



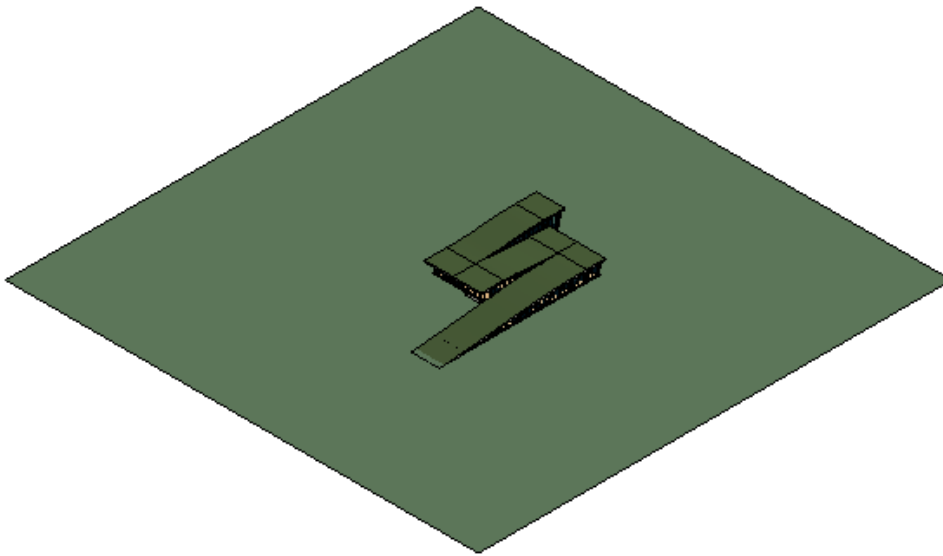
DesignNext2015

DesignNext2015 Analysis

Analyzed at 12/26/2015 10:49:14 PM

Energy Analysis Result

276383



Building Performance Factors

Location:	Kayseri, Turkey
Weather Station:	188208
Outdoor Temperature:	Max: 36°C/Min: -9°C
Floor Area:	1,595 m ²
Exterior Wall Area:	11 m ²
Average Lighting Power:	9.69 W / m ²
People:	46 people
Exterior Window Ratio:	86.18
Electrical Cost:	\$0.14 / kWh
Fuel Cost:	\$1.44 / Therm

Energy Use Intensity

Electricity EUI:	155 kWh / sm / yr
Fuel EUI:	562 MJ / sm / yr
Total EUI:	1,121 MJ / sm / yr

Life Cycle Energy Use/Cost

Life Cycle Electricity Use:	5,416,818 kWh
Life Cycle Fuel Use:	19,580,059 MJ
Life Cycle Energy Cost:	\$463,471

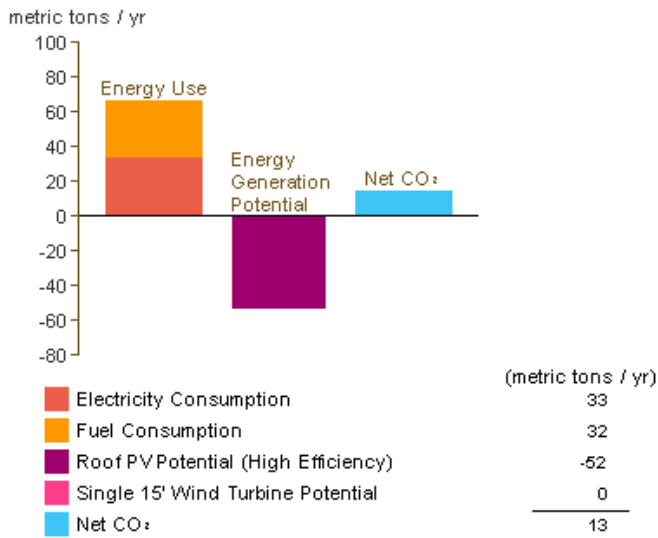
*30-year life and 6.1% discount rate for costs

Renewable Energy Potential

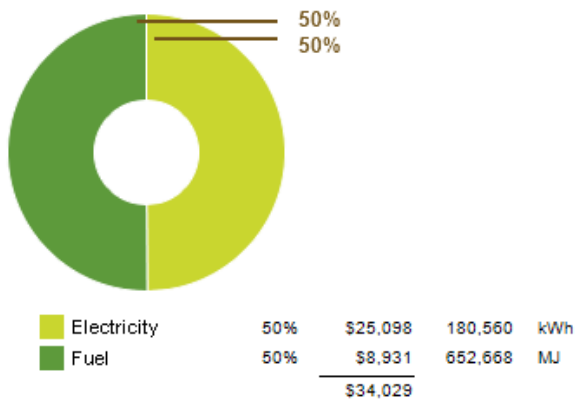
Roof Mounted System (Low efficiency):	93,671 kWh / yr
Roof Mounted PV System (Medium efficiency):	187,342 kWh / yr
Roof Mounted PV System (High efficiency):	281,013 kWh / yr
Single 15' Wind Turbine Potential:	943 kWh / yr

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

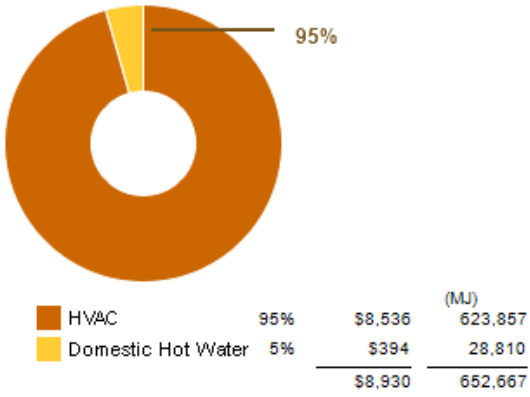
Annual Carbon Emissions



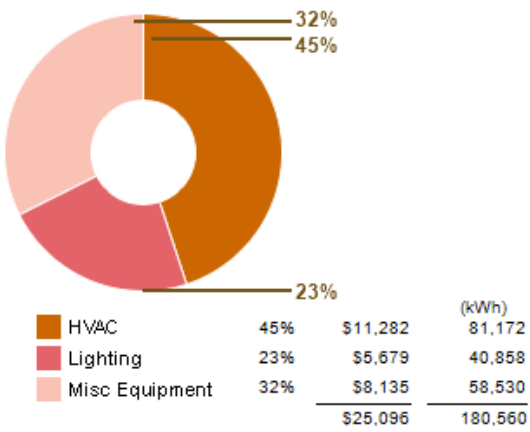
Annual Energy Use/Cost



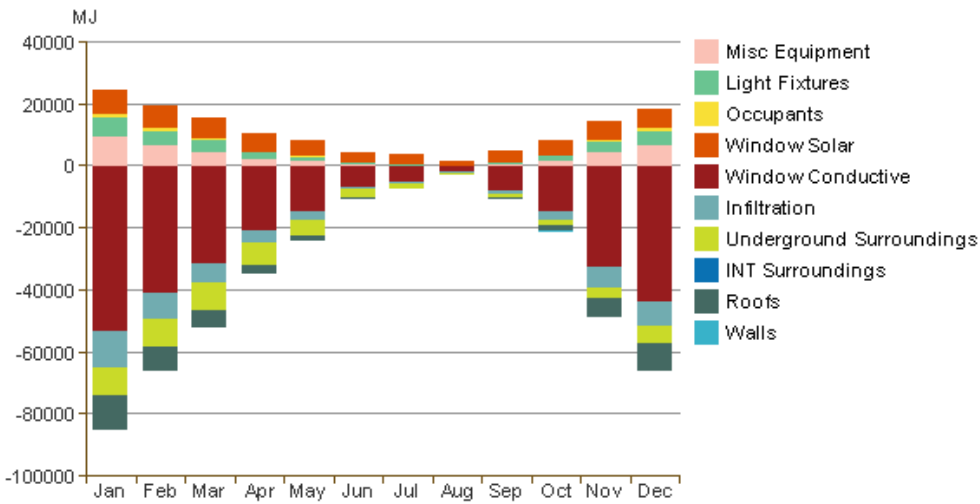
Energy Use: Fuel



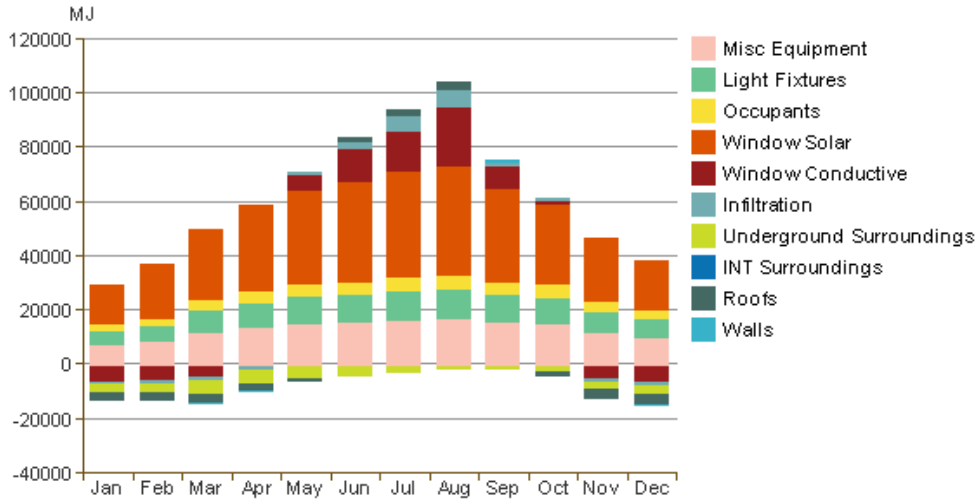
Energy Use: Electricity



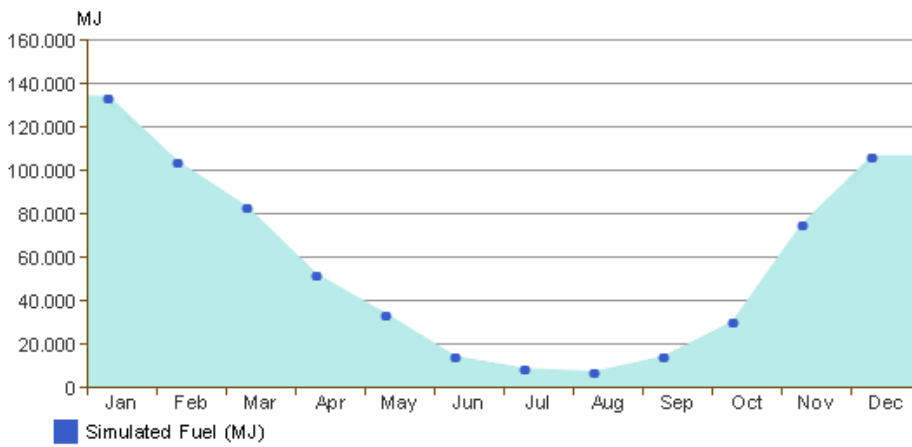
Monthly Heating Load



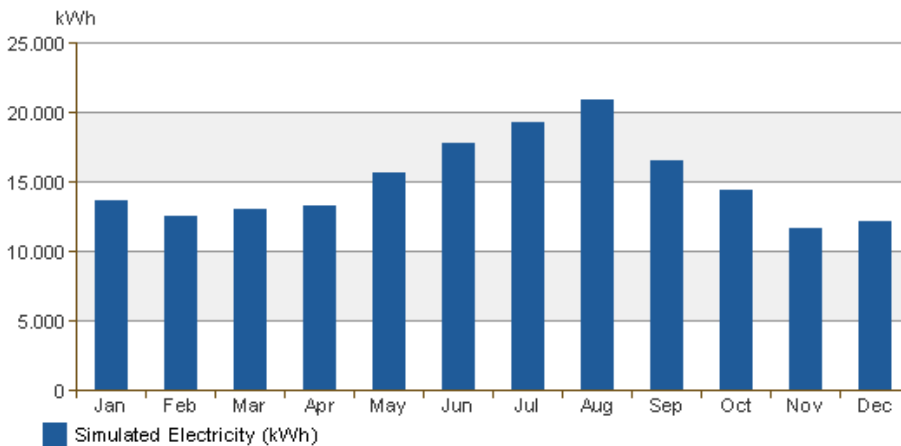
Monthly Cooling Load



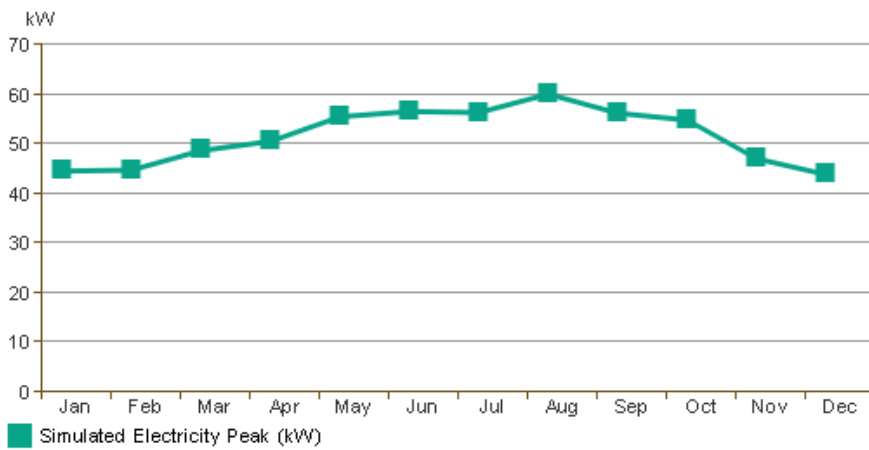
Monthly Fuel Consumption



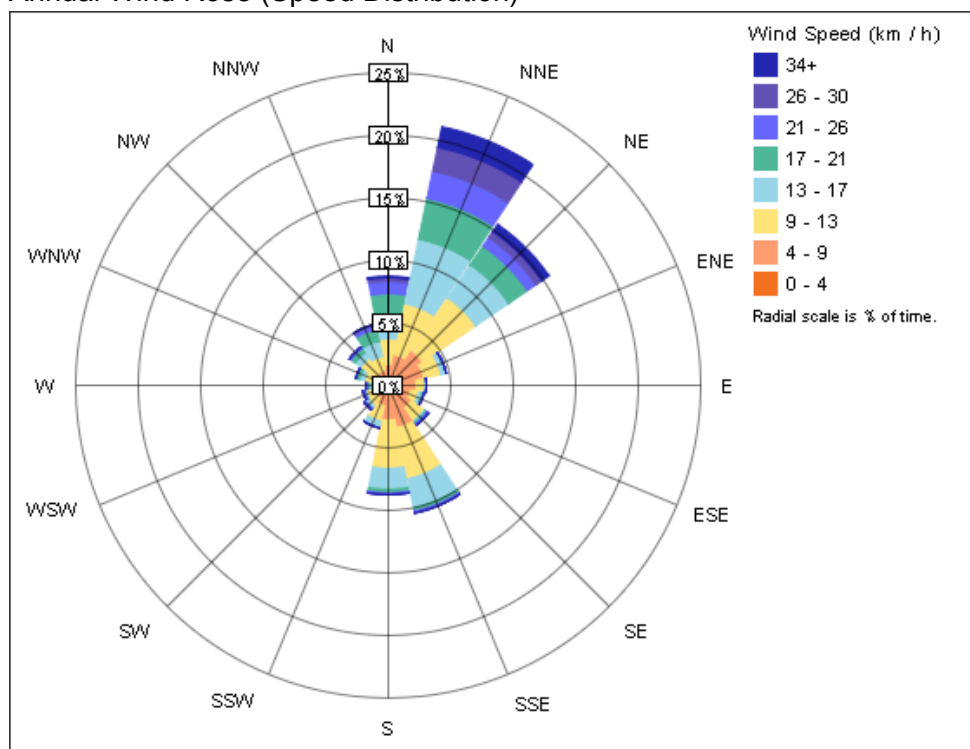
Monthly Electricity Consumption



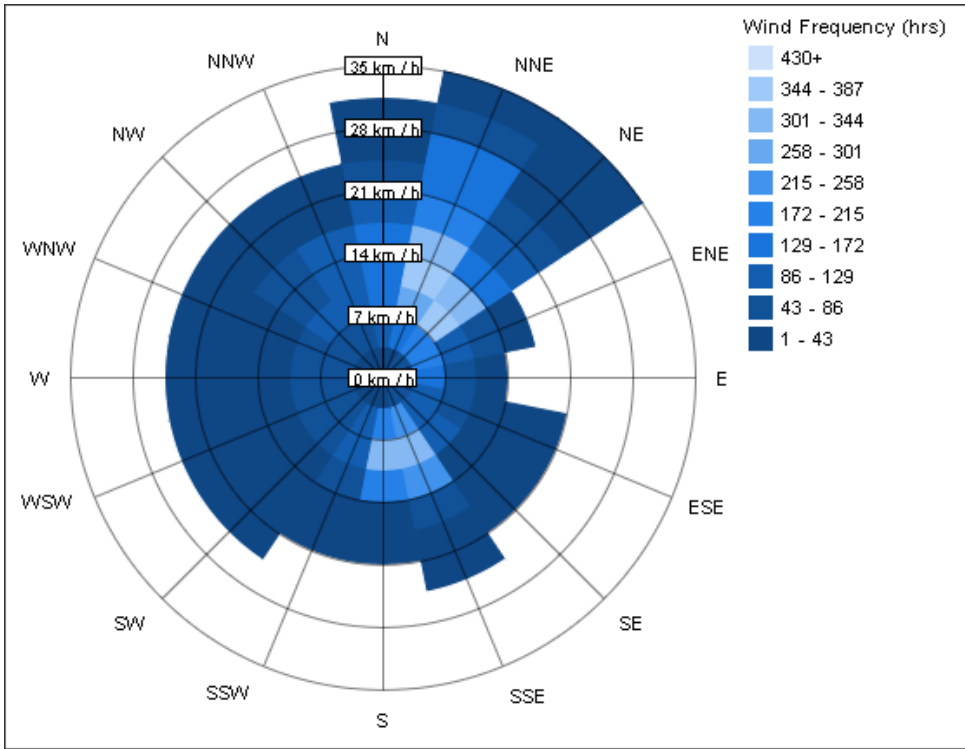
Monthly Peak Demand



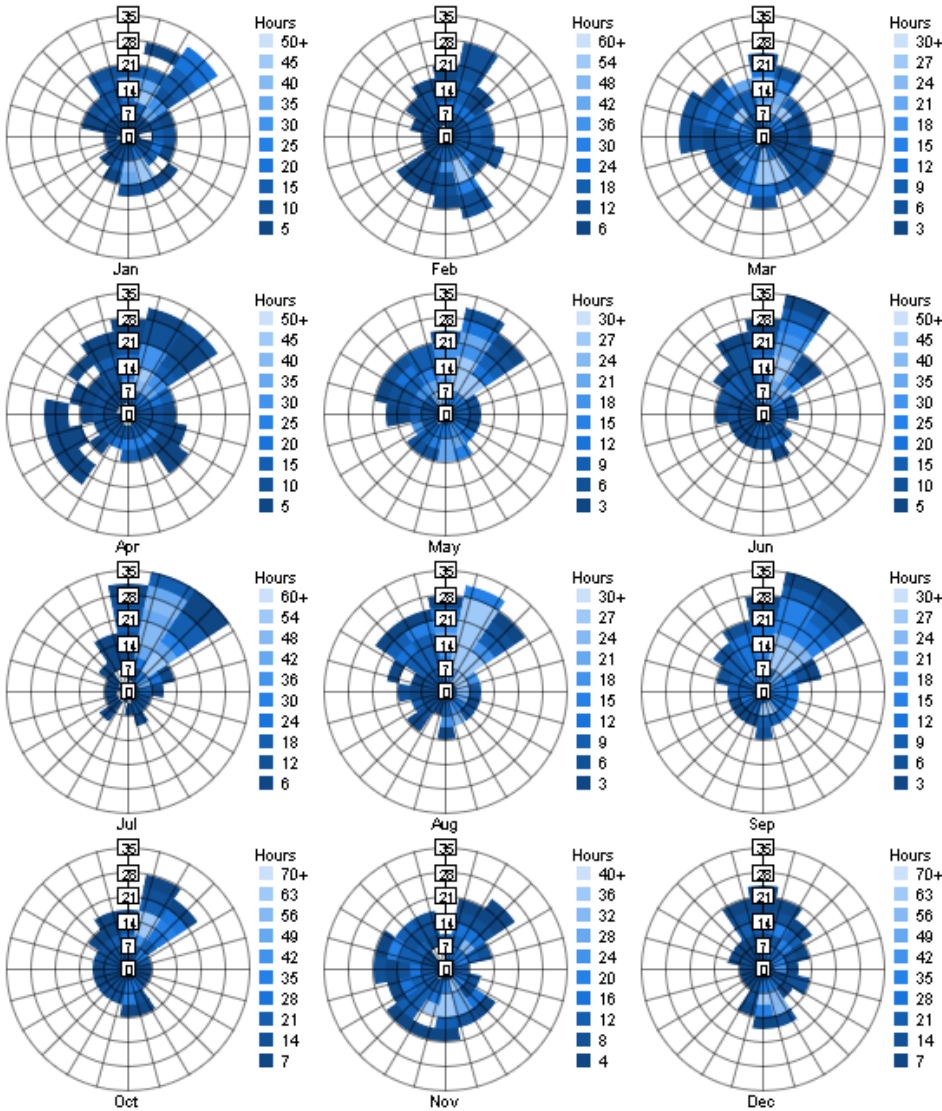
Annual Wind Rose (Speed Distribution)



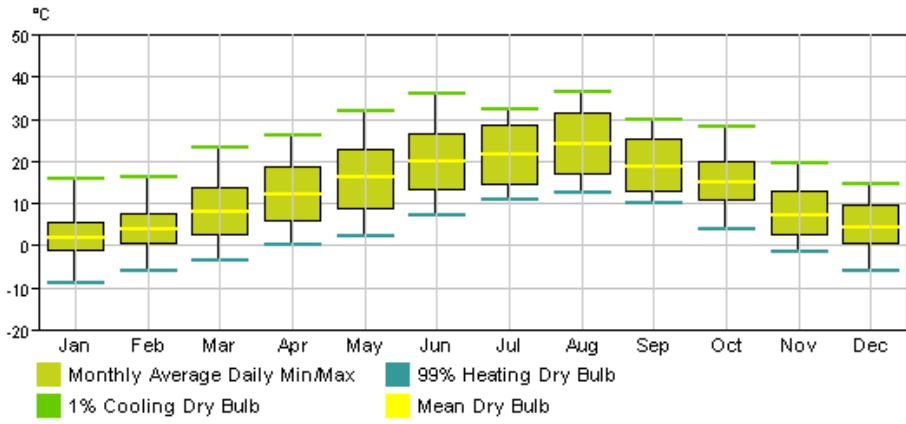
Annual Wind Rose (Frequency Distribution)



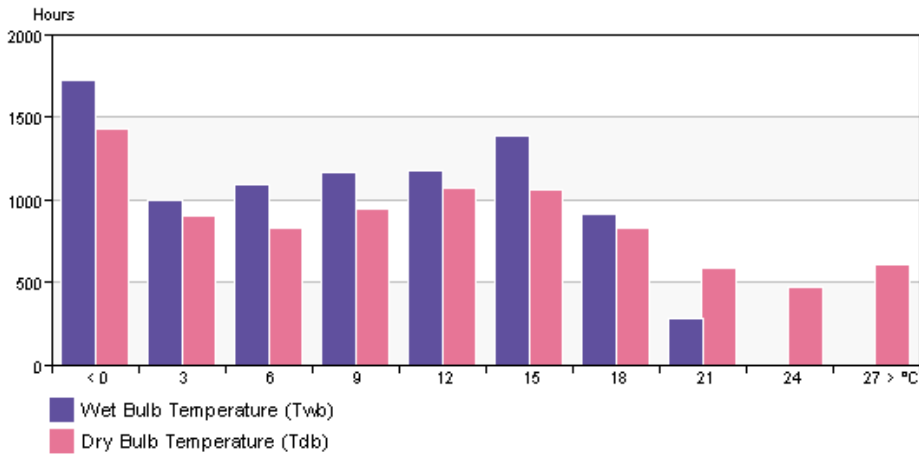
Monthly Wind Roses



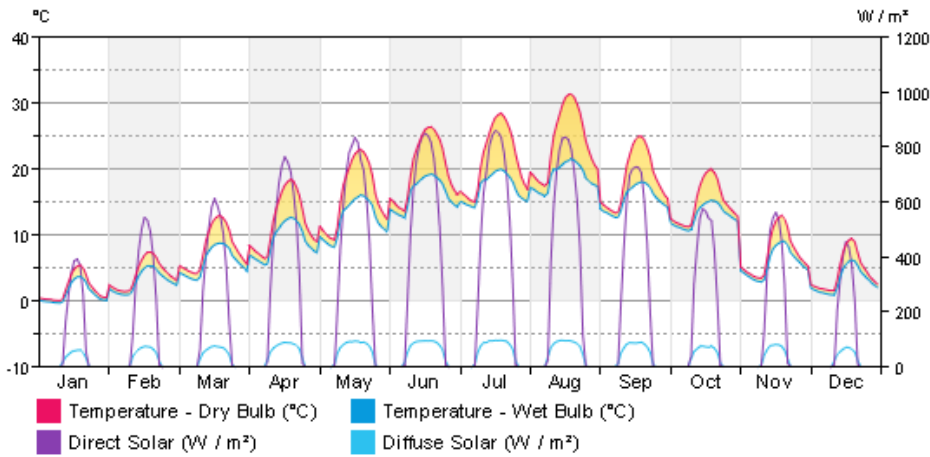
Monthly Design Data



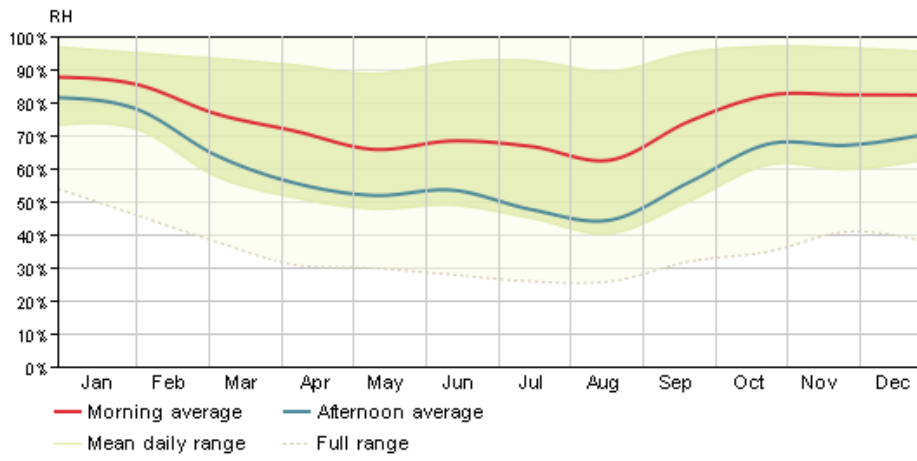
Annual Temperature Bins



Diurnal Weather Averages



Humidity



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Energy Analysis Data