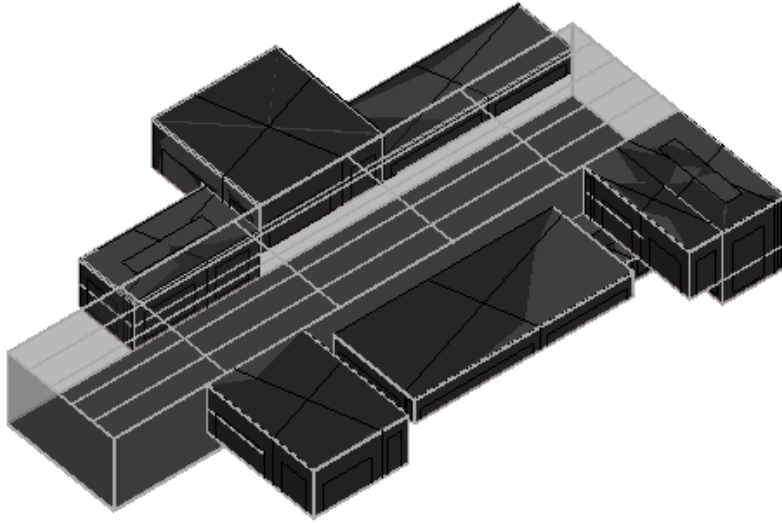




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Energy Analysis Result

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Building Performance Factors

Location:	Ankara, Turkey
Weather Station:	188208
Outdoor Temperature:	Max: 36°C/Min: -9°C
Floor Area:	750 m ²
Exterior Wall Area:	3,487 m ²
Average Lighting Power:	12.92 W / m ²
People:	119 people
Exterior Window Ratio:	0.40
Electrical Cost:	\$0.14 / kWh
Fuel Cost:	\$1.44 / Therm

Energy Use Intensity

Electricity EUI:	129 kWh / sm / yr
Fuel EUI:	356 MJ / sm / yr
Total EUI:	821 MJ / sm / yr

Life Cycle Energy Use/Cost

Life Cycle Electricity Use:	9,256,695 kWh
Life Cycle Fuel Use:	25,499,032 MJ
Life Cycle Energy Cost:	\$742,561

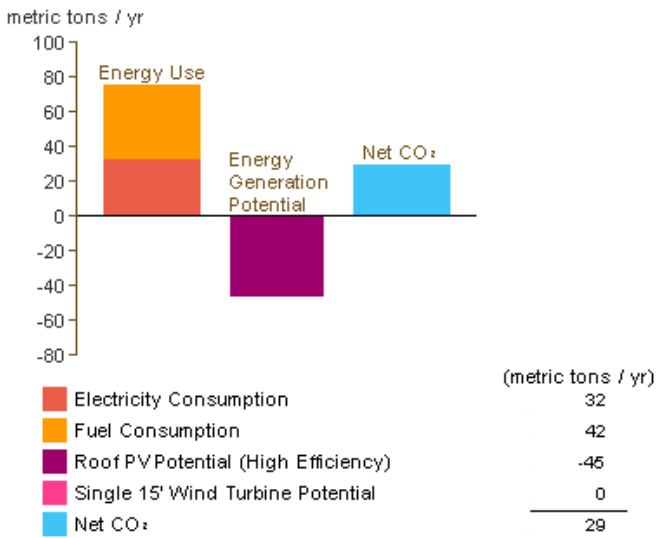
*30-year life and 6.1% discount rate for costs

Renewable Energy Potential

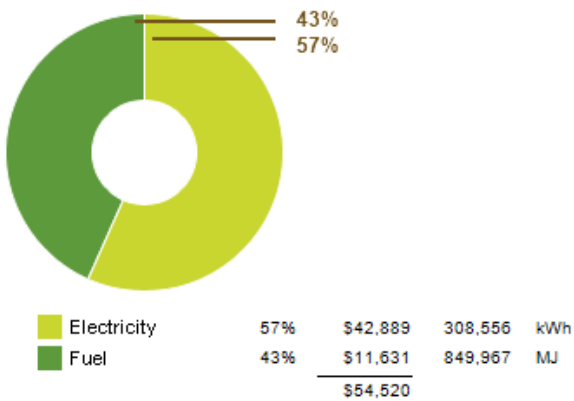
Roof Mounted System (Low efficiency):	142,892 kWh / yr
Roof Mounted PV System (Medium efficiency):	285,784 kWh / yr
Roof Mounted PV System (High efficiency):	428,675 kWh / yr
Single 15' Wind Turbine Potential:	943 kWh / yr

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

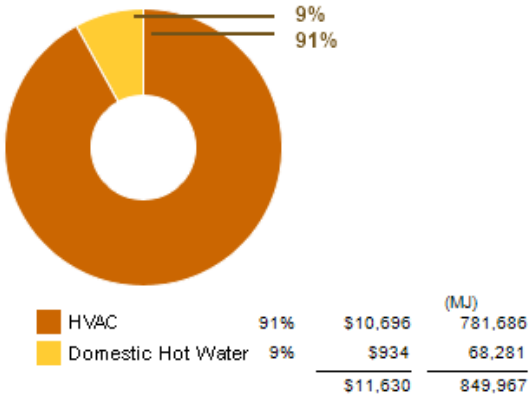
Annual Carbon Emissions



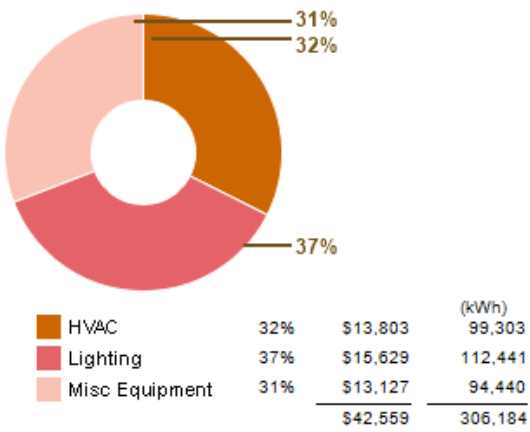
Annual Energy Use/Cost



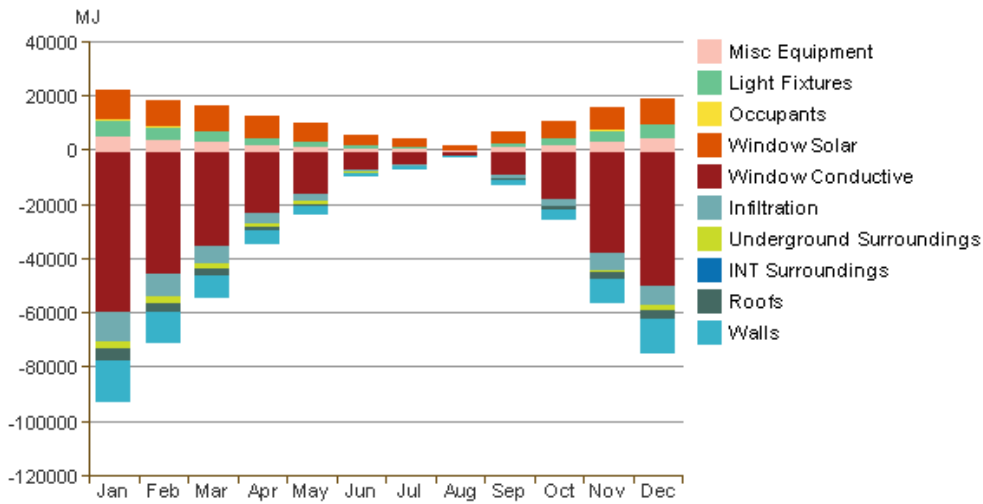
Energy Use: Fuel



Energy Use: Electricity

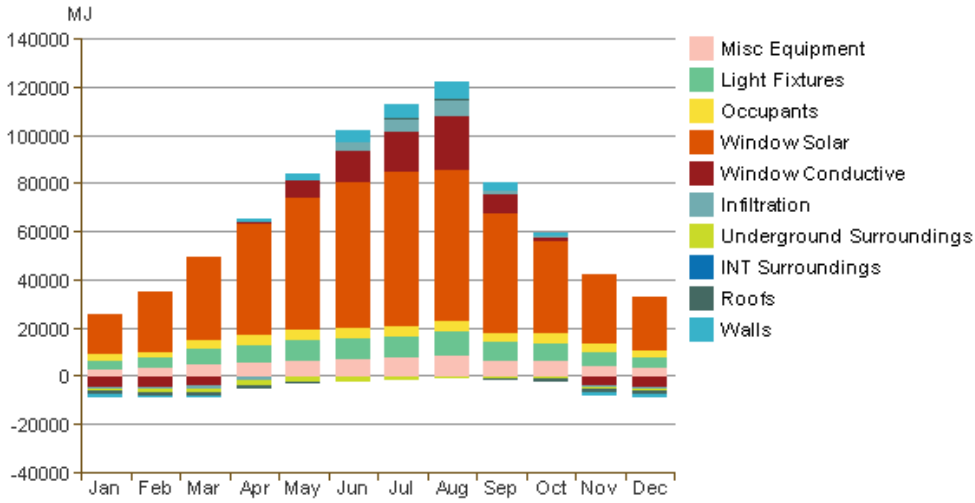


Monthly Heating Load

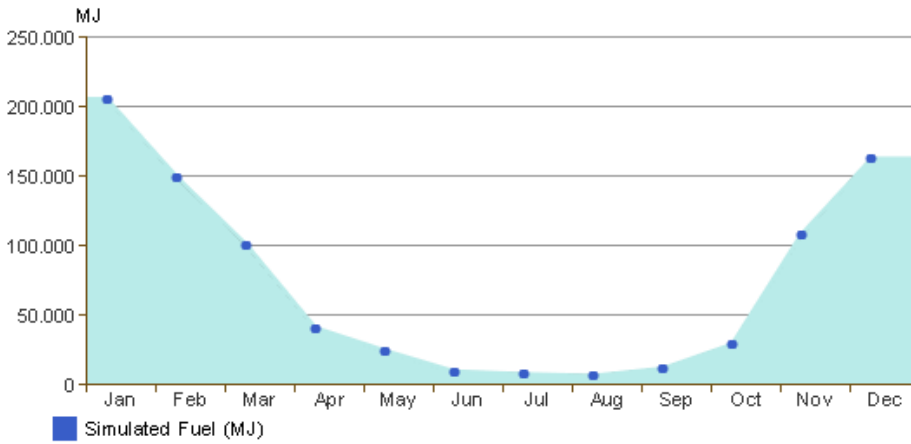


Monthly Cooling Load

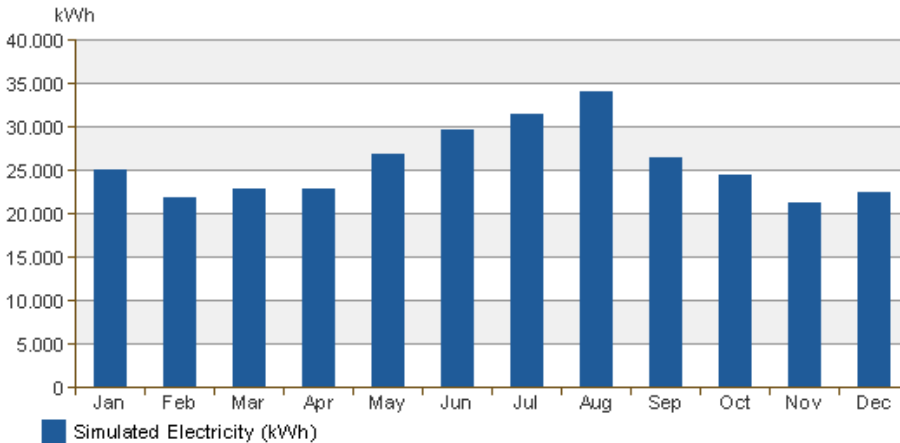
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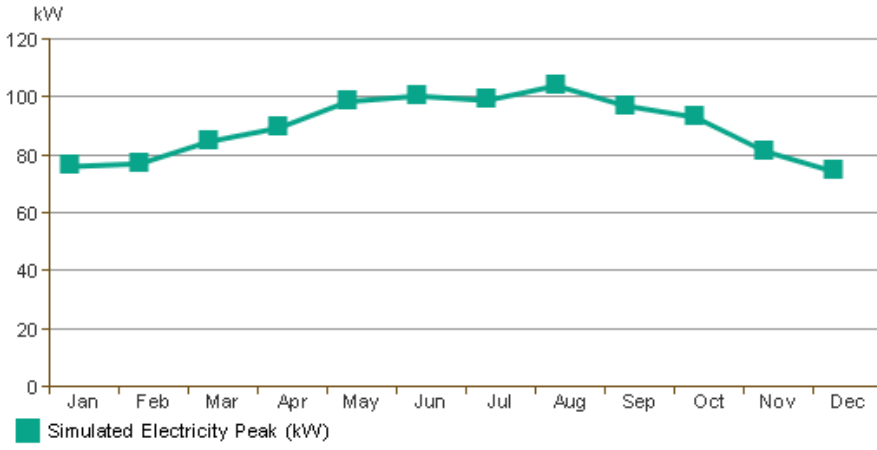
Monthly Fuel Consumption



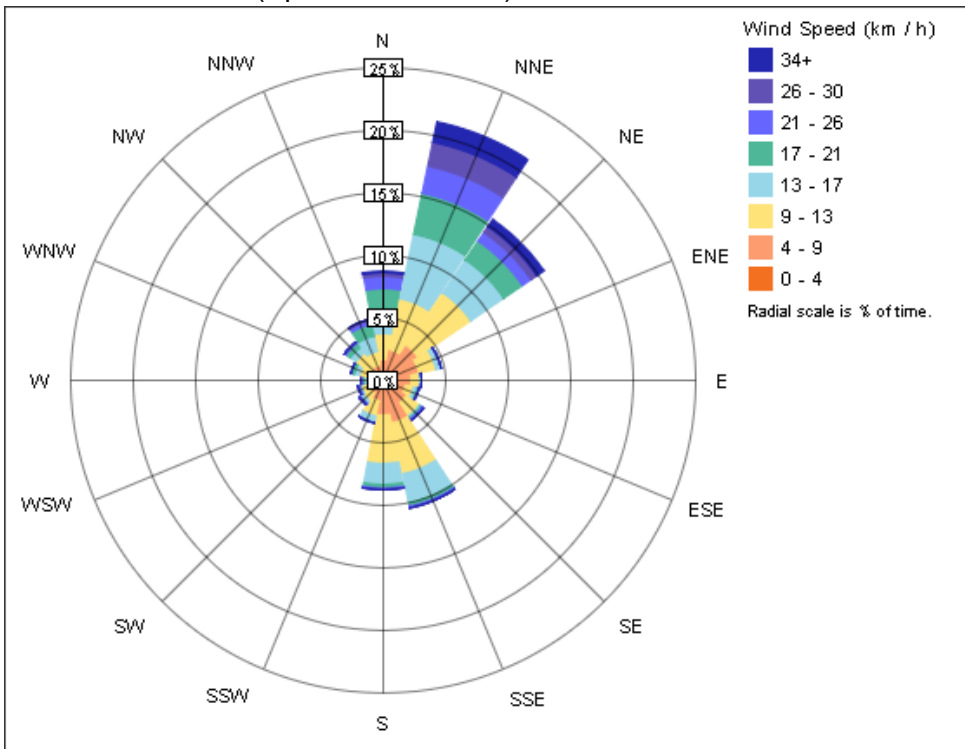
Monthly Electricity Consumption



Monthly Peak Demand

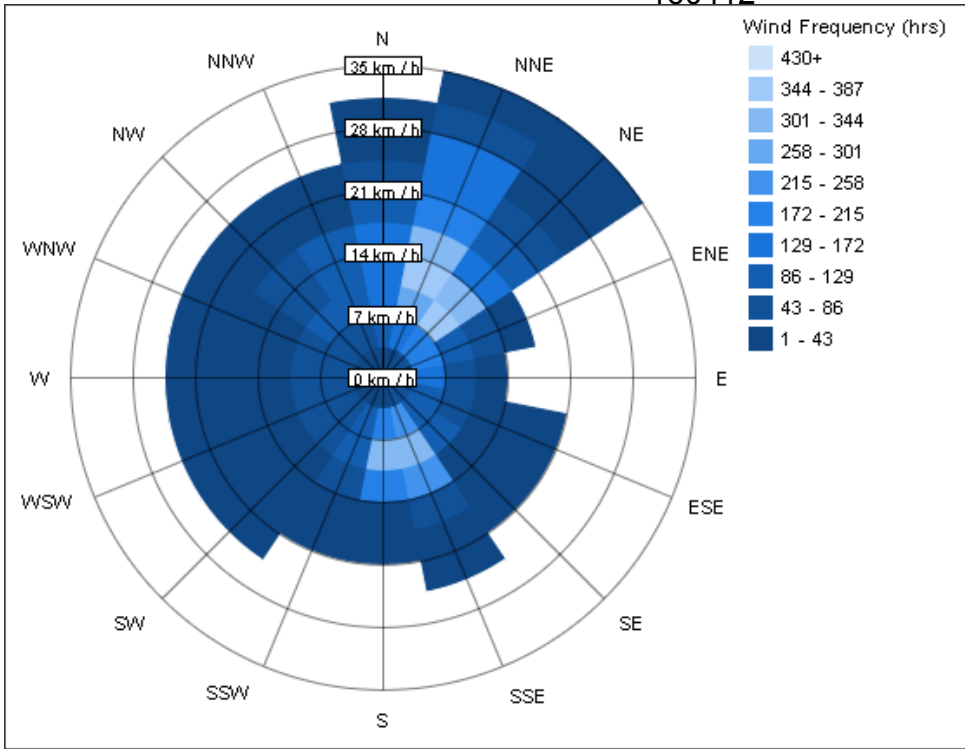


Annual Wind Rose (Speed Distribution)

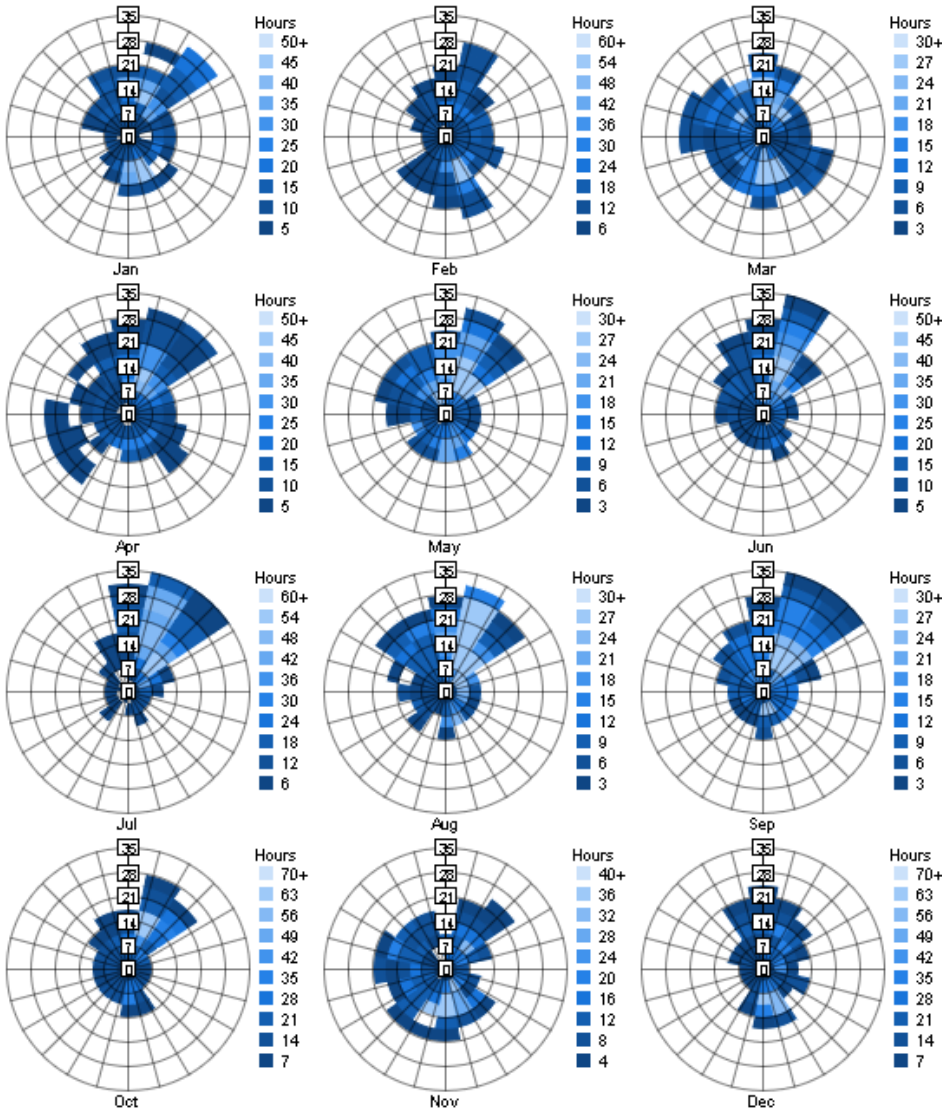


Annual Wind Rose (Frequency Distribution)

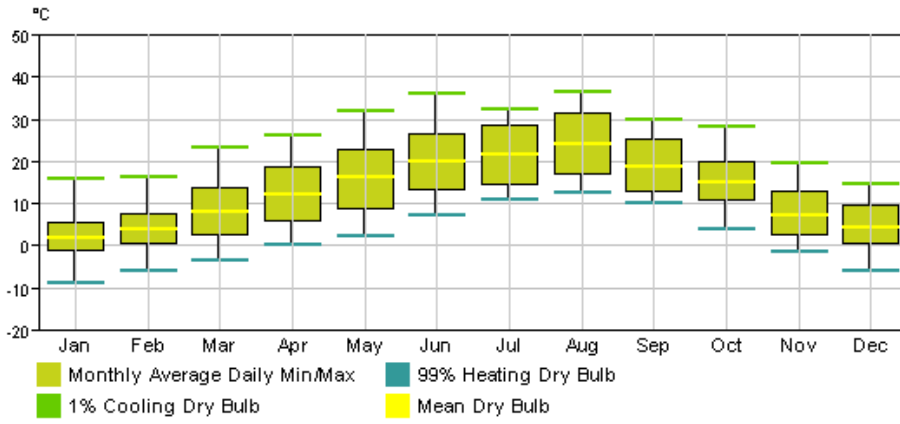
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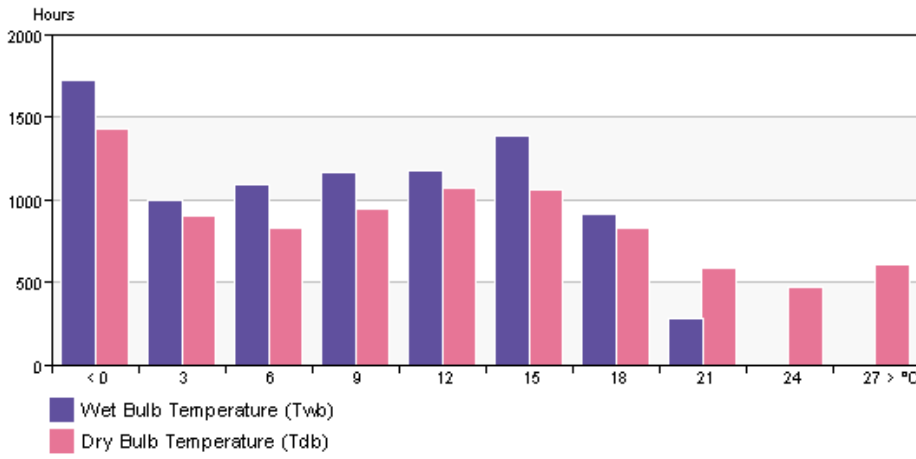
Monthly Wind Roses



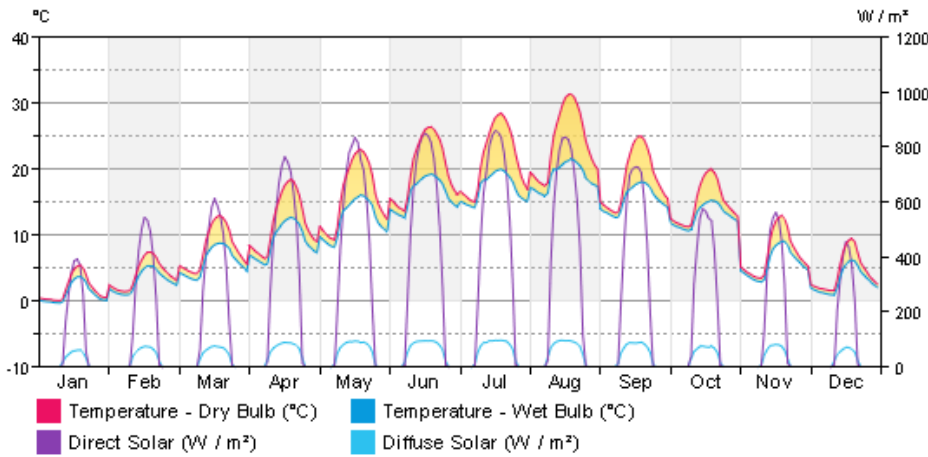
Monthly Design Data



Annual Temperature Bins

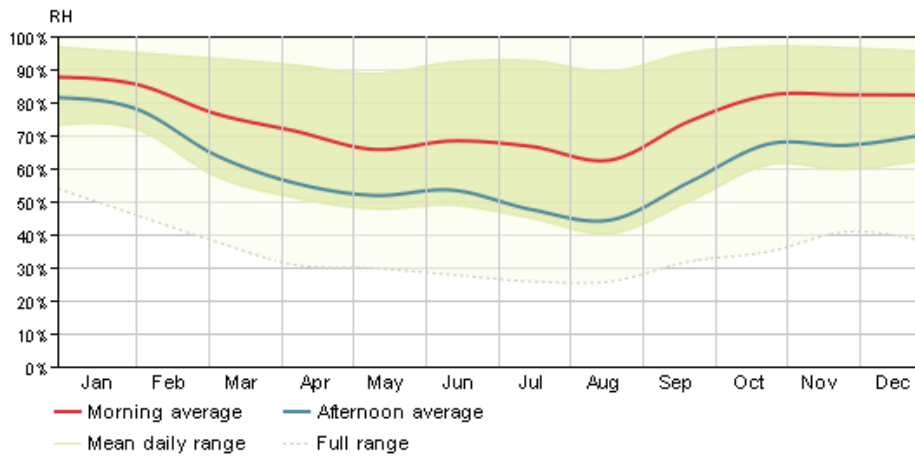


Diurnal Weather Averages



Humidity

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Energy Analysis Data