



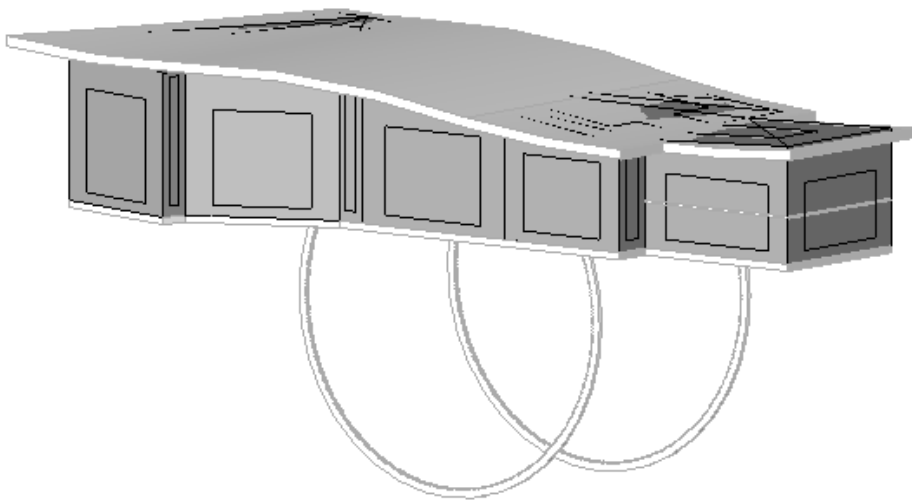
Project6

Project6 Analysis

Analyzed at 12/27/2015 4:05:07 PM

Energy Analysis Result

812399



Building Performance Factors

Location:	40.995849609375,29.0315093994141
Weather Station:	186777
Outdoor Temperature:	Max: 32°C/Min: -2°C
Floor Area:	997 m ²
Exterior Wall Area:	1,477 m ²
Average Lighting Power:	12.92 W / m ²
People:	50 people
Exterior Window Ratio:	0.42
Electrical Cost:	\$0.14 / kWh
Fuel Cost:	\$1.44 / Therm

Energy Use Intensity

Electricity EUI:	179 kWh / sm / yr
Fuel EUI:	605 MJ / sm / yr
Total EUI:	1,249 MJ / sm / yr

Life Cycle Energy Use/Cost

Life Cycle Electricity Use:	5,347,260 kWh
Life Cycle Fuel Use:	18,106,189 MJ
Life Cycle Energy Cost:	\$449,926

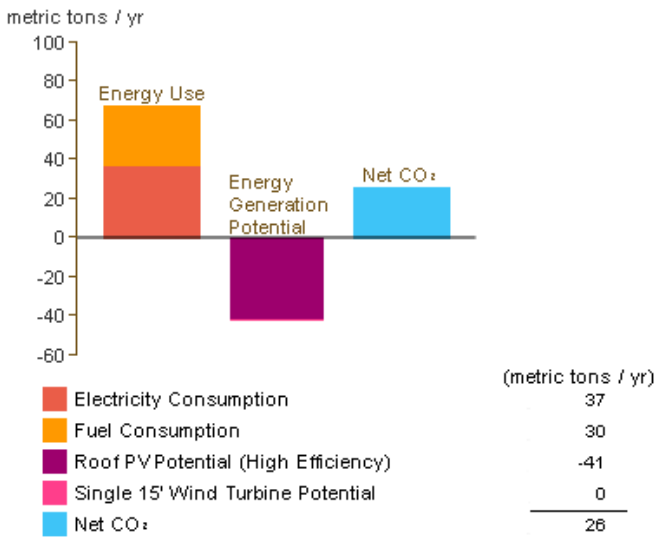
*30-year life and 6.1% discount rate for costs

Renewable Energy Potential

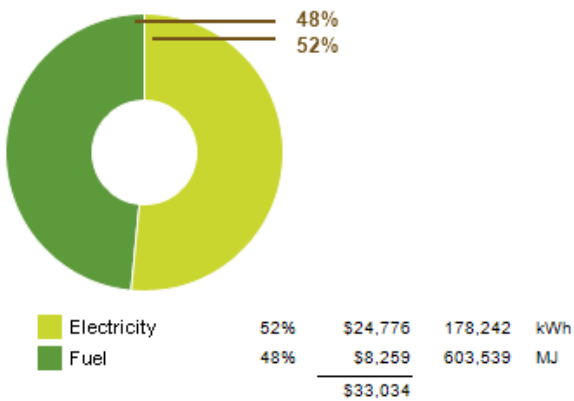
Roof Mounted PV System (Low efficiency):	66,465 kWh / yr
Roof Mounted PV System (Medium efficiency):	132,930 kWh / yr
Roof Mounted PV System (High efficiency):	199,395 kWh / yr
Single 15' Wind Turbine Potential:	2,154 kWh / yr

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

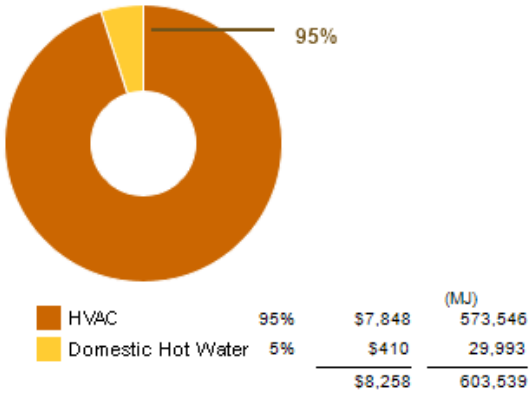
Annual Carbon Emissions



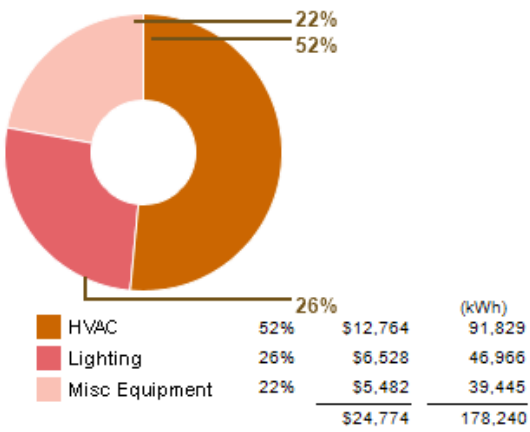
Annual Energy Use/Cost



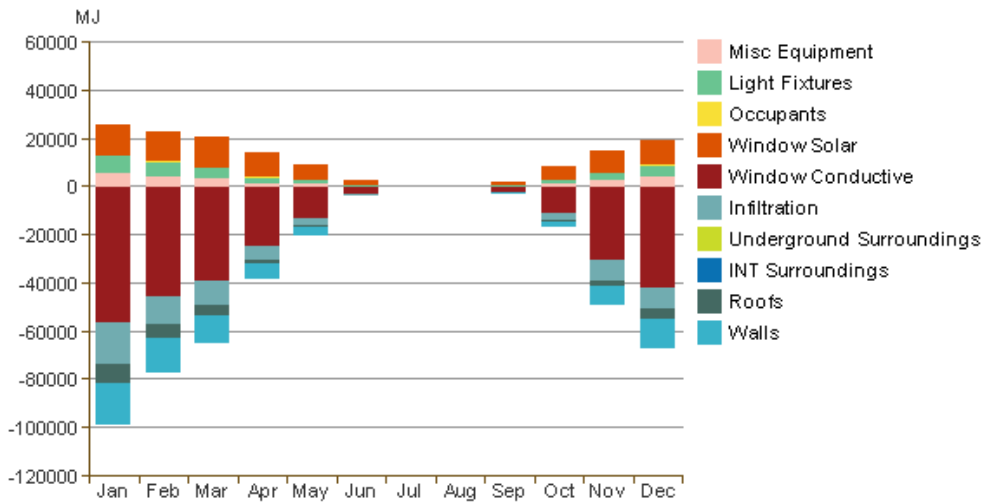
Energy Use: Fuel



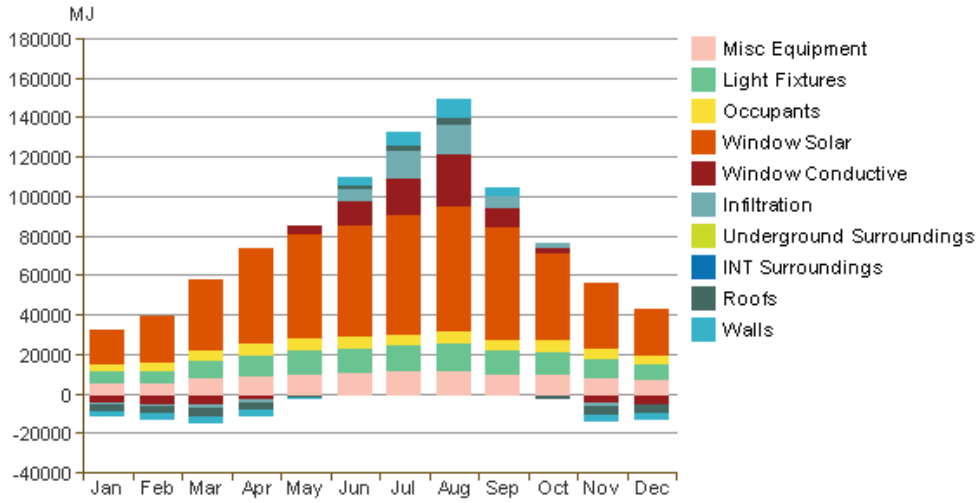
Energy Use: Electricity



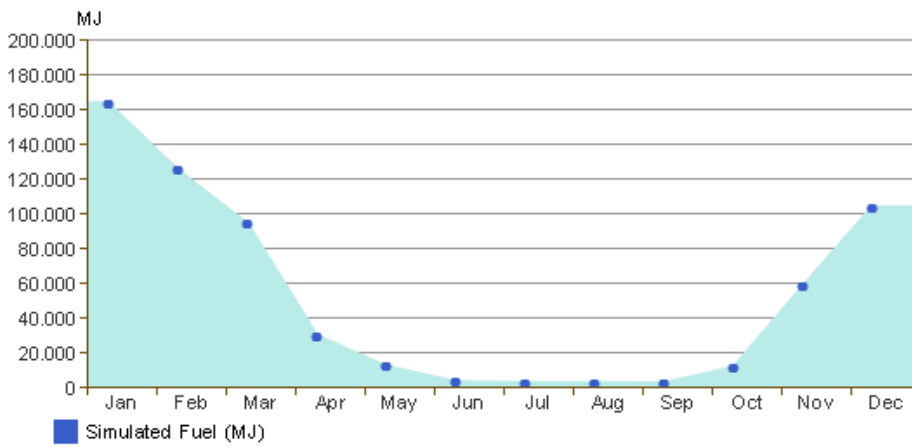
Monthly Heating Load



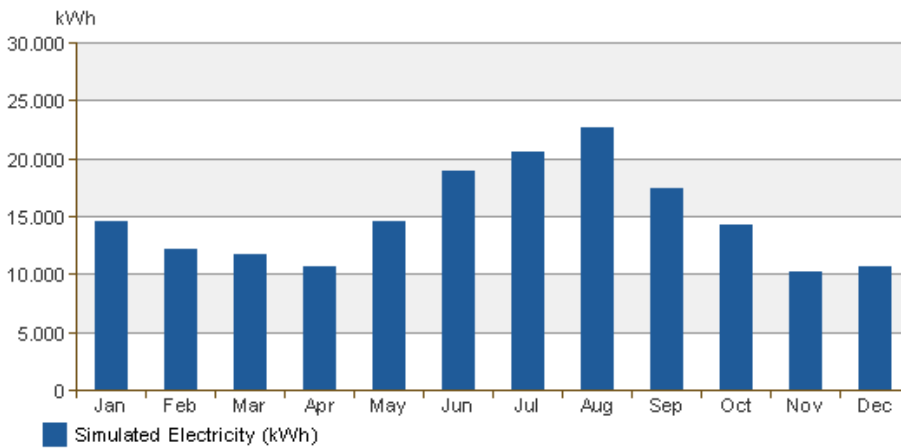
Monthly Cooling Load



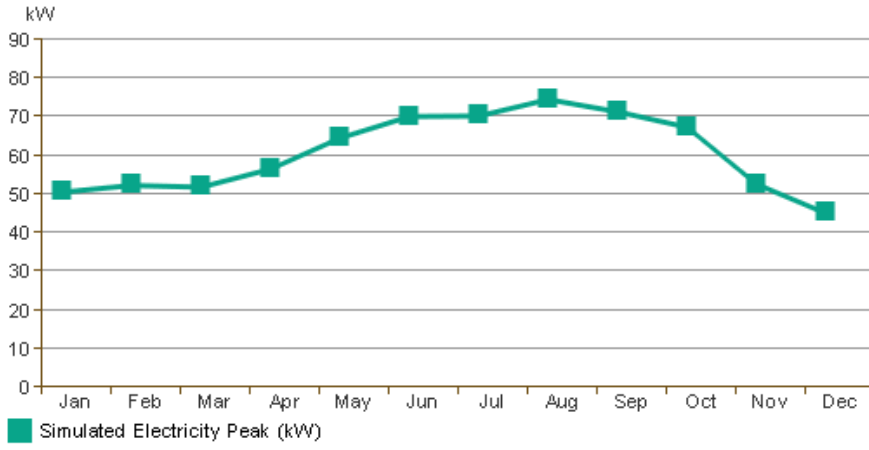
Monthly Fuel Consumption



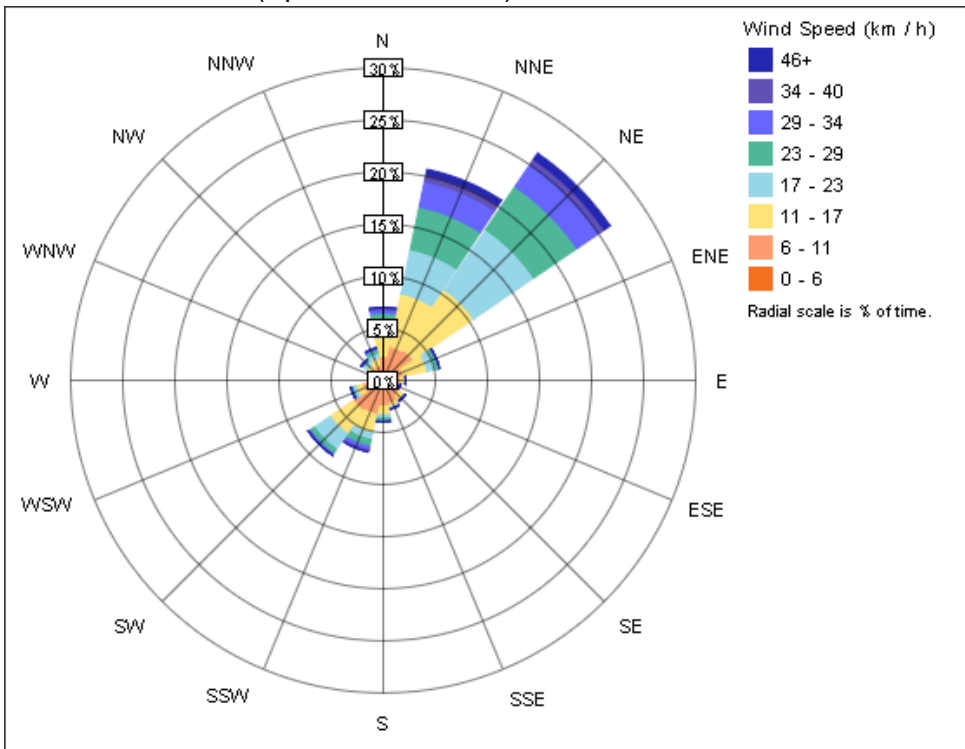
Monthly Electricity Consumption



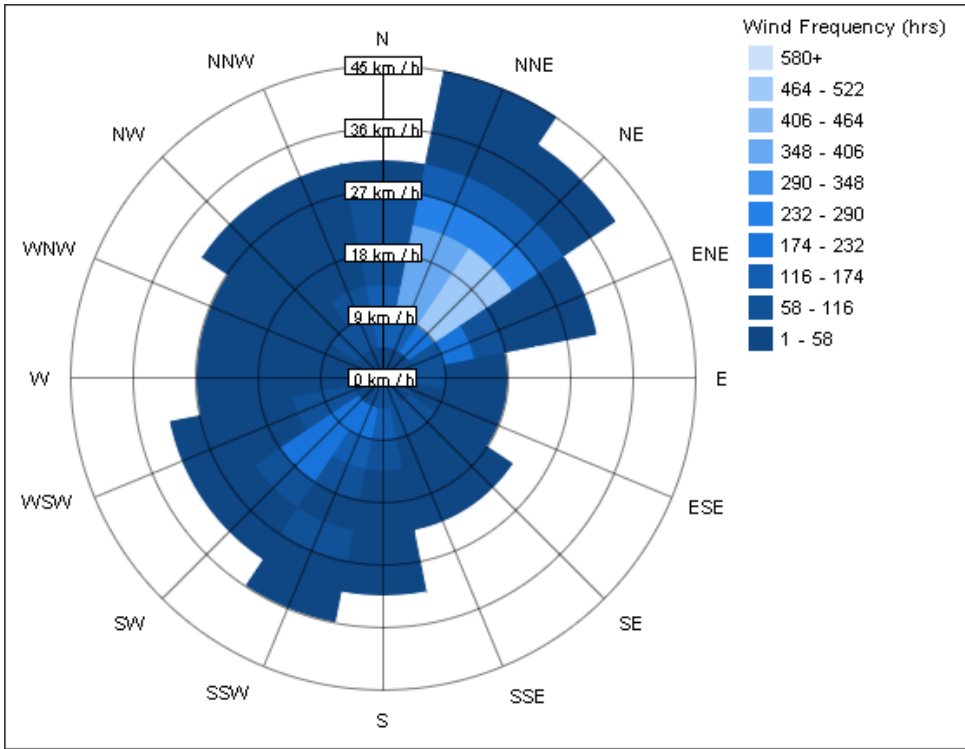
Monthly Peak Demand



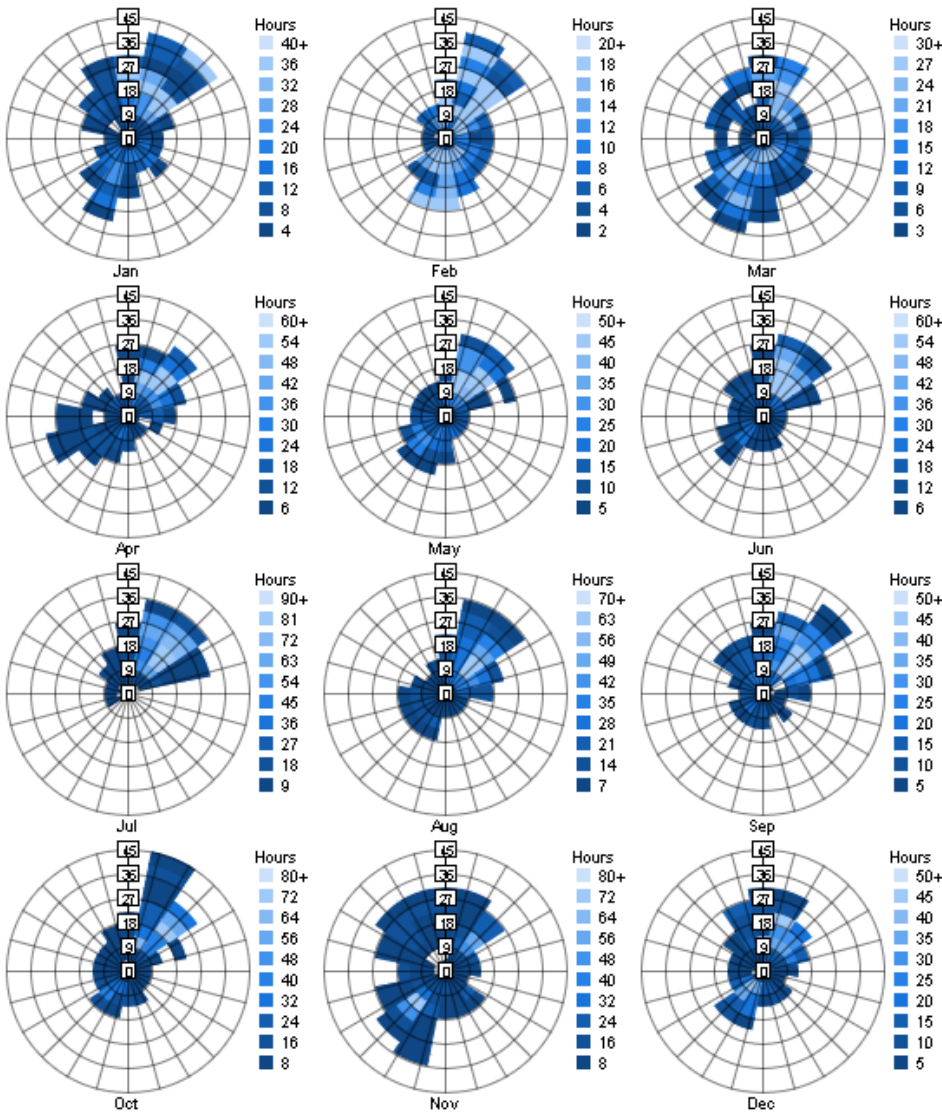
Annual Wind Rose (Speed Distribution)



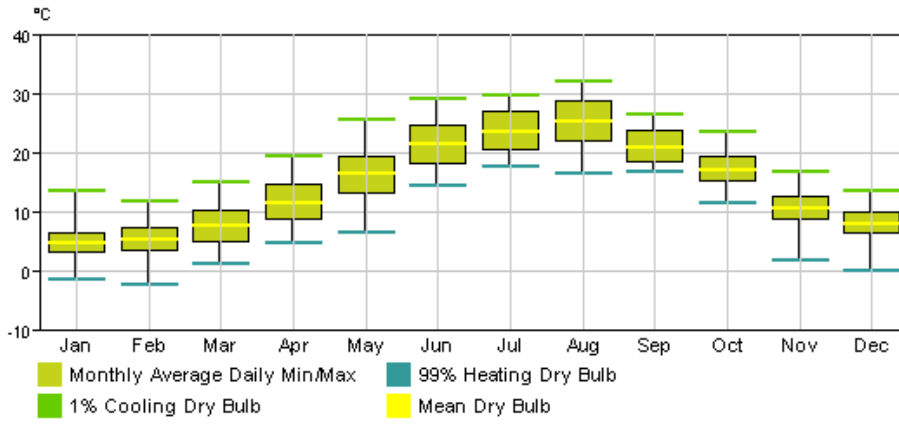
Annual Wind Rose (Frequency Distribution)



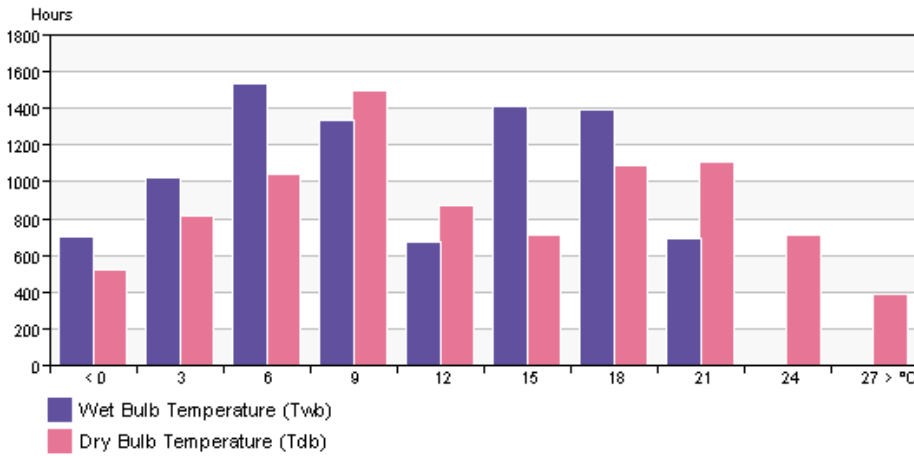
Monthly Wind Roses



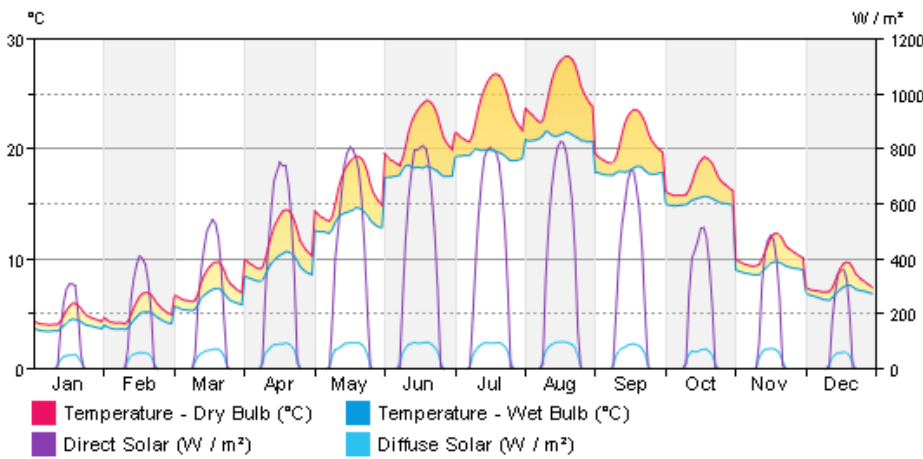
Monthly Design Data



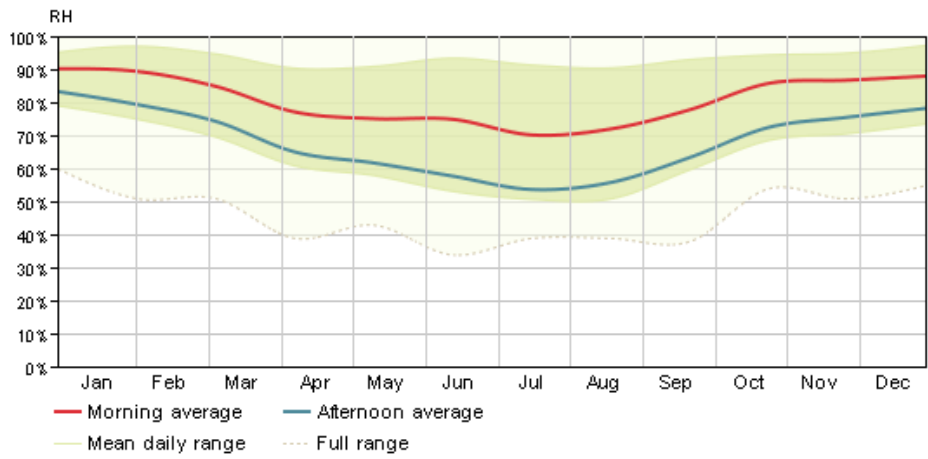
Annual Temperature Bins



Diurnal Weather Averages



Humidity



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Energy Analysis Data