

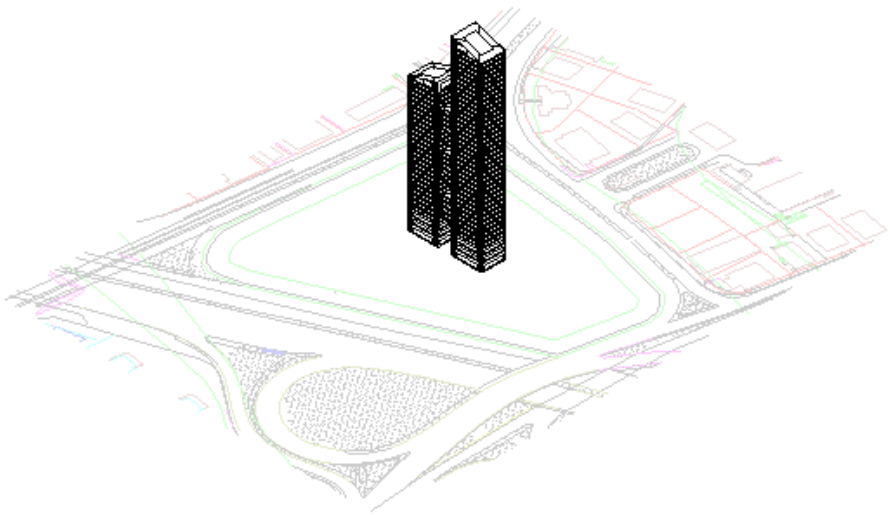
Energy Analysis Data

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Analyzed at 4/7/2017 1:33:38 AM

Energy Analysis Result



Building Performance Factors

Location:	Istanbul, Istanbul
Weather Station:	186777
Outdoor Temperature:	Max: 32°C/Min: -2°C
Floor Area:	19,890 m ²
Exterior Wall Area:	13,936 m ²
Average Lighting Power:	9.69 W / m ²
People:	796 people
Exterior Window Ratio:	0.40
Electrical Cost:	\$0.14 / kWh
Fuel Cost:	\$1.44 / Therm

Energy Use Intensity

Electricity EUI:	172 kWh / sm / yr
Fuel EUI:	274 MJ / sm / yr
Total EUI:	893 MJ / sm / yr

Life Cycle Energy Use/Cost

Life Cycle Electricity Use:	102,539,130 kWh
Life Cycle Fuel Use:	163,764,756 MJ
Life Cycle Energy Cost:	\$7,488,194

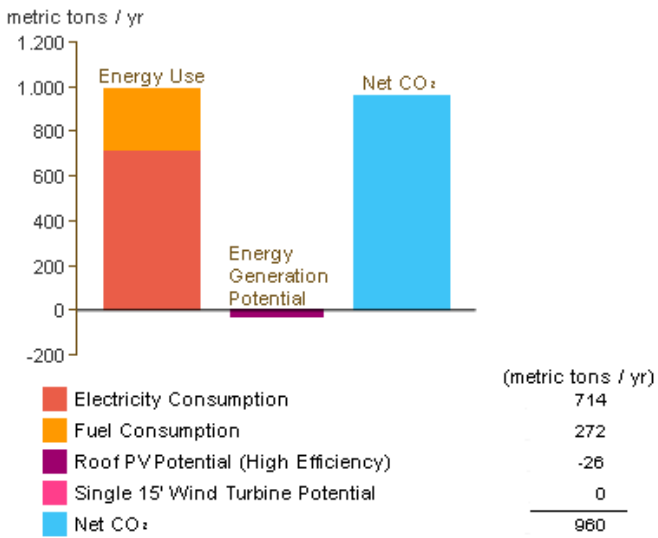
*30-year life and 6.1% discount rate for costs

Renewable Energy Potential

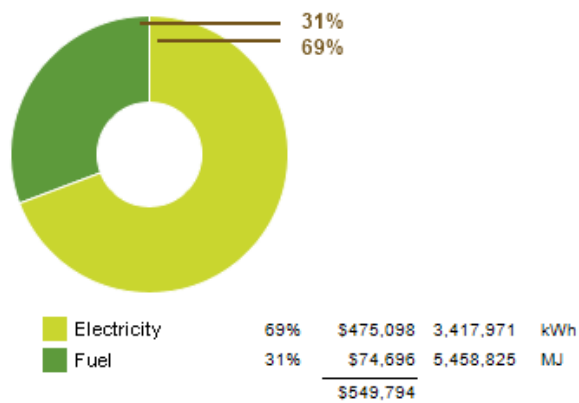
Roof Mounted PV System (Low efficiency):	42,678 kWh / yr
Roof Mounted PV System (Medium efficiency):	85,356 kWh / yr
Roof Mounted PV System (High efficiency):	128,033 kWh / yr
Single 15' Wind Turbine Potential:	2,154 kWh / yr

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

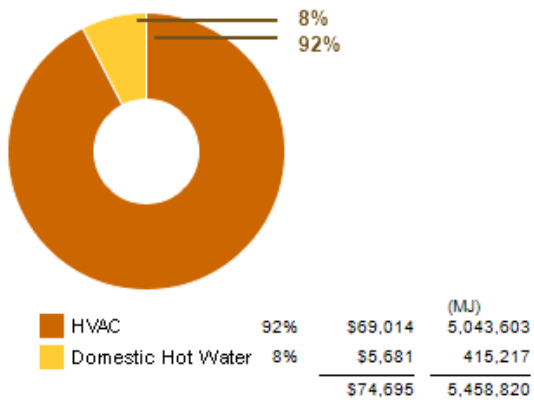
Annual Carbon Emissions



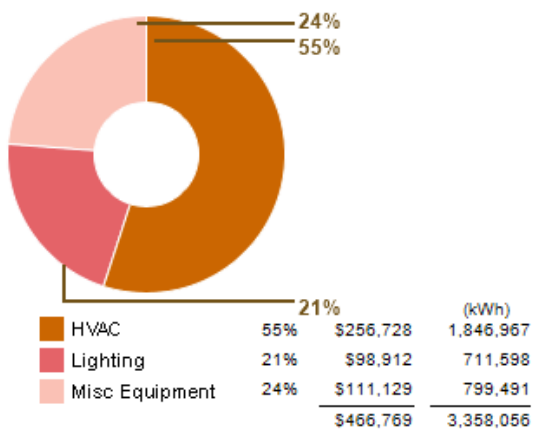
Annual Energy Use/Cost



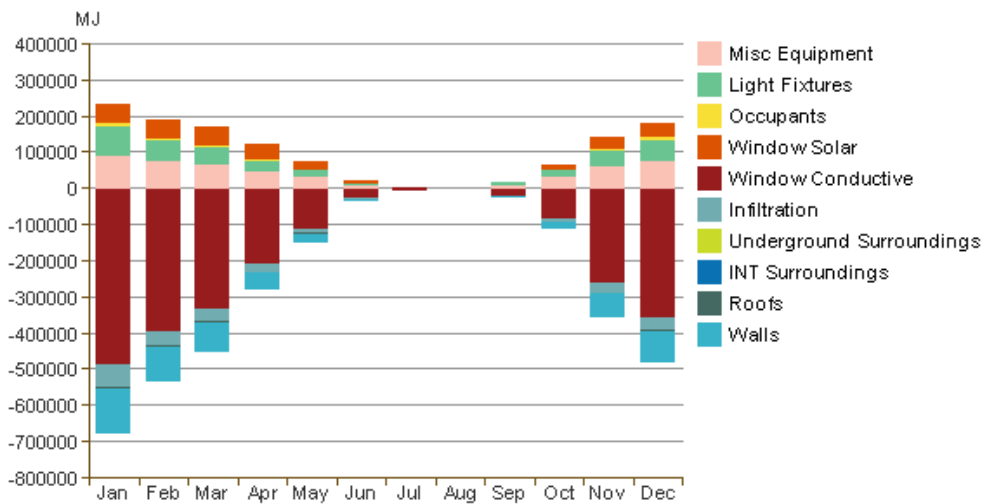
Energy Use: Fuel



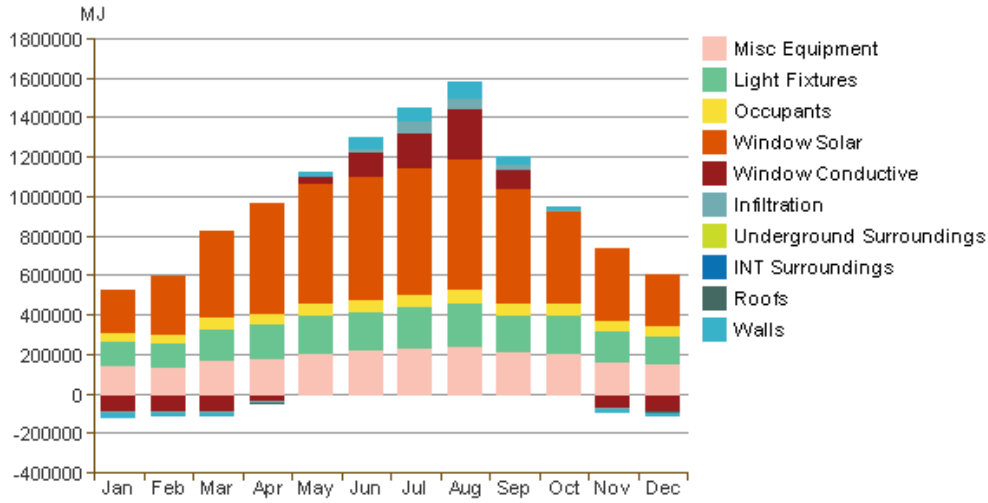
Energy Use: Electricity



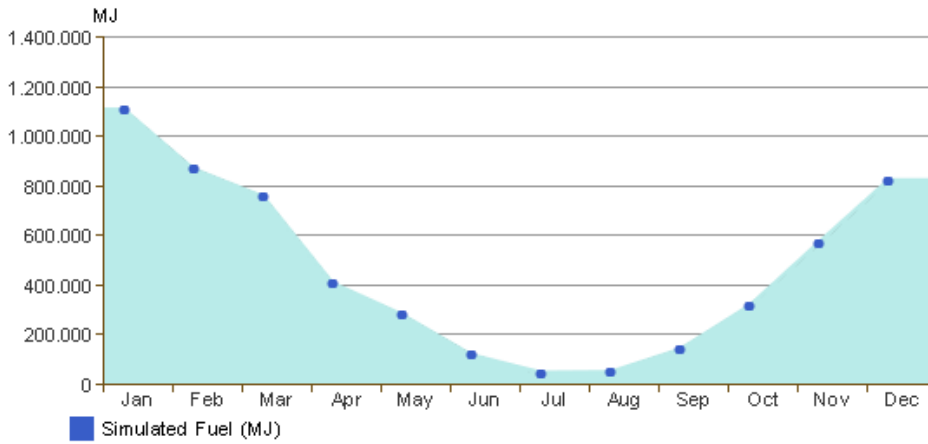
Monthly Heating Load



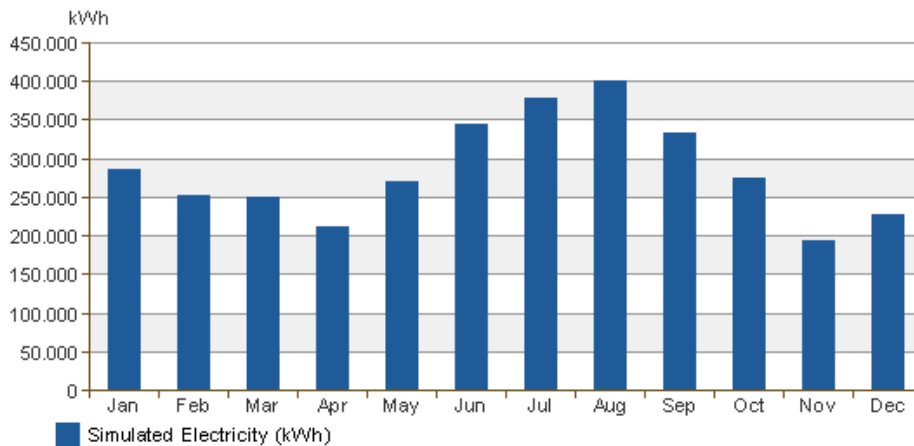
Monthly Cooling Load



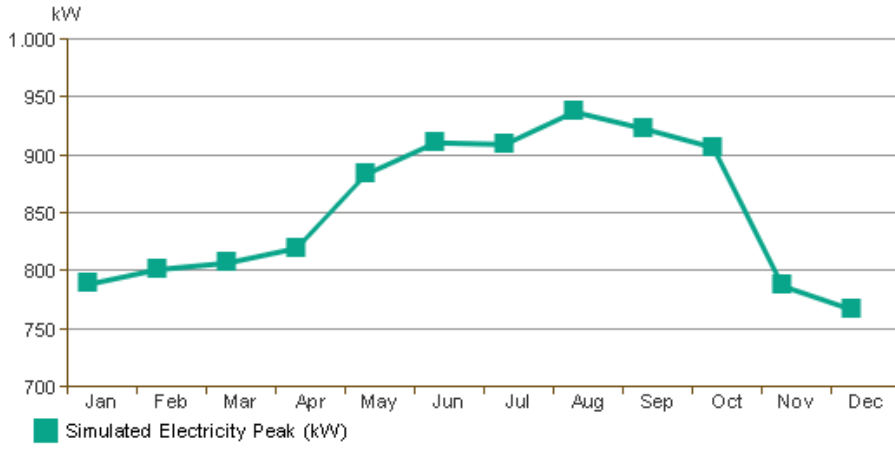
Monthly Fuel Consumption



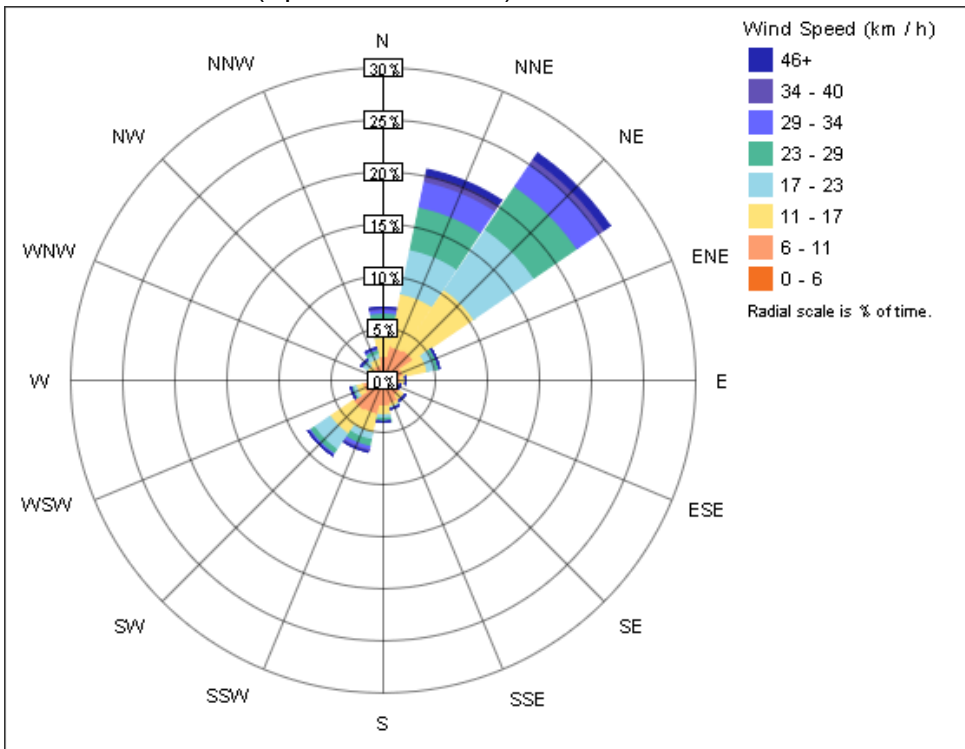
Monthly Electricity Consumption



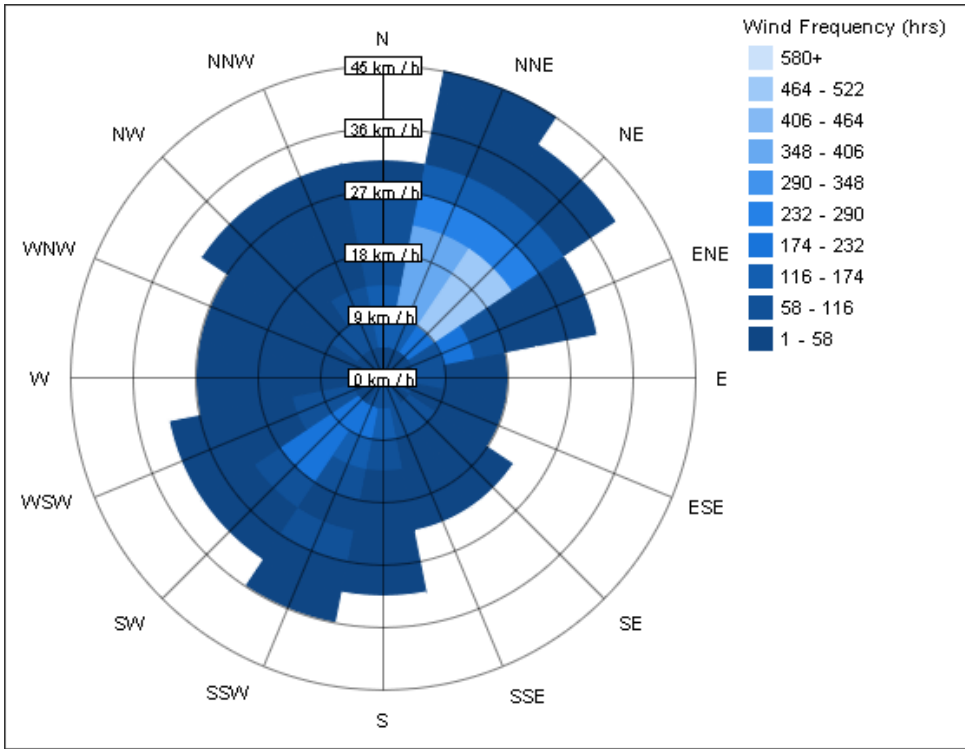
Monthly Peak Demand



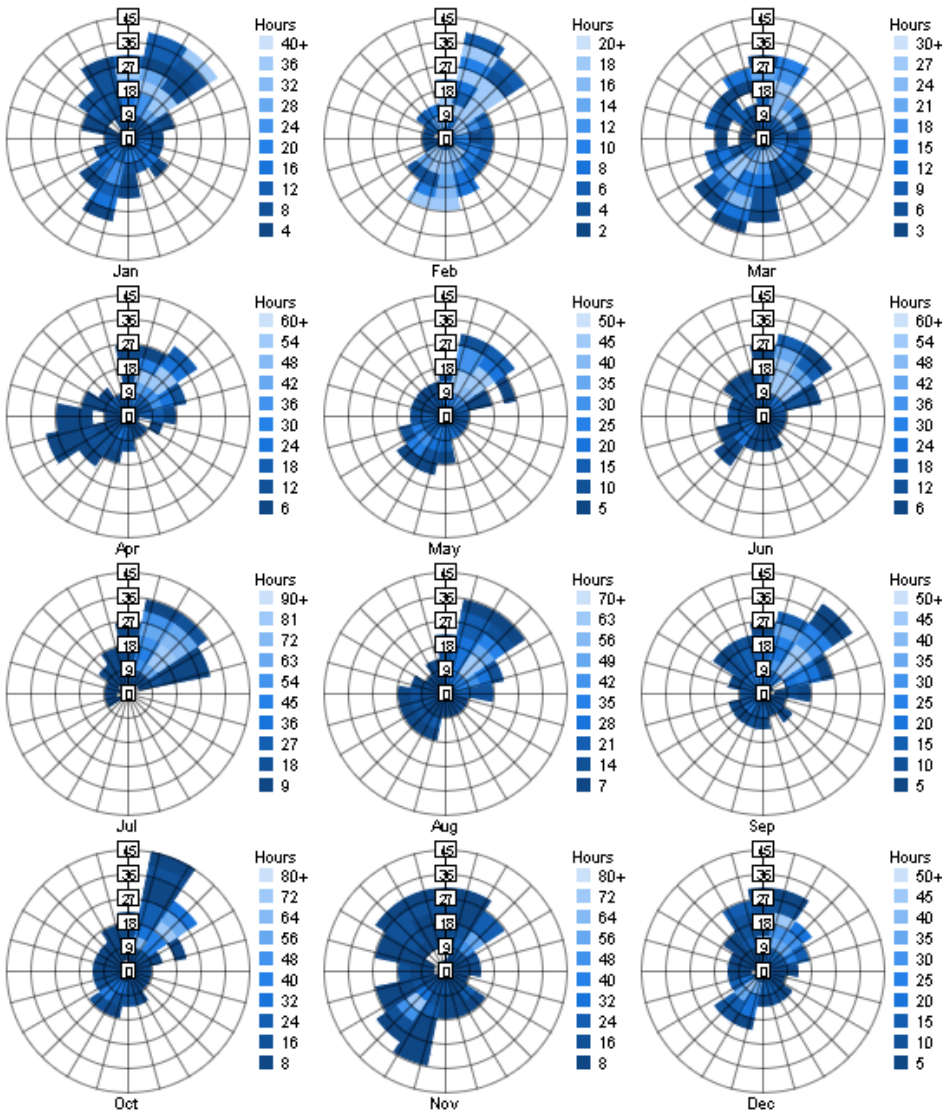
Annual Wind Rose (Speed Distribution)



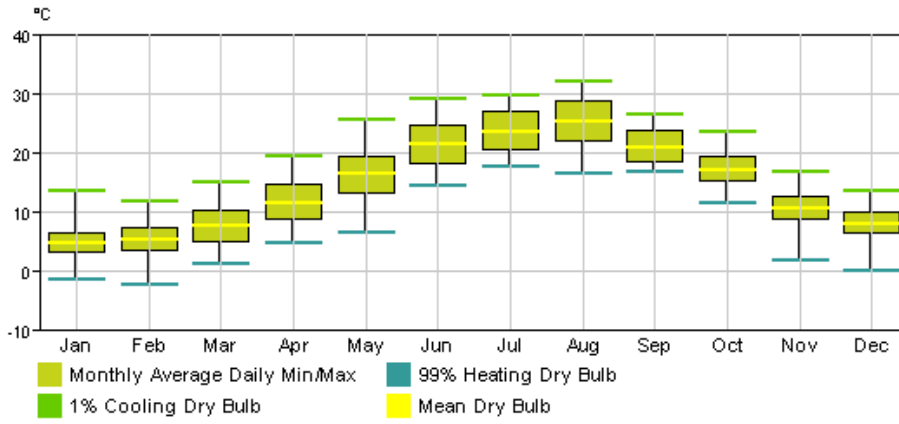
Annual Wind Rose (Frequency Distribution)



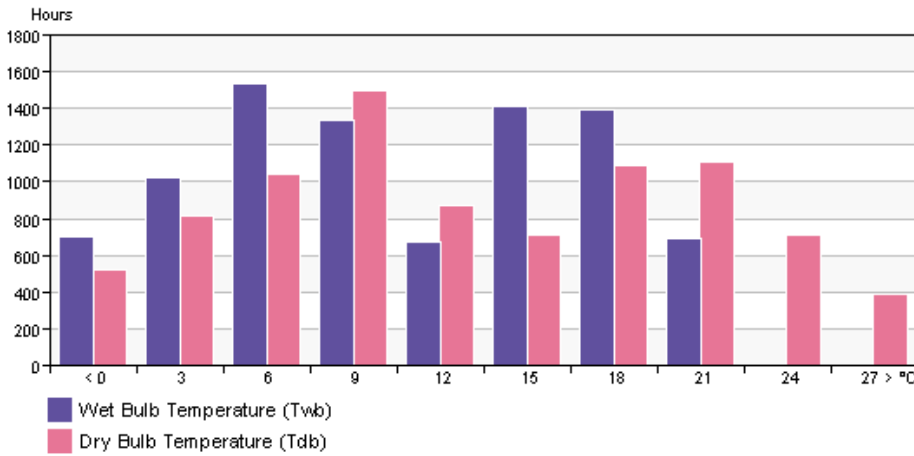
Monthly Wind Roses



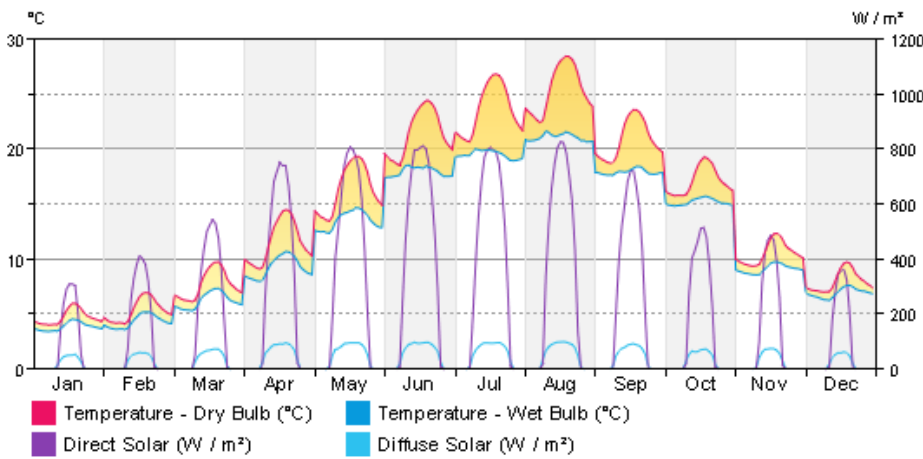
Monthly Design Data



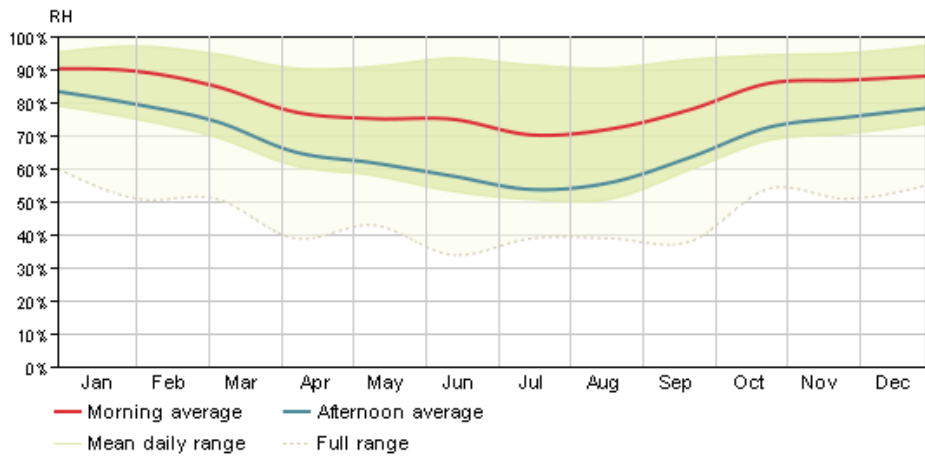
Annual Temperature Bins



Diurnal Weather Averages



Humidity



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Energy Analysis Data