

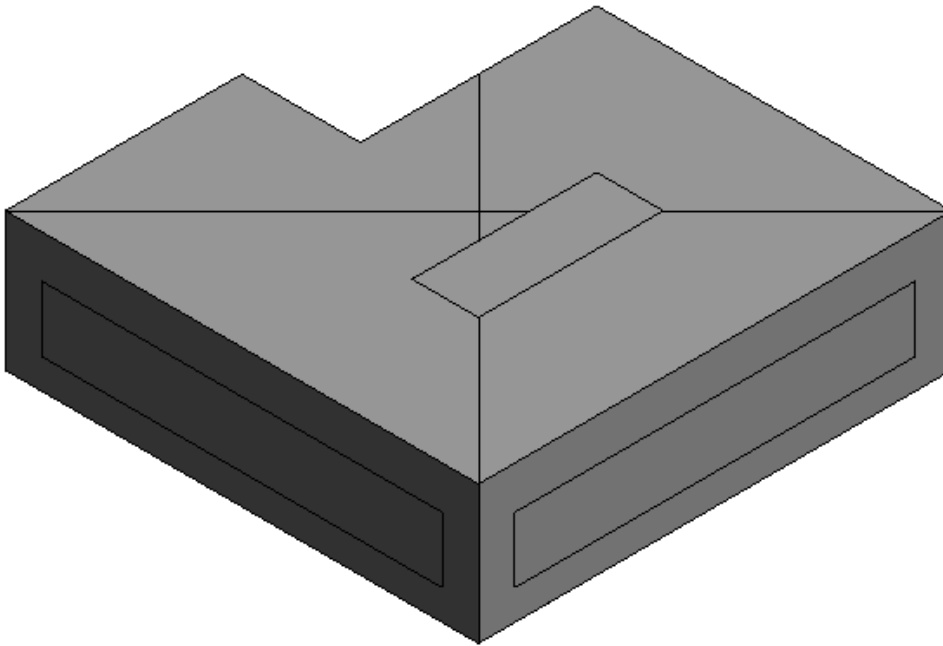


Project1 (1)

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Analyzed at 12/21/2014 3:41:07 AM

Energy Analysis Result



Building Performance Factors

Location:	40,969165802002,29,0489521026611
Weather Station:	1244216
Outdoor Temperature:	Max: 31°C/Min: -2°C
Floor Area:	126 m ²
Exterior Wall Area:	168 m ²
Average Lighting Power:	10.87 W / m ²
People:	63 people
Exterior Window Ratio:	0.40
Electrical Cost:	\$0.14 / kWh
Fuel Cost:	\$1.44 / Therm

Energy Use Intensity

Electricity EUI:	229 kWh / sm / yr
Fuel EUI:	943 MJ / sm / yr
Total EUI:	1,766 MJ / sm / yr

Life Cycle Energy Use/Cost

Life Cycle Electricity Use:	863,907 kWh
Life Cycle Fuel Use:	3,566,046 MJ
Life Cycle Energy Cost:	\$76,671

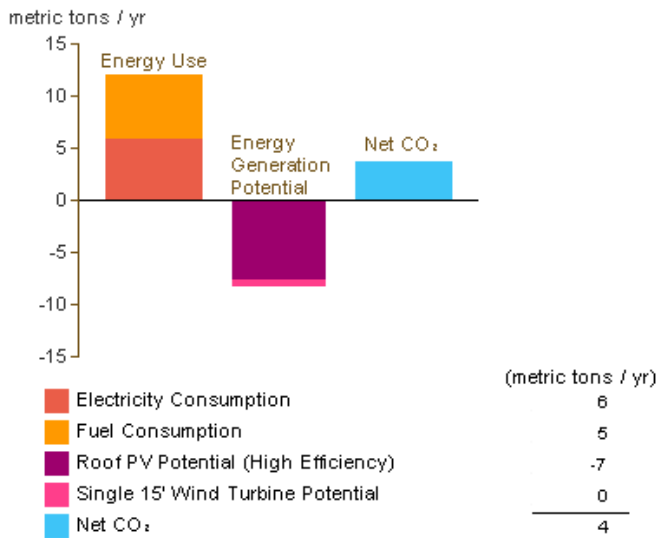
*30-year life and 6.1% discount rate for costs

Renewable Energy Potential

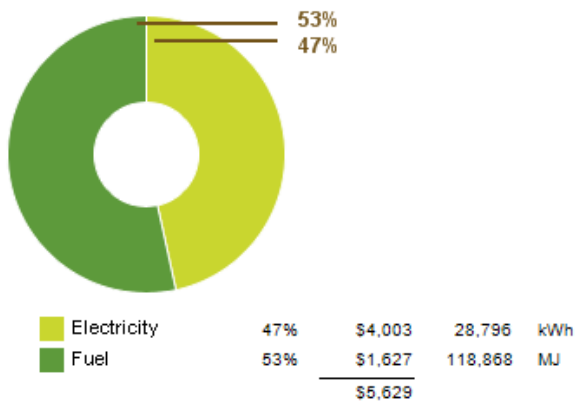
Roof Mounted PV System (Low efficiency):	12,069 kWh / yr
Roof Mounted PV System (Medium efficiency):	24,138 kWh / yr
Roof Mounted PV System (High efficiency):	36,206 kWh / yr
Single 15' Wind Turbine Potential:	3,064 kWh / yr

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

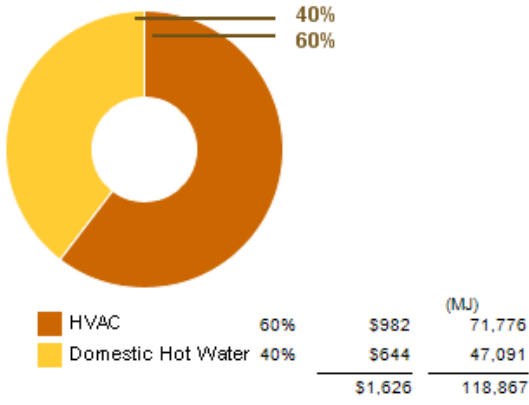
Annual Carbon Emissions



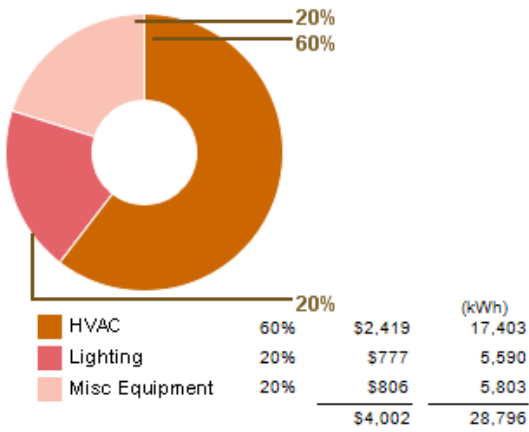
Annual Energy Use/Cost



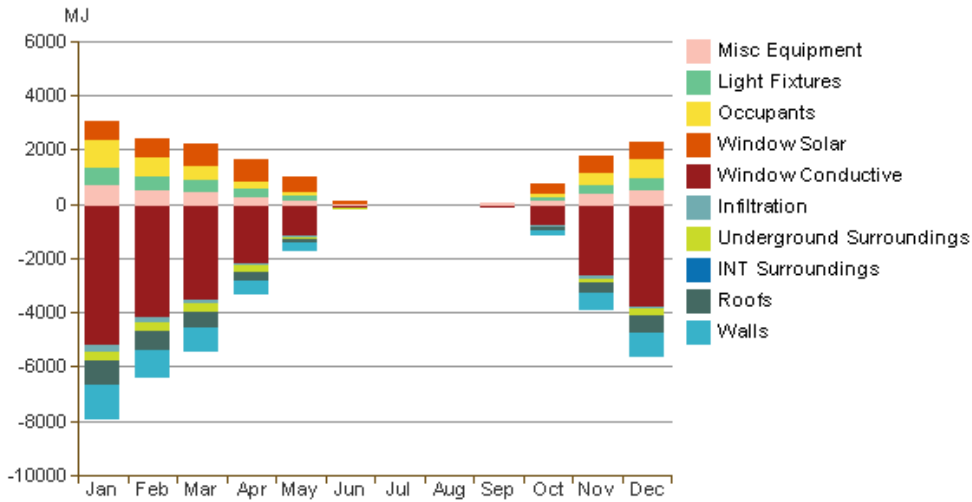
Energy Use: Fuel



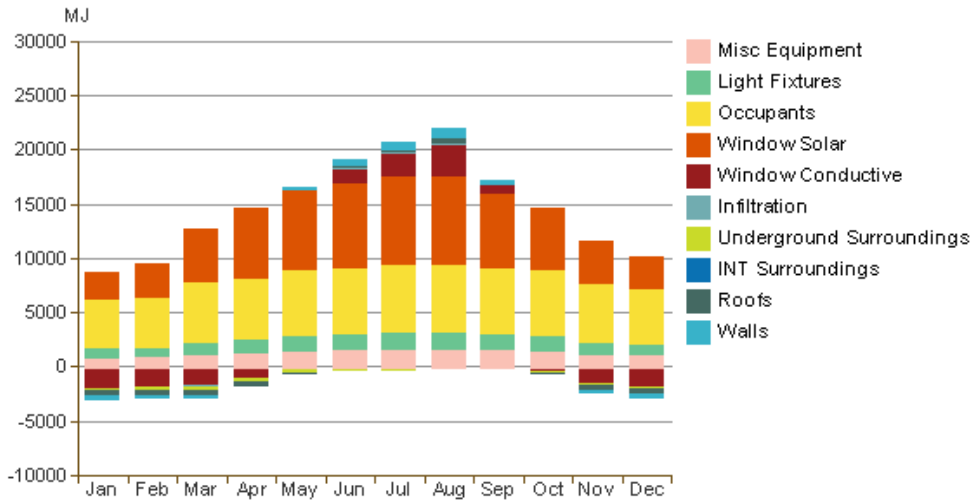
Energy Use: Electricity



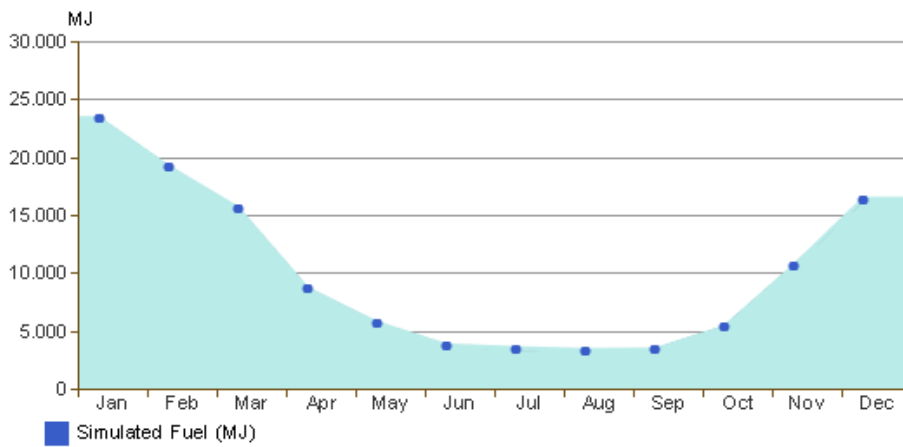
Monthly Heating Load



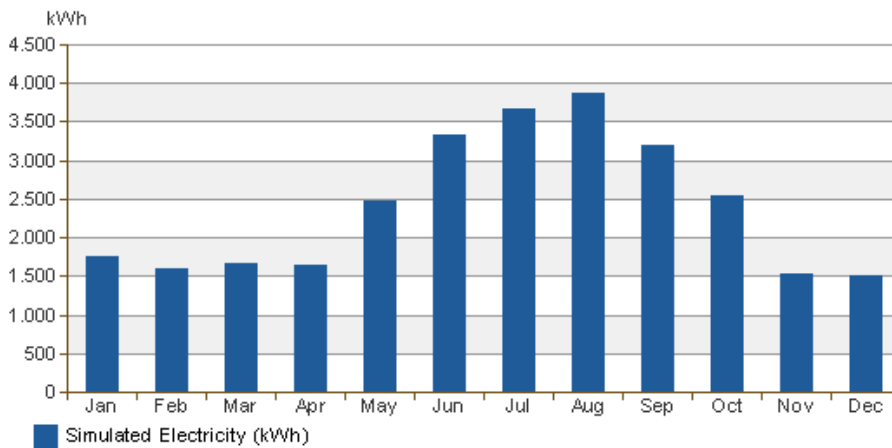
Monthly Cooling Load



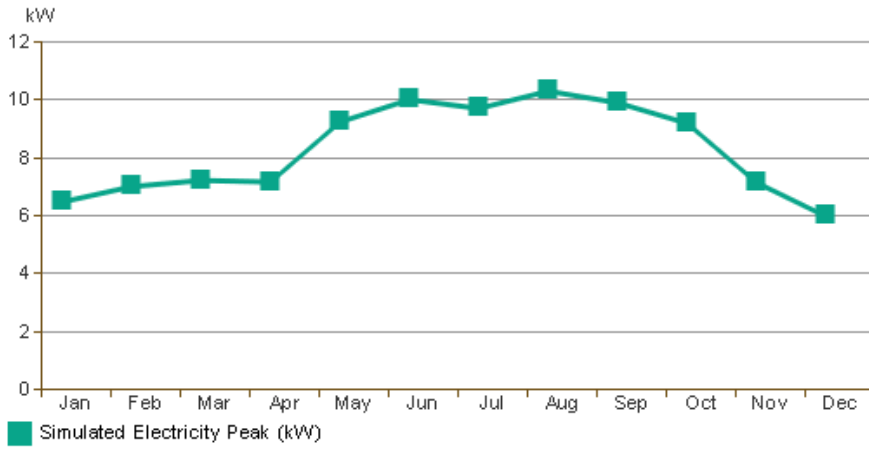
Monthly Fuel Consumption



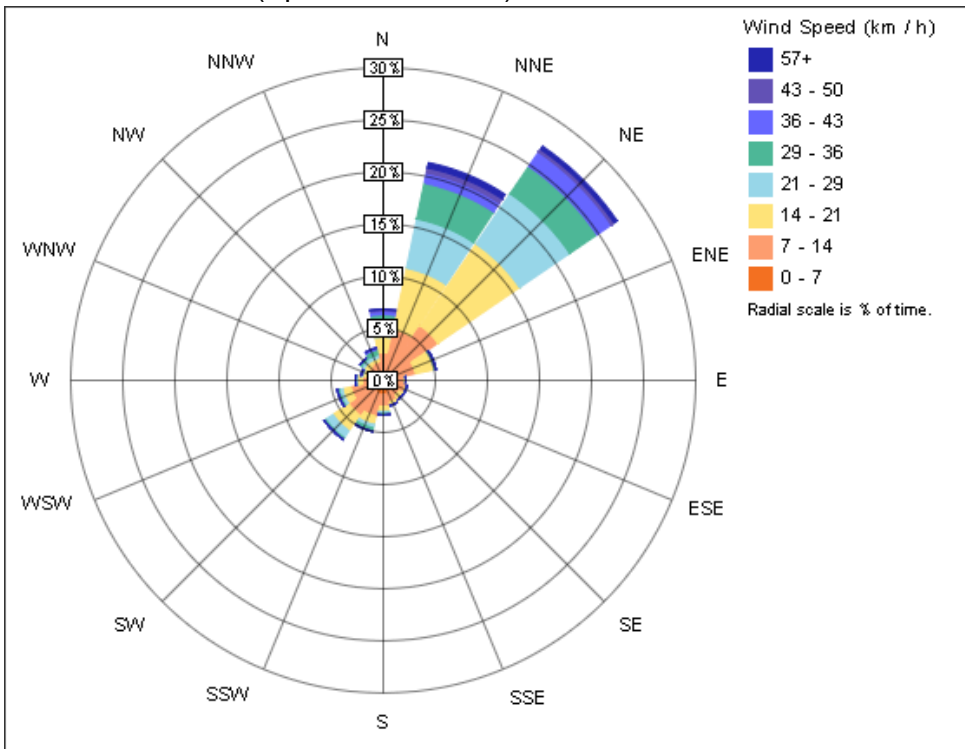
Monthly Electricity Consumption



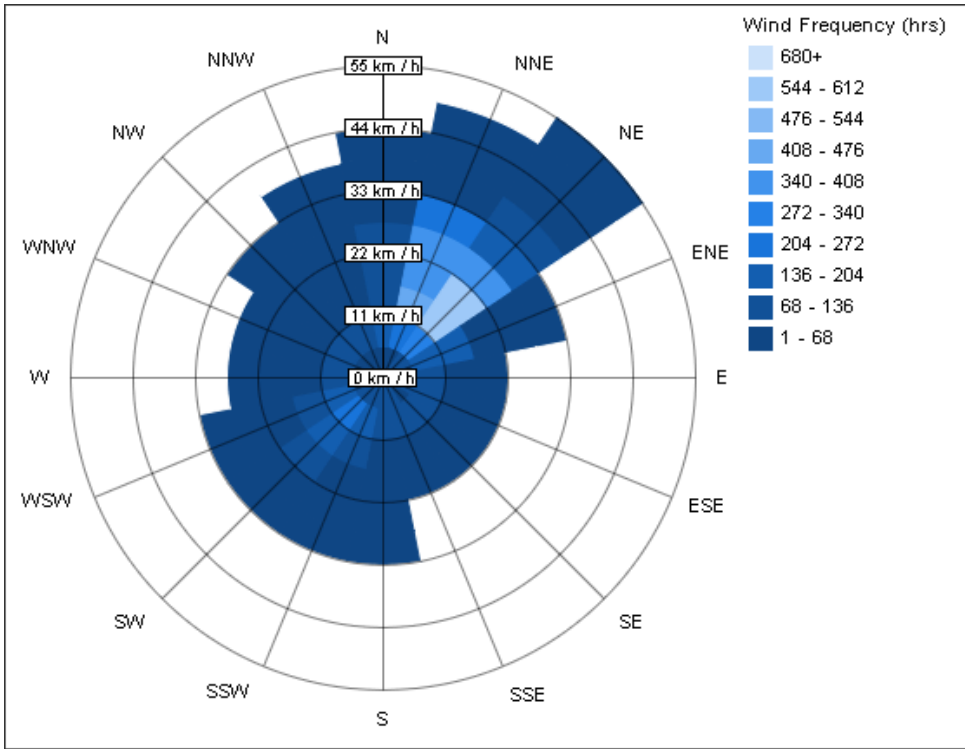
Monthly Peak Demand



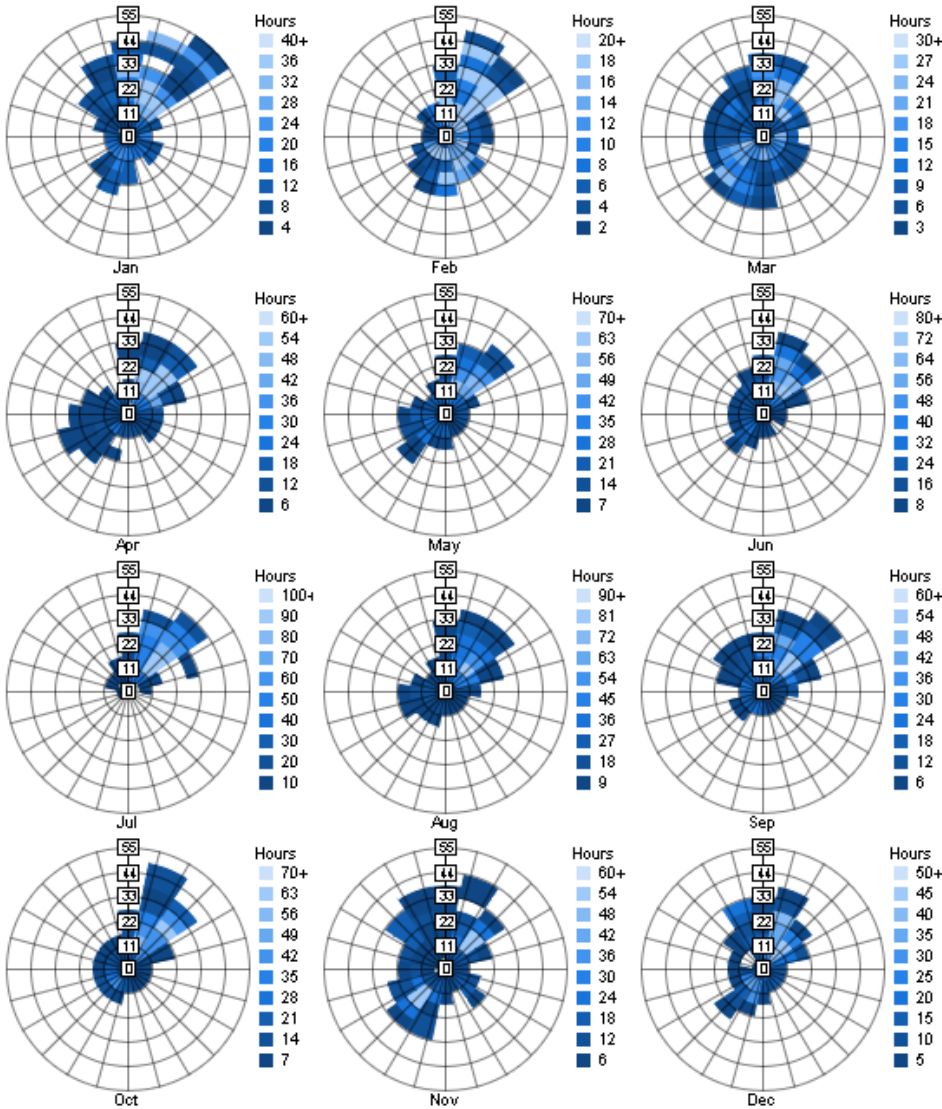
Annual Wind Rose (Speed Distribution)



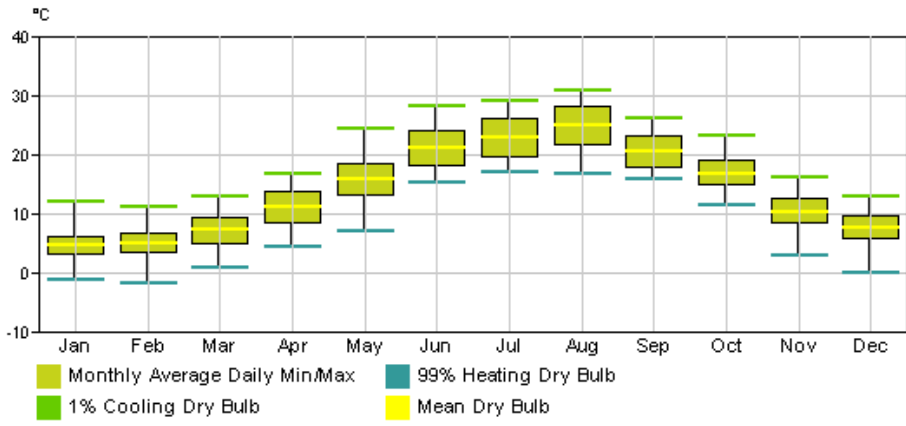
Annual Wind Rose (Frequency Distribution)



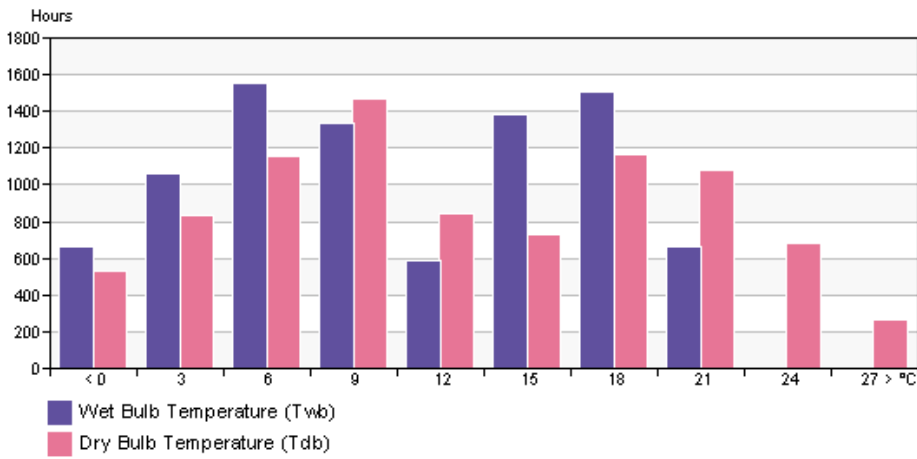
Monthly Wind Roses



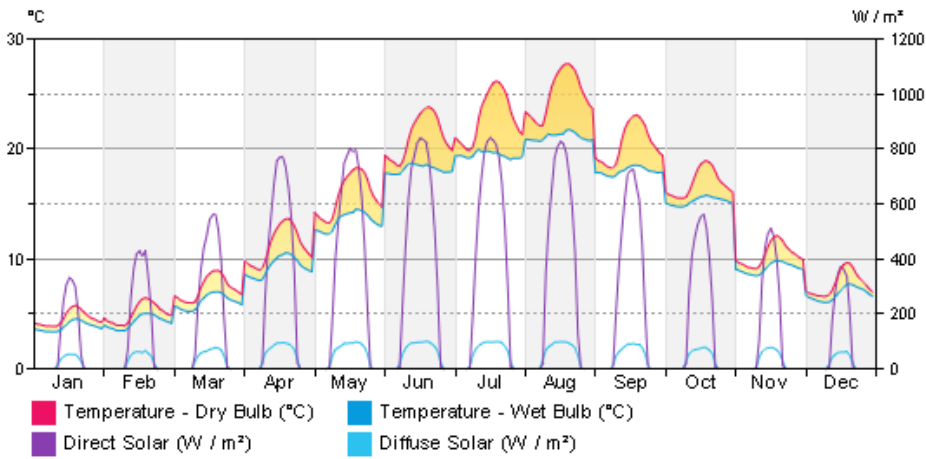
Monthly Design Data



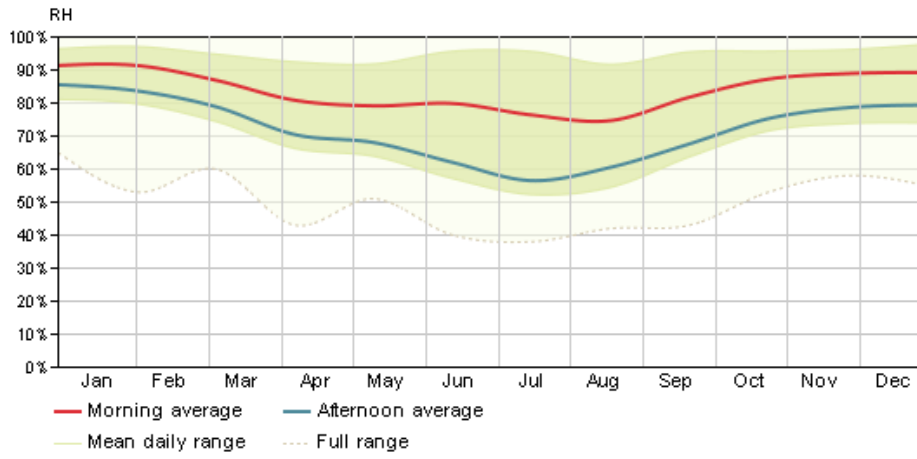
Annual Temperature Bins



Diurnal Weather Averages



Humidity



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Energy Analysis Data

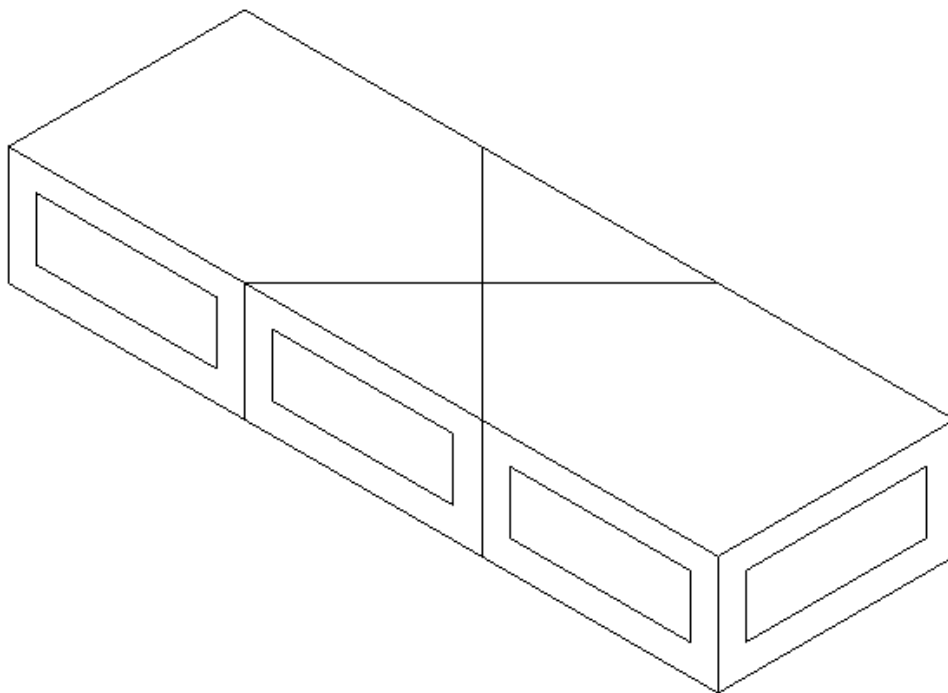


Project1 (2)

lab

Analyzed at 12/21/2014 3:50:46 AM

Energy Analysis Result



Building Performance Factors

Location:	40.9691352844238,29.0488872528076
Weather Station:	1244216
Outdoor Temperature:	Max: 31°C/Min: -2°C
Floor Area:	108 m ²
Exterior Wall Area:	144 m ²
Average Lighting Power:	13.99 W / m ²
People:	3 people
Exterior Window Ratio:	0.40
Electrical Cost:	\$0.14 / kWh
Fuel Cost:	\$1.44 / Therm

Energy Use Intensity

Electricity EUI:	173 kWh / sm / yr
Fuel EUI:	563 MJ / sm / yr
Total EUI:	1,187 MJ / sm / yr

Life Cycle Energy Use/Cost

Life Cycle Electricity Use:	561,524 kWh
Life Cycle Fuel Use:	1,823,732 MJ
Life Cycle Energy Cost:	\$46,765

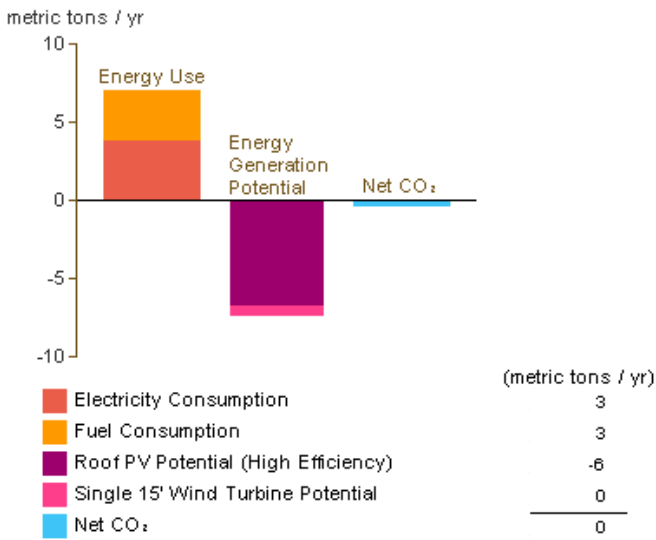
*30-year life and 6.1% discount rate for costs

Renewable Energy Potential

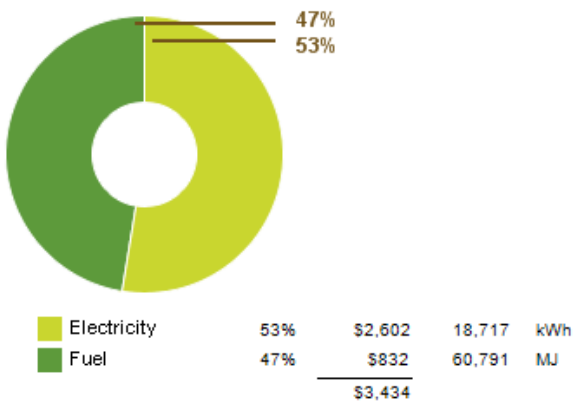
Roof Mounted PV System (Low efficiency):	10,582 kWh / yr
Roof Mounted PV System (Medium efficiency):	21,164 kWh / yr
Roof Mounted PV System (High efficiency):	31,746 kWh / yr
Single 15' Wind Turbine Potential:	3,064 kWh / yr

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

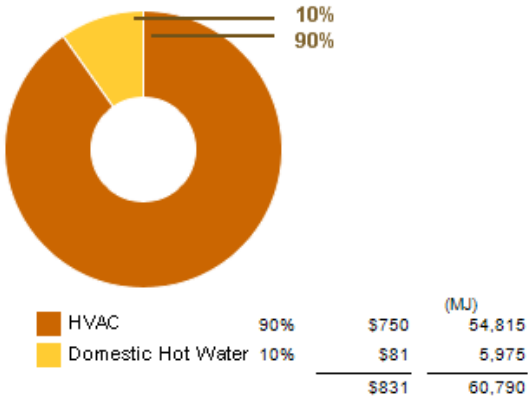
Annual Carbon Emissions



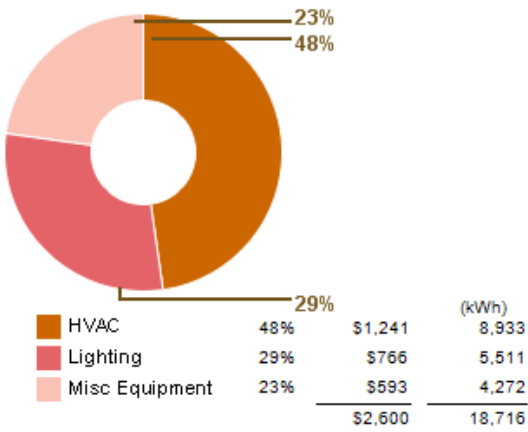
Annual Energy Use/Cost



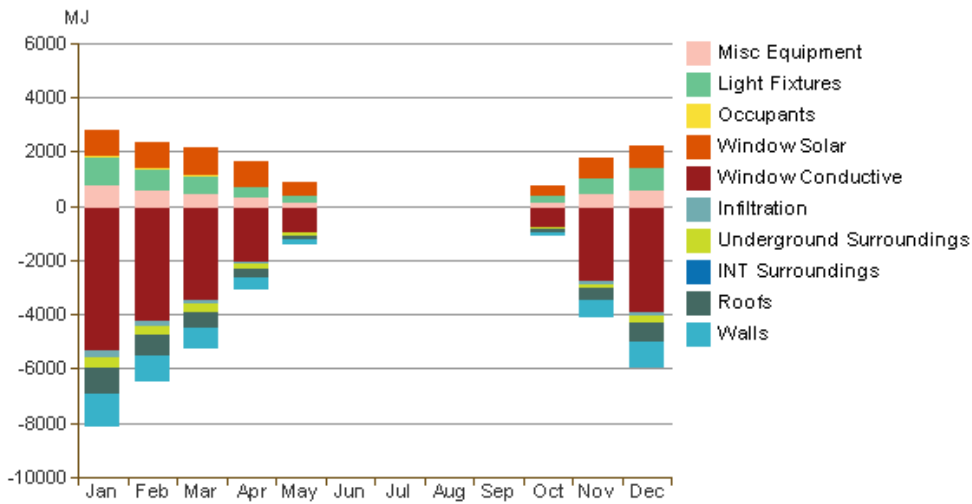
Energy Use: Fuel



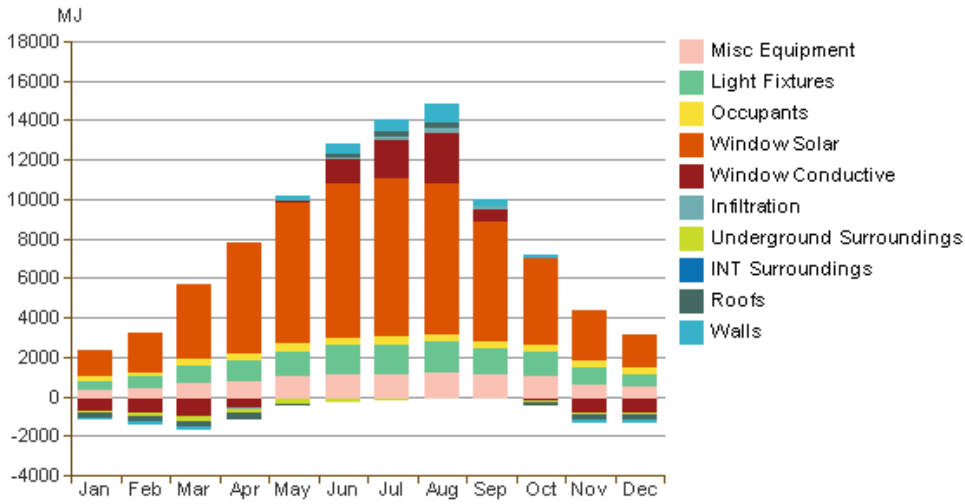
Energy Use: Electricity



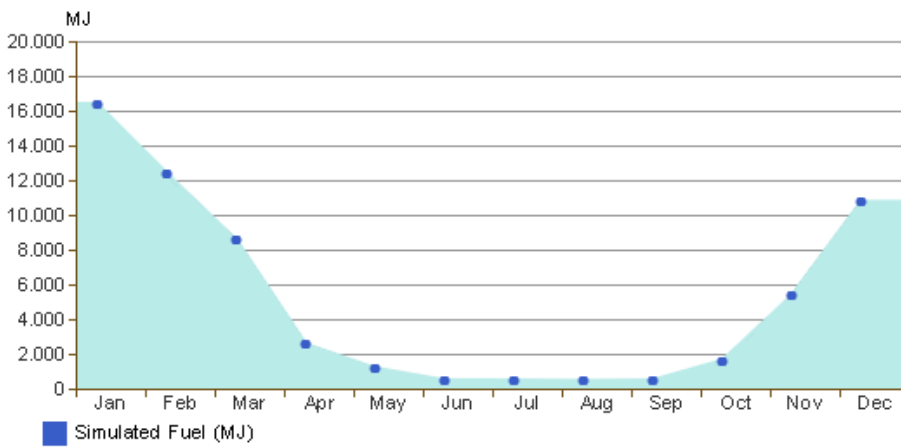
Monthly Heating Load



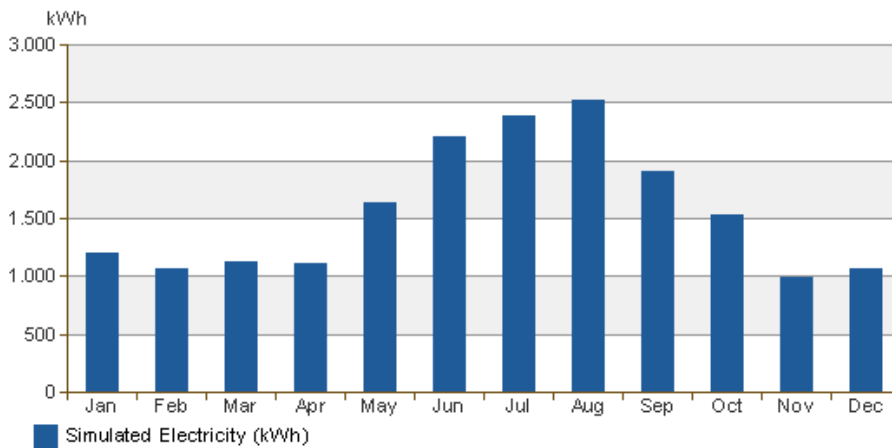
Monthly Cooling Load



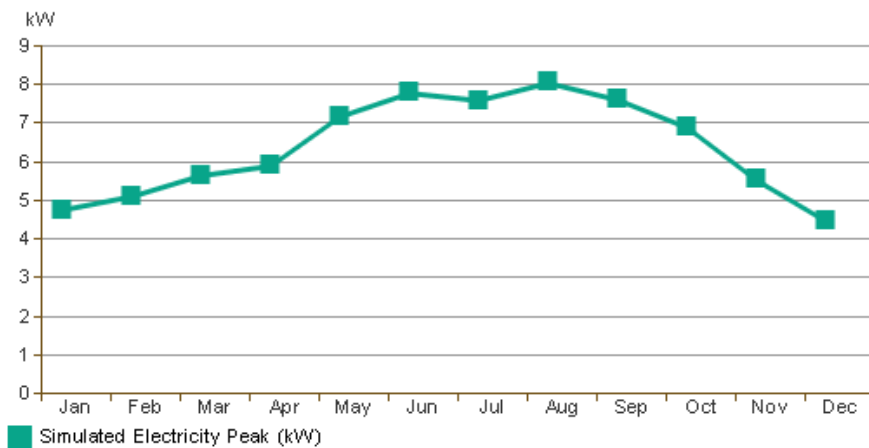
Monthly Fuel Consumption



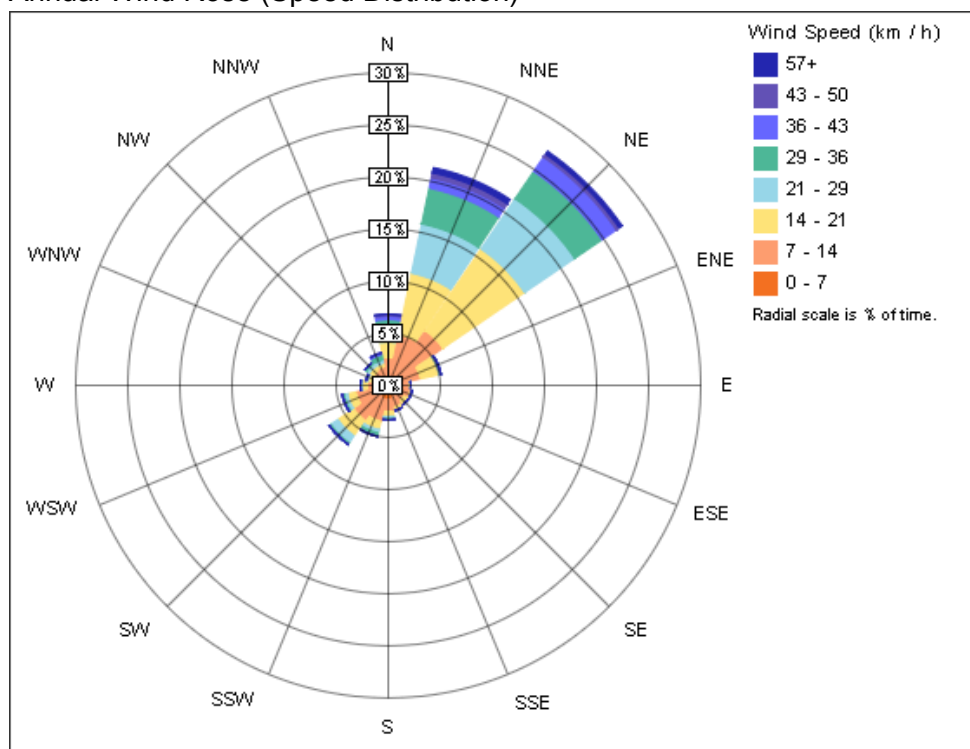
Monthly Electricity Consumption



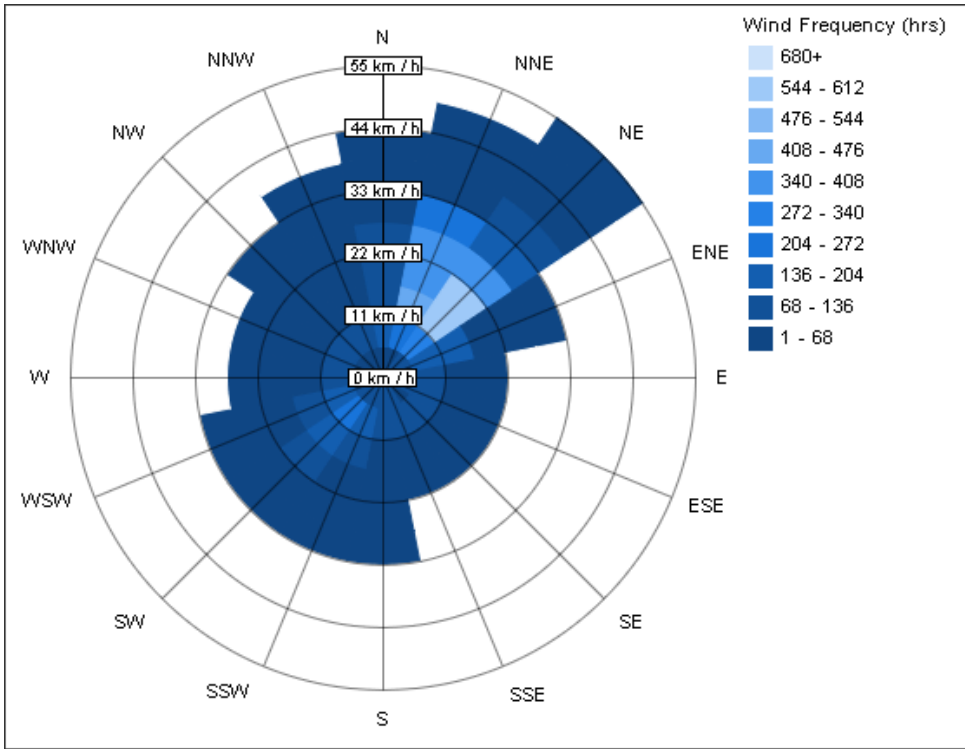
Monthly Peak Demand



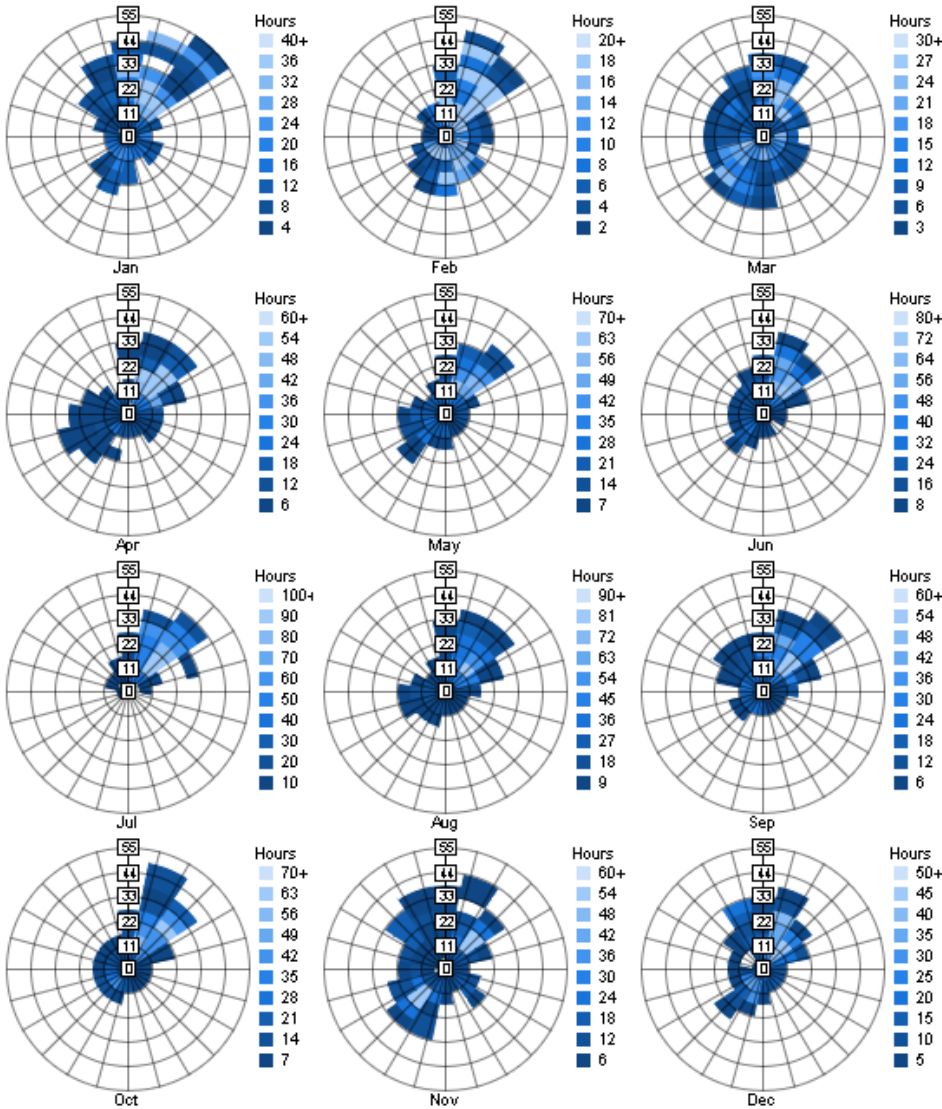
Annual Wind Rose (Speed Distribution)



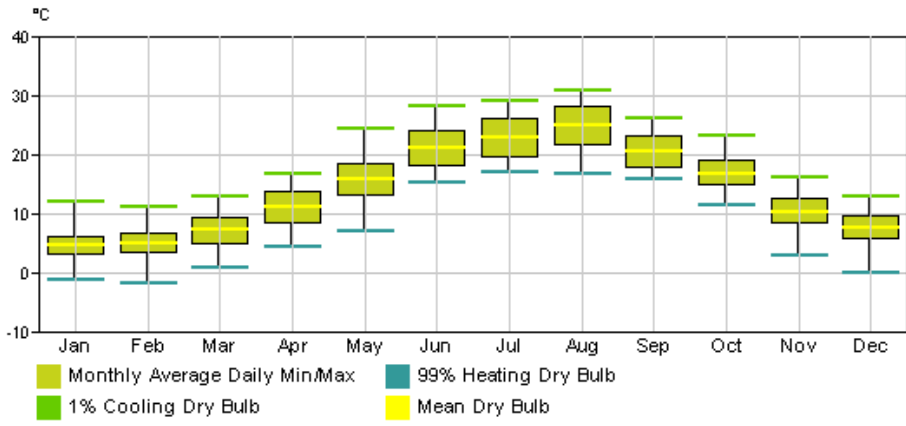
Annual Wind Rose (Frequency Distribution)



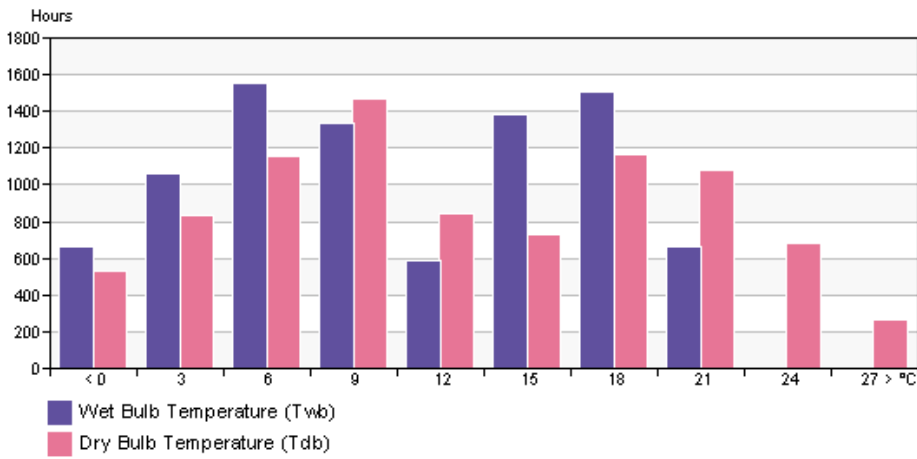
Monthly Wind Roses



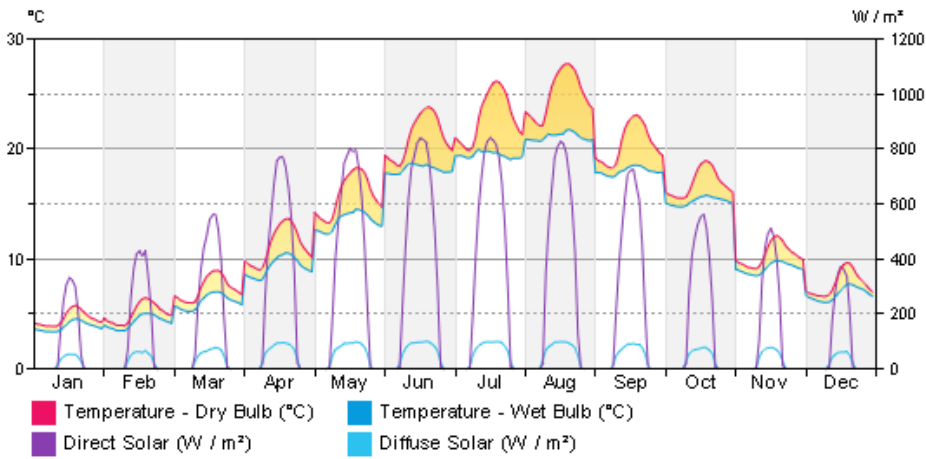
Monthly Design Data



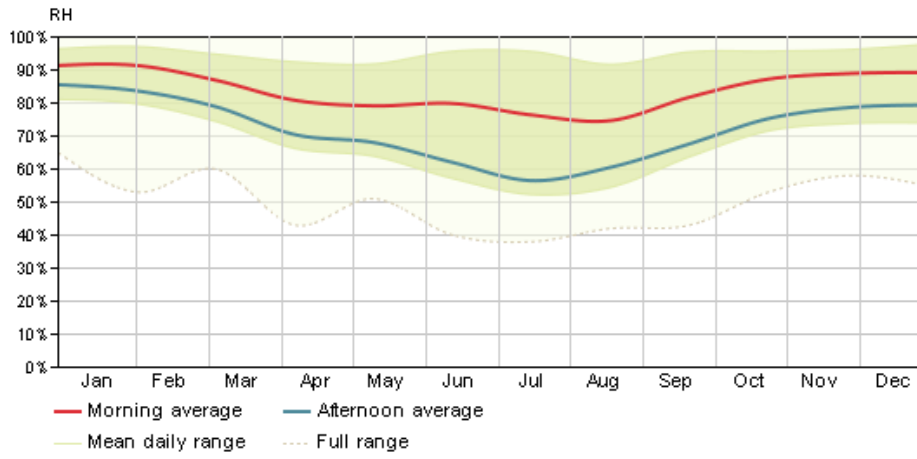
Annual Temperature Bins



Diurnal Weather Averages



Humidity



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Energy Analysis Data