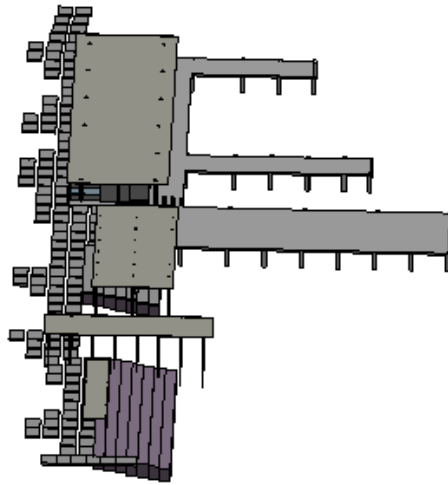




Energy Analysis Result



Building Performance Factors

Location:	Izmir, Turkey
Weather Station:	185317
Outdoor Temperature:	Max: 38°C/Min: -5°C
Floor Area:	69 m ²
Exterior Wall Area:	75 m ²
Average Lighting Power:	10.87 W / m ²
People:	33 people
Exterior Window Ratio:	0.19
Electrical Cost:	\$0.14 / kWh
Fuel Cost:	\$1.44 / Therm

Energy Use Intensity

Electricity EUI:	178 kWh / sm / yr
Fuel EUI:	732 MJ / sm / yr
Total EUI:	1,374 MJ / sm / yr

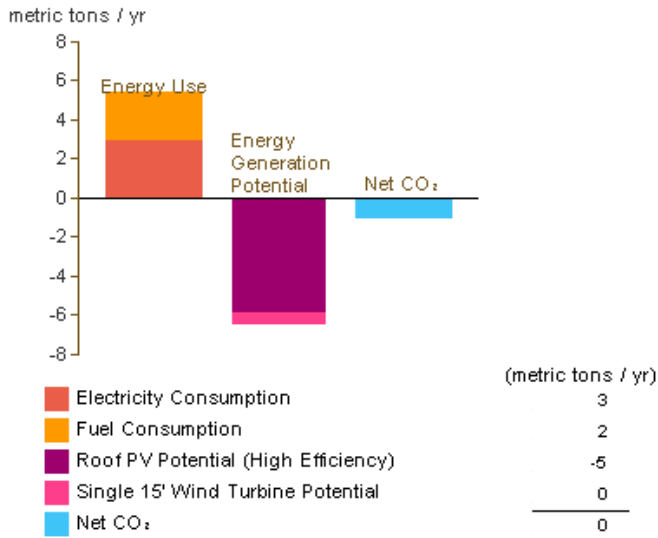
Life Cycle Energy Use/Cost

Life Cycle Electricity Use:	352,219 kWh
Life Cycle Fuel Use:	1,447,474 MJ
Life Cycle Energy Cost:	\$31,219
*30-year life and 6.1% discount rate for costs	

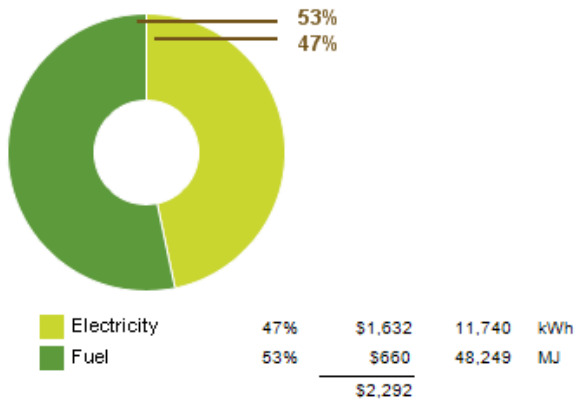
Renewable Energy Potential

Roof Mounted PV System (Low efficiency):	7,543 kWh / yr
Roof Mounted PV System (Medium efficiency):	15,085 kWh / yr
Roof Mounted PV System (High efficiency):	22,628 kWh / yr
Single 15' Wind Turbine Potential:	2,350 kWh / yr
*PV efficiencies are assumed to be 5%, 10% and 15% for low, medium and high efficiency systems	

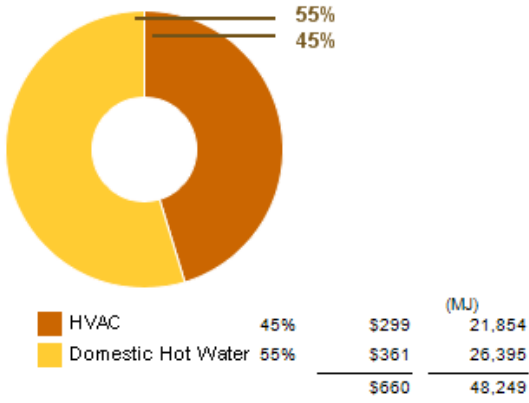
Annual Carbon Emissions



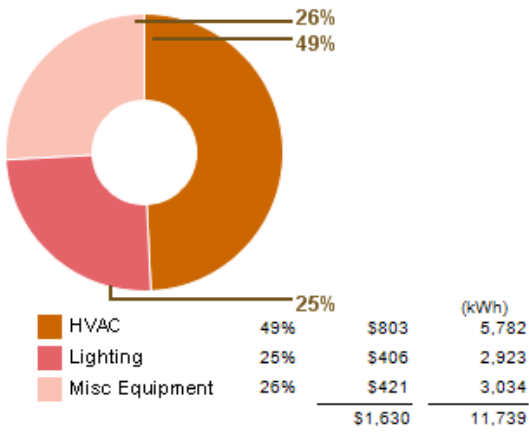
Annual Energy Use/Cost



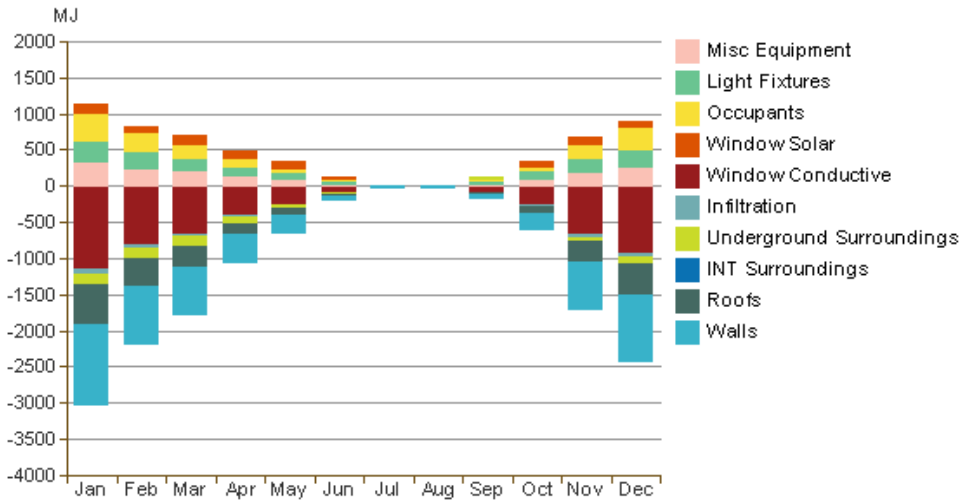
Energy Use: Fuel



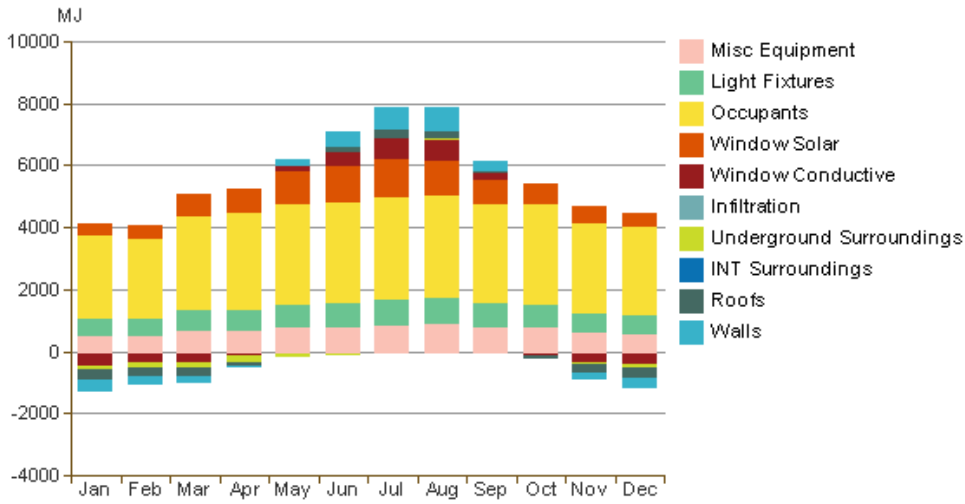
Energy Use: Electricity



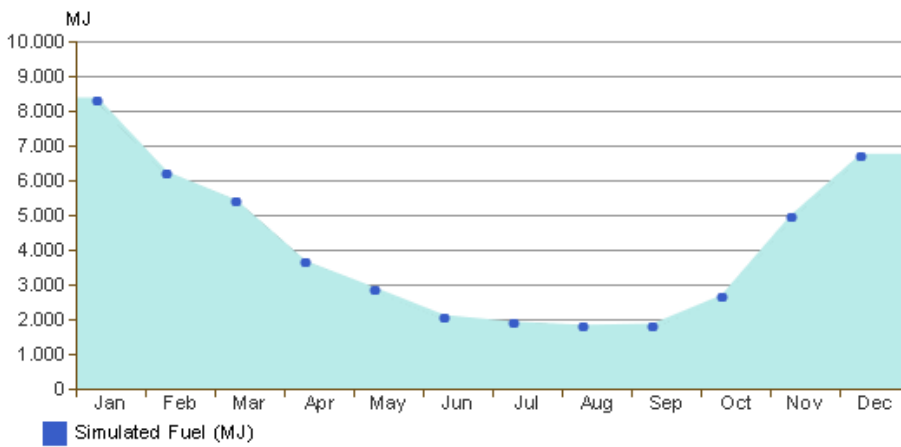
Monthly Heating Load



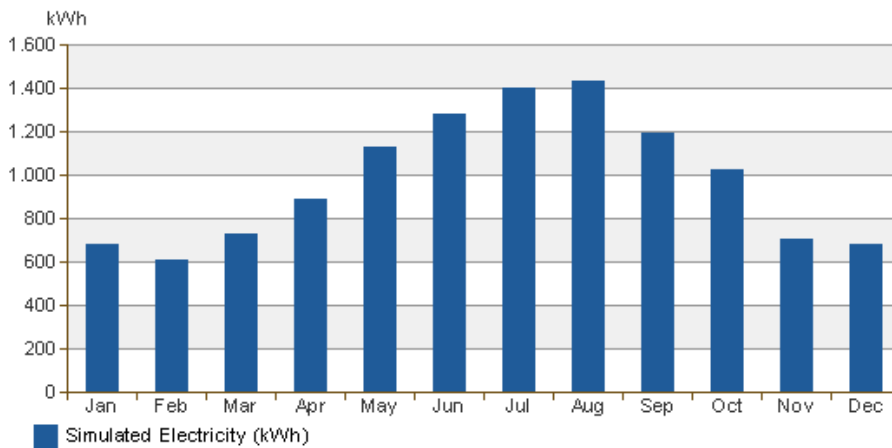
Monthly Cooling Load



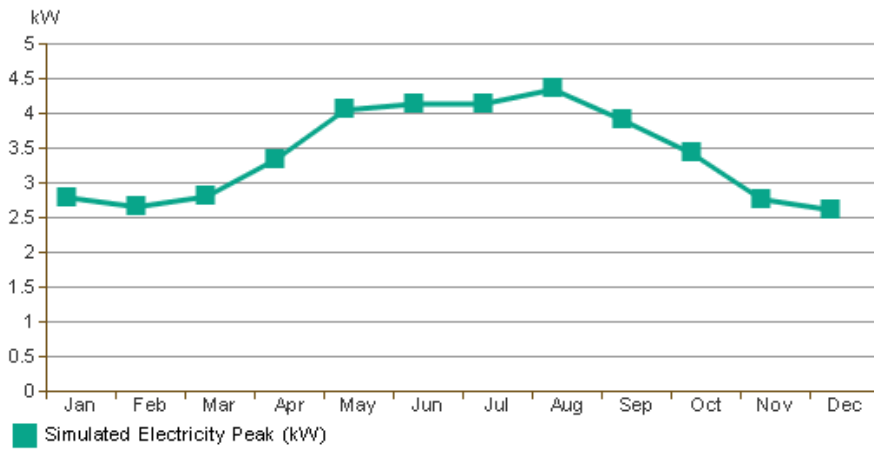
Monthly Fuel Consumption



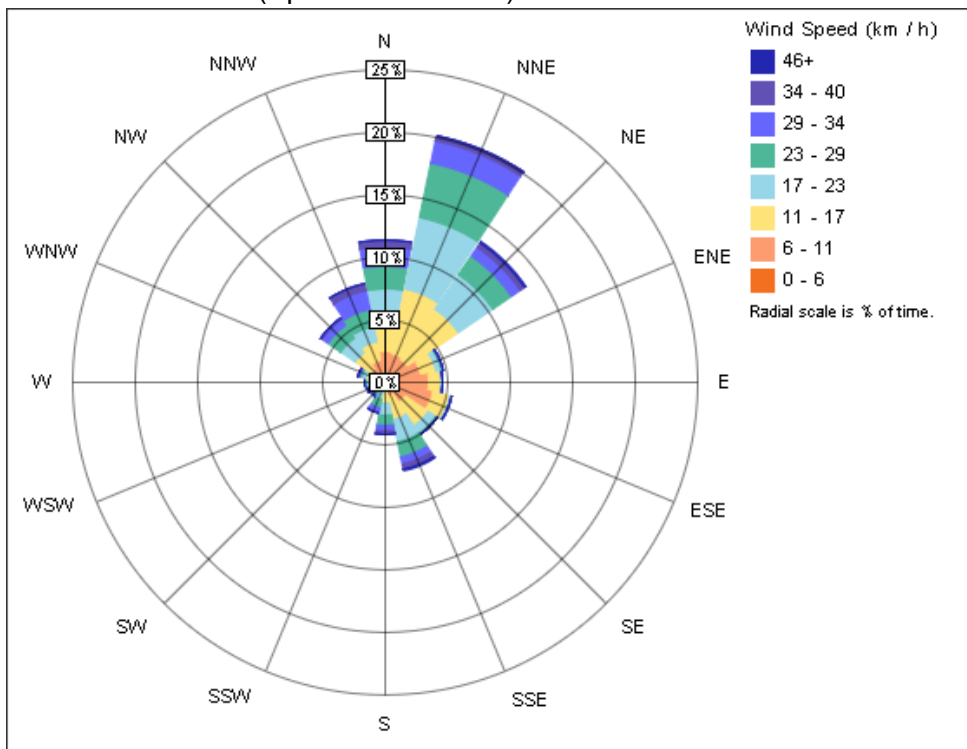
Monthly Electricity Consumption



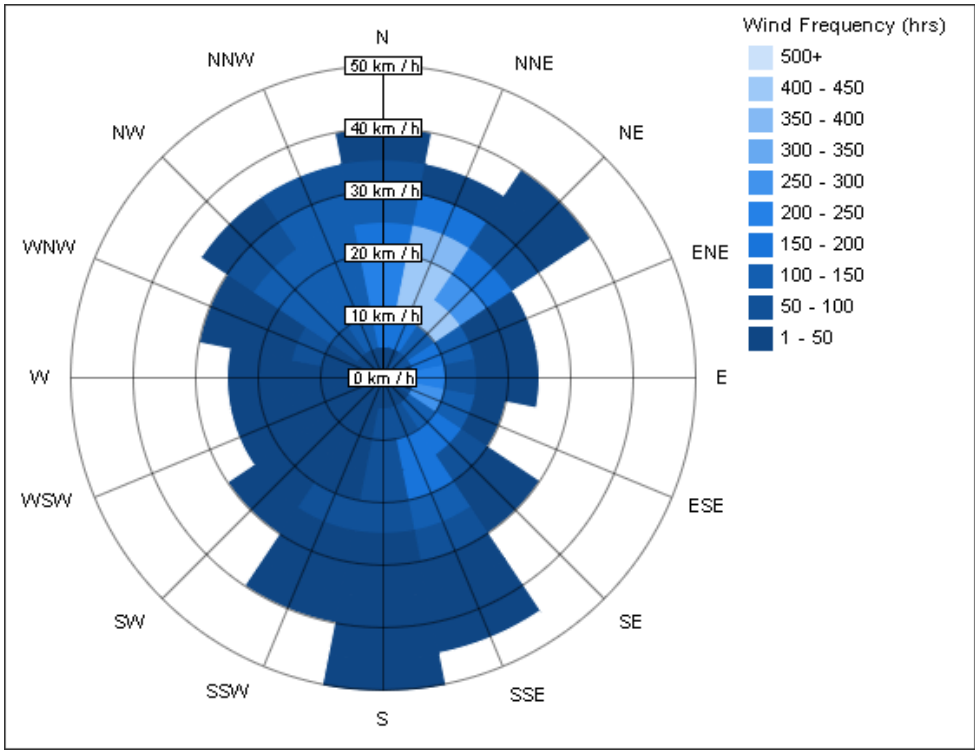
Monthly Peak Demand



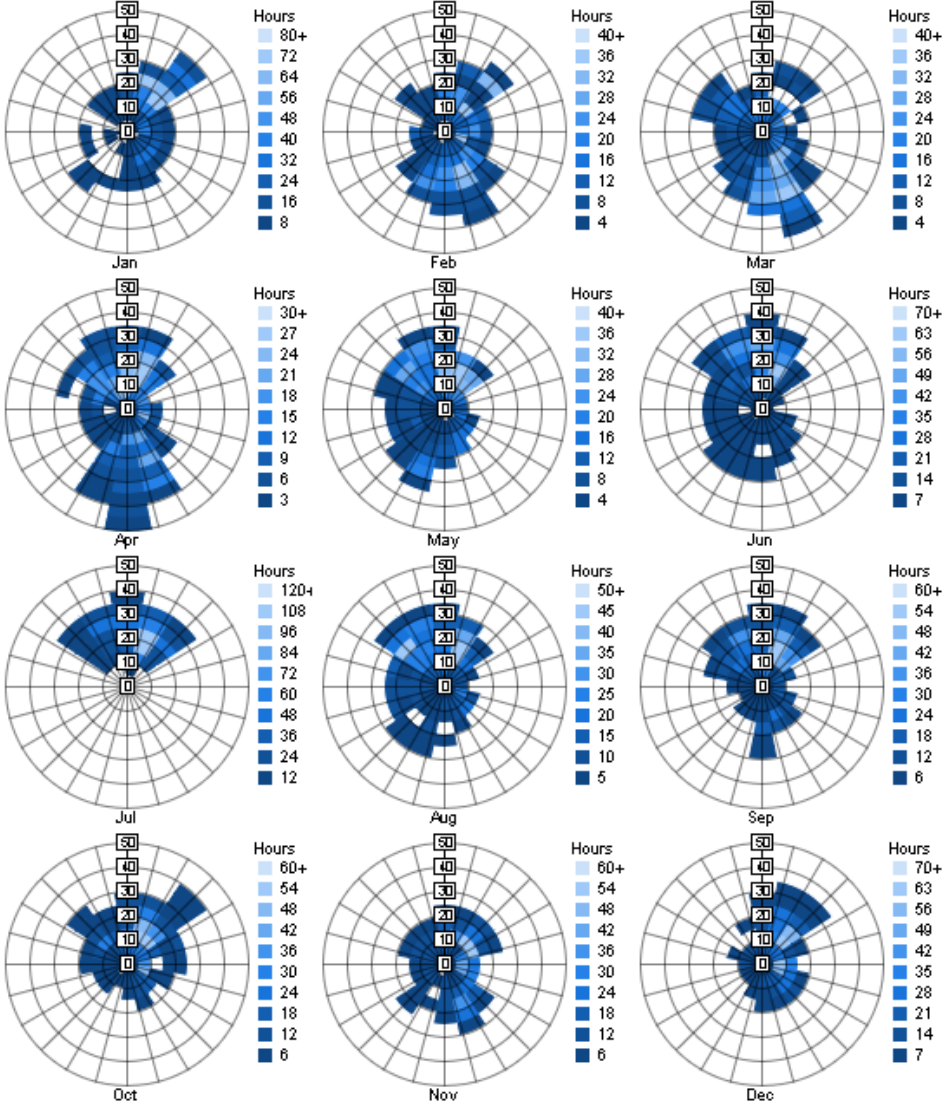
Annual Wind Rose (Speed Distribution)



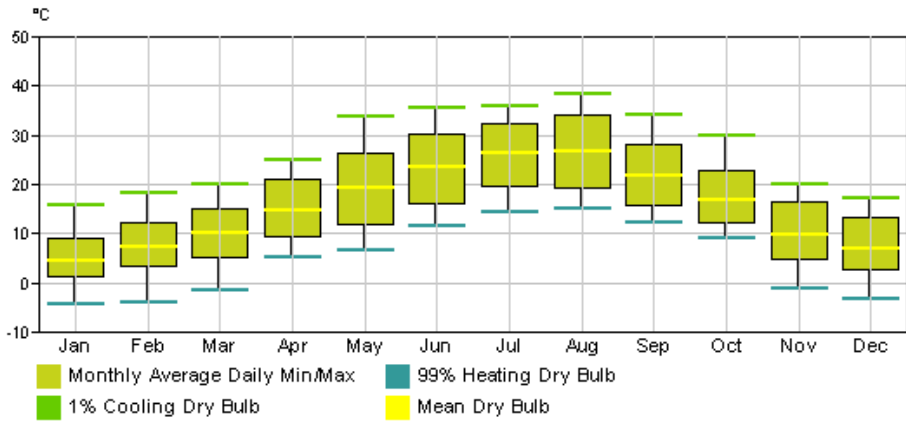
Annual Wind Rose (Frequency Distribution)



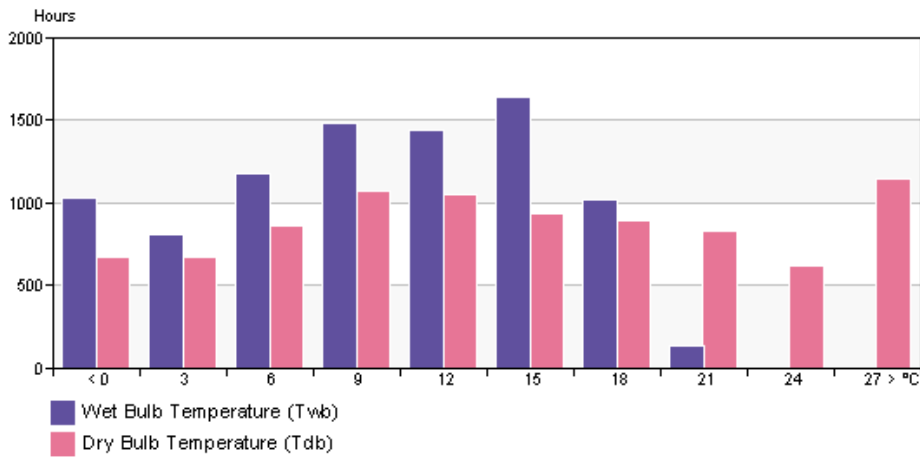
Monthly Wind Roses



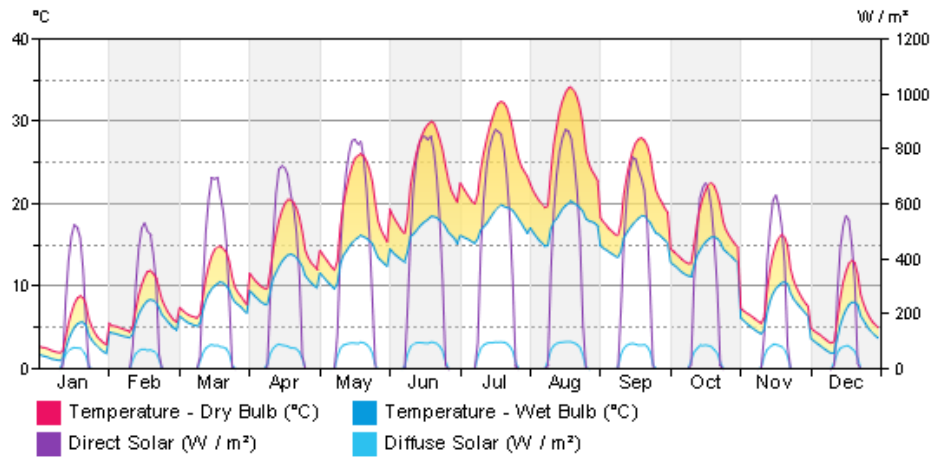
Monthly Design Data



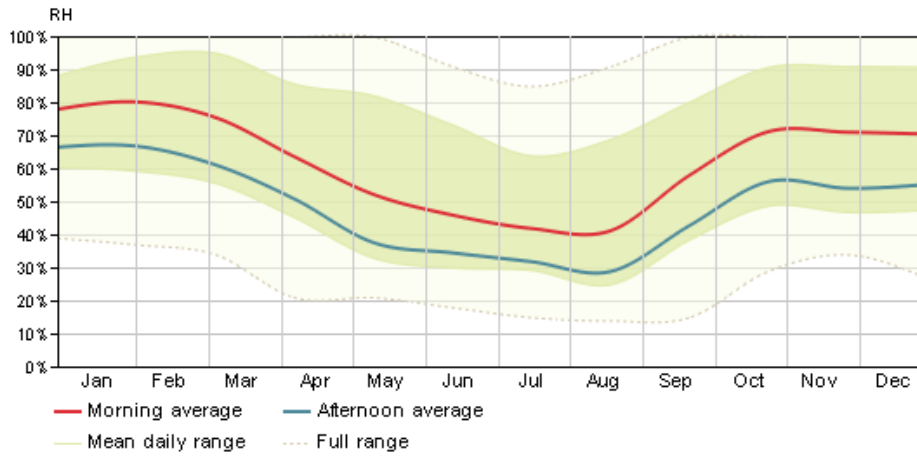
Annual Temperature Bins



Diurnal Weather Averages



Humidity



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Energy Analysis Data