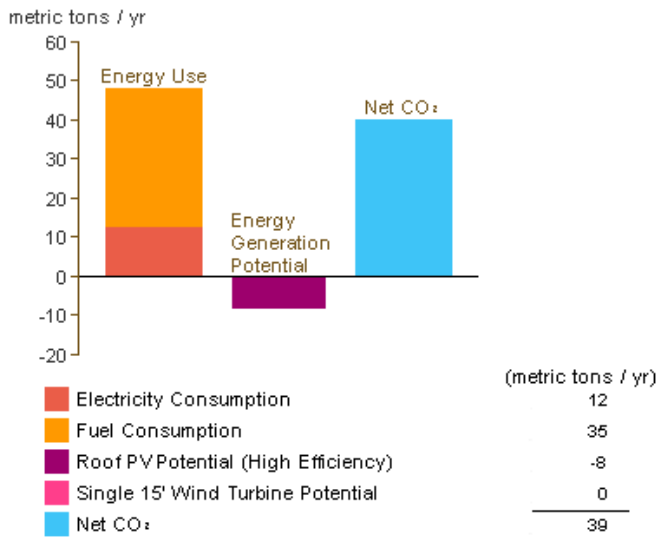
### Life Cycle Energy Use/Cost

Life Cycle Electricity Use:	3,598,431 kWh
Life Cycle Fuel Use:	21,207,202 MJ
Life Cycle Energy Cost:	\$358,829
*30-year life and 6.1% discount rate for costs	

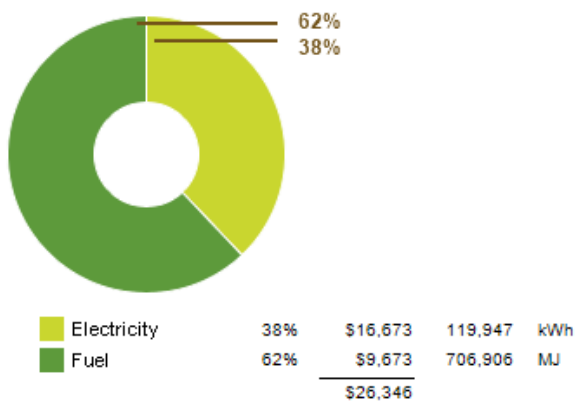
### Renewable Energy Potential

Roof Mounted PV System (Low efficiency):	25,246 kWh / yr
Roof Mounted PV System (Medium efficiency):	50,492 kWh / yr
Roof Mounted PV System (High efficiency):	75,737 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	

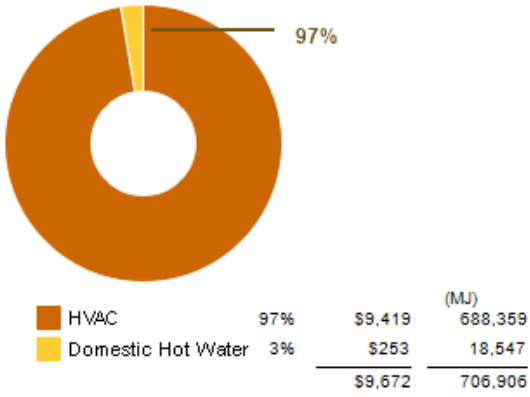
### Annual Carbon Emissions



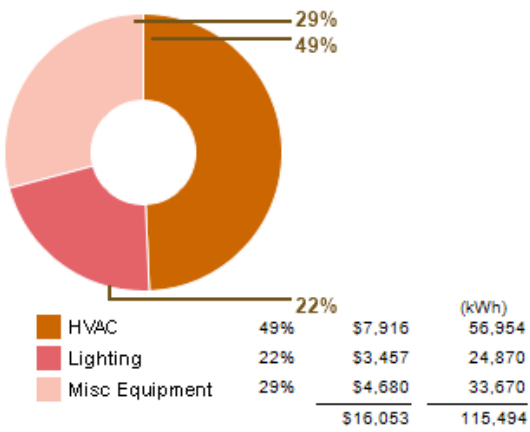
### Annual Energy Use/Cost



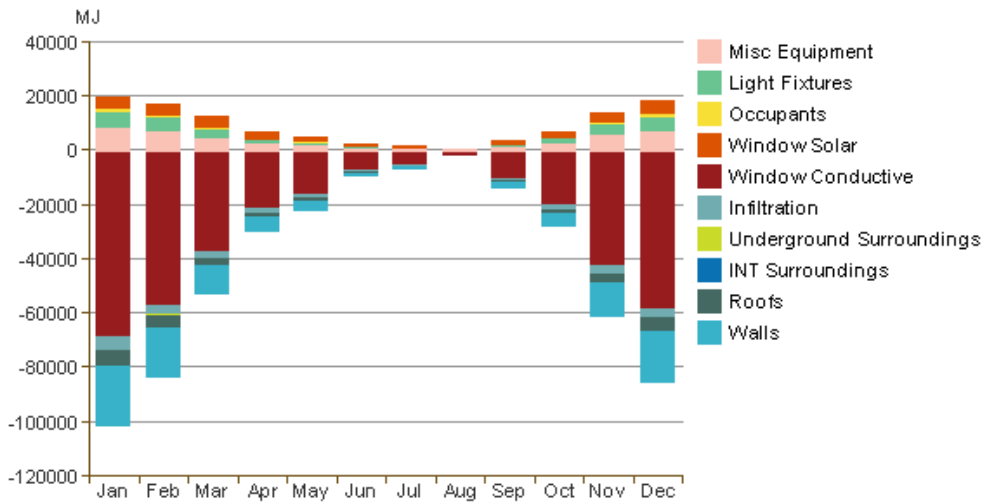
### Energy Use: Fuel



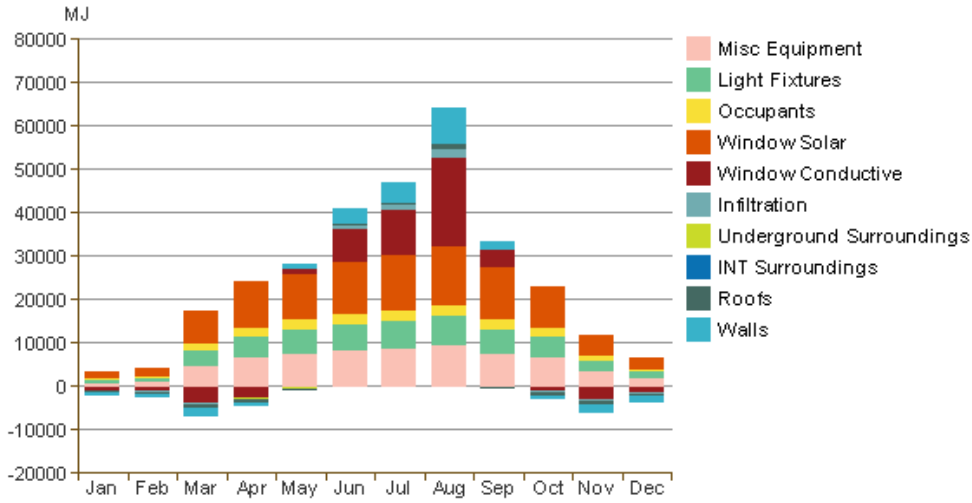
Energy Use: Electricity



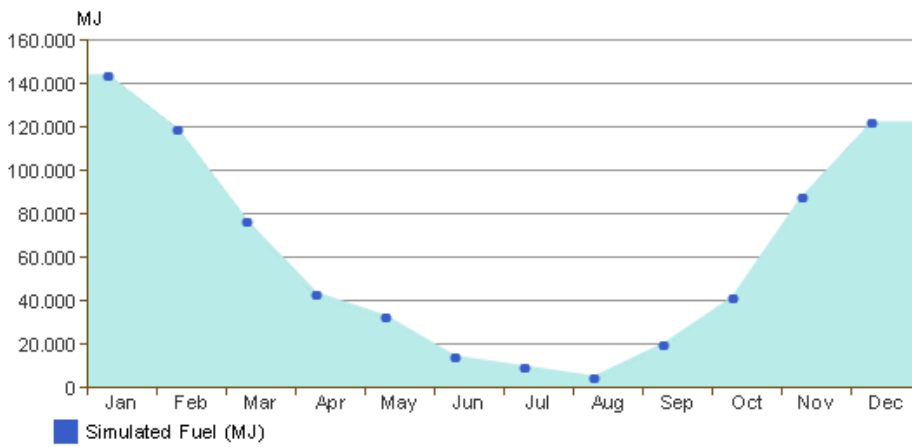
Monthly Heating Load



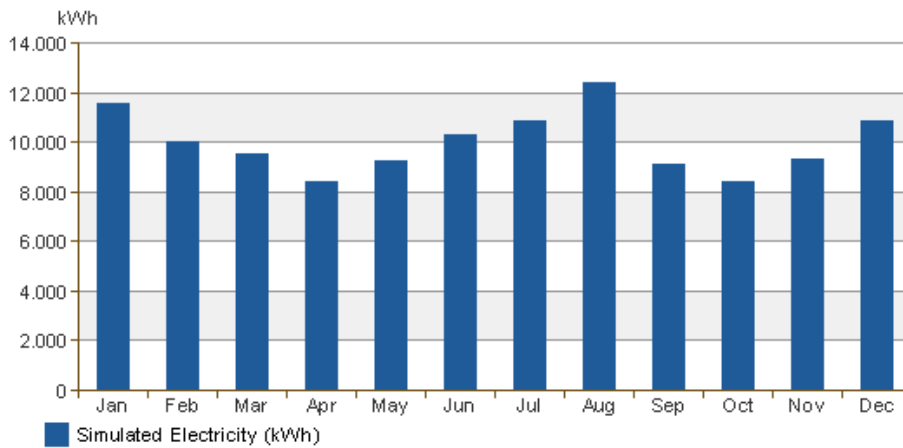
Monthly Cooling Load



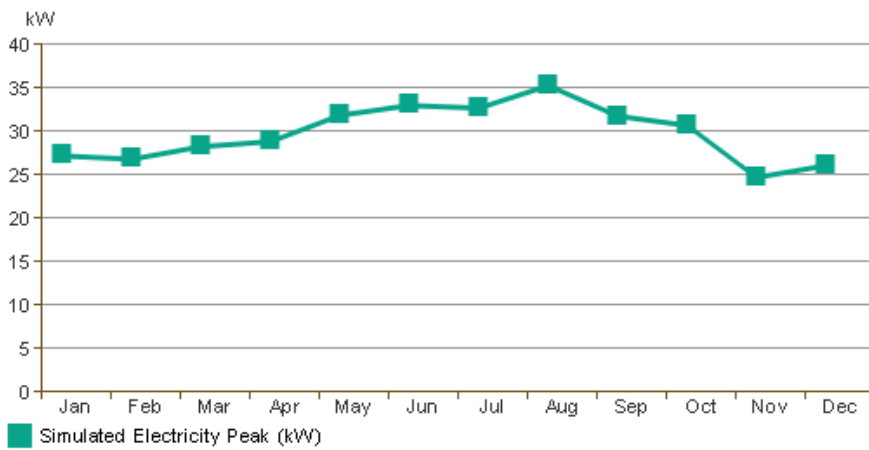
### Monthly Fuel Consumption



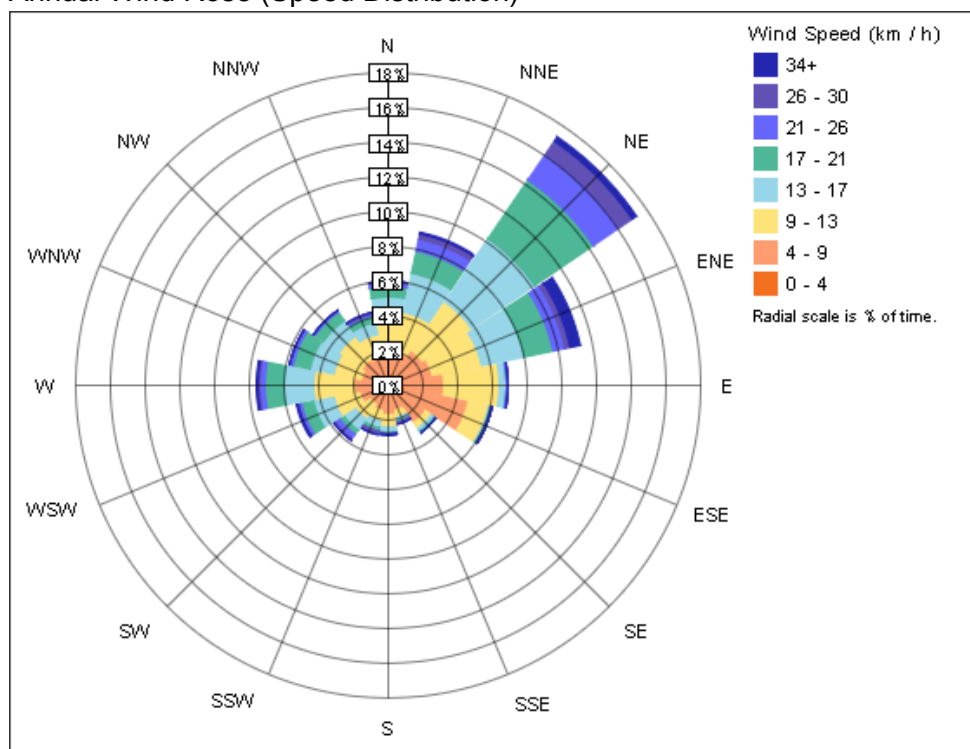
### Monthly Electricity Consumption



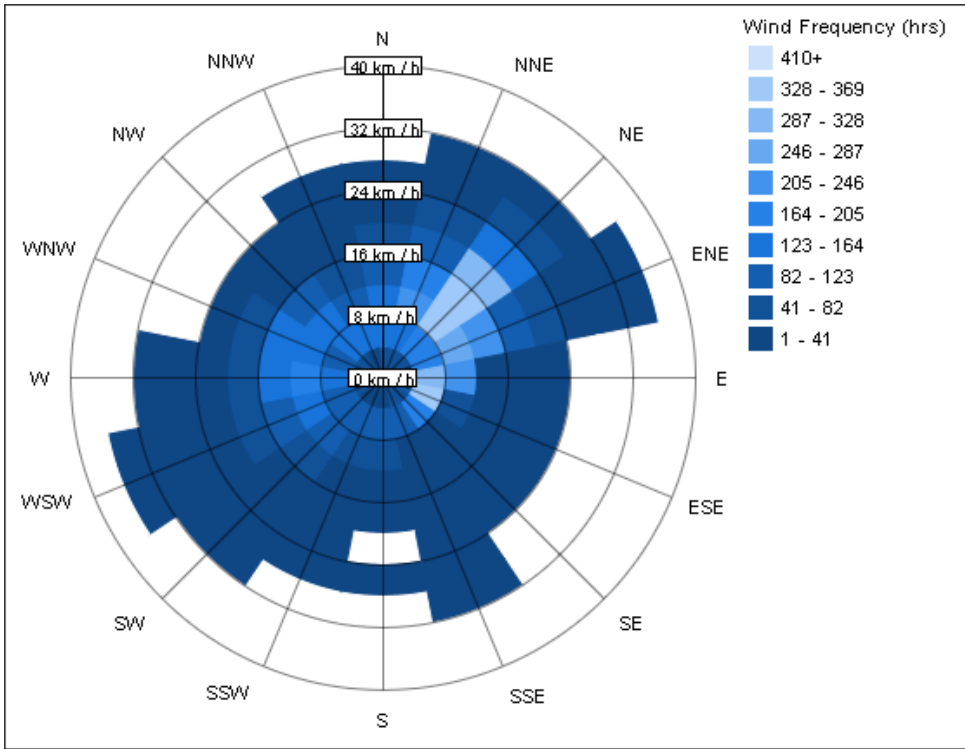
### Monthly Peak Demand



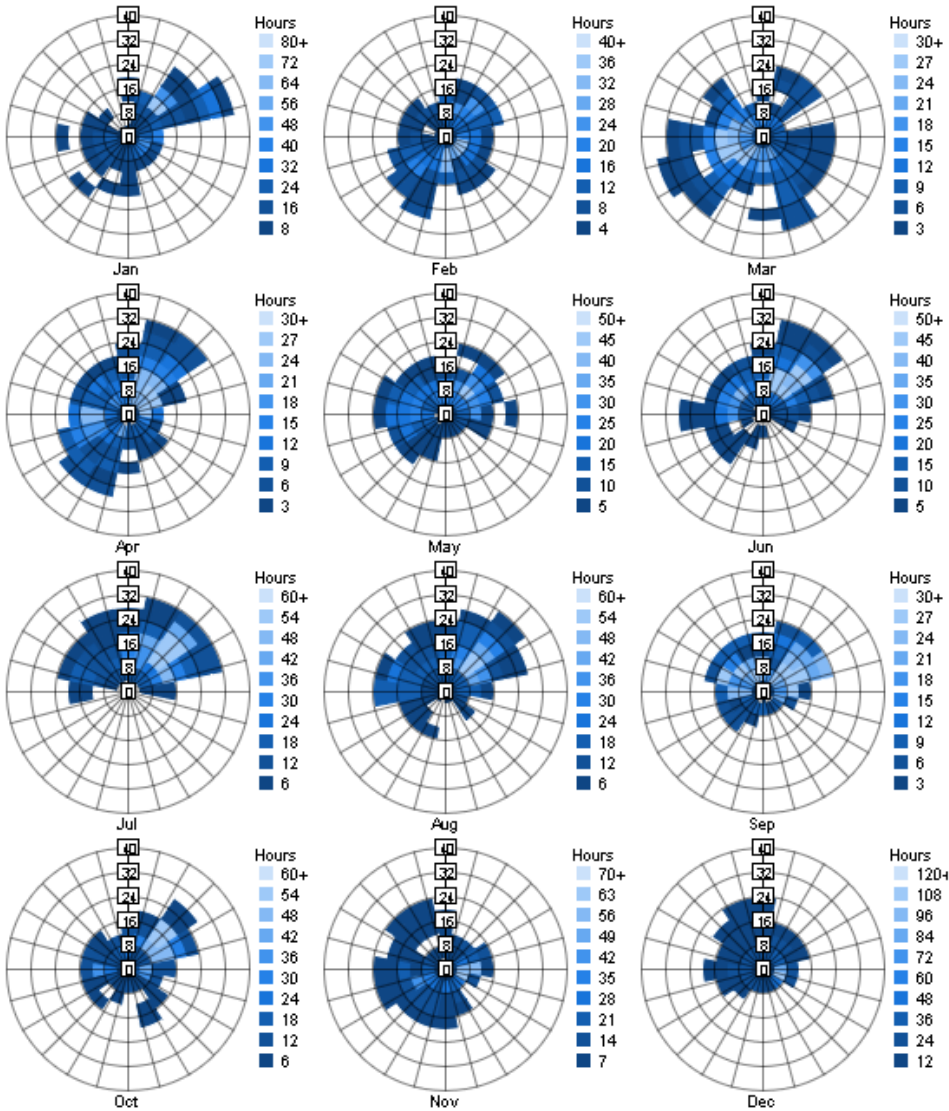
Annual Wind Rose (Speed Distribution)



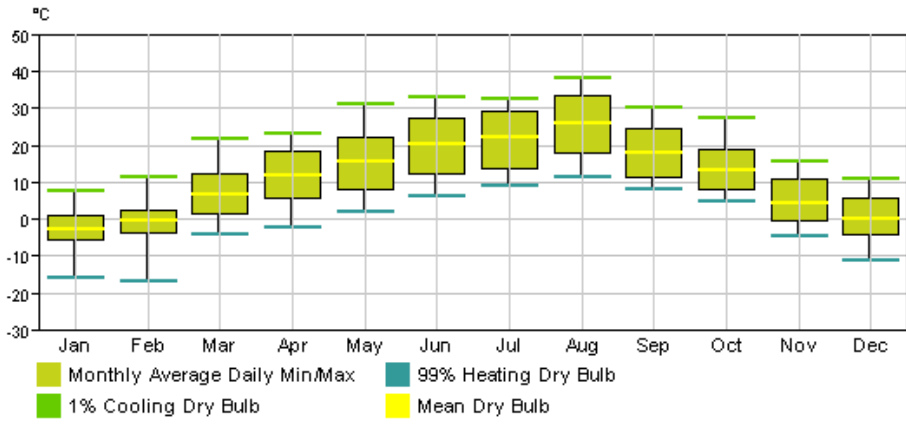
Annual Wind Rose (Frequency Distribution)



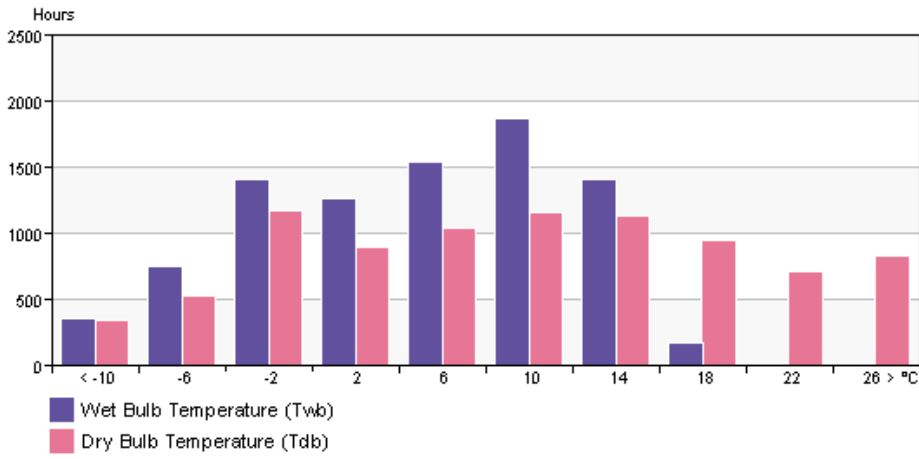
Monthly Wind Roses



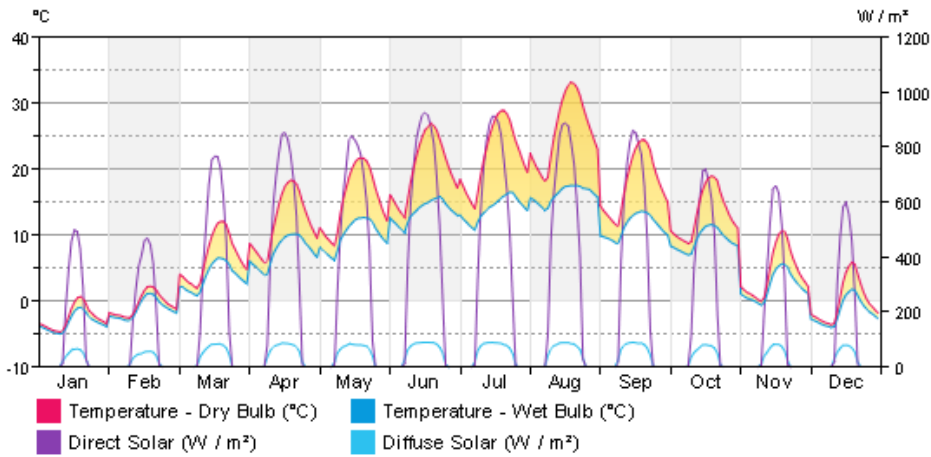
### Monthly Design Data



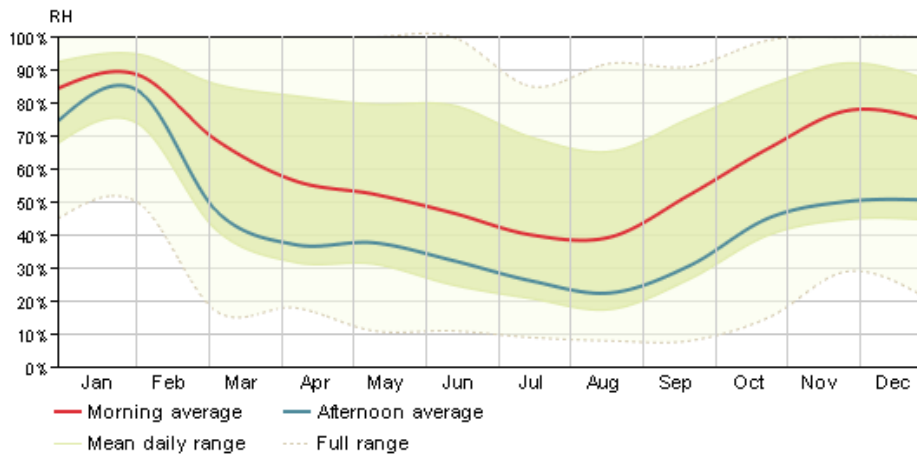
### Annual Temperature Bins



### Diurnal Weather Averages



### Humidity



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## Energy Analysis Data