



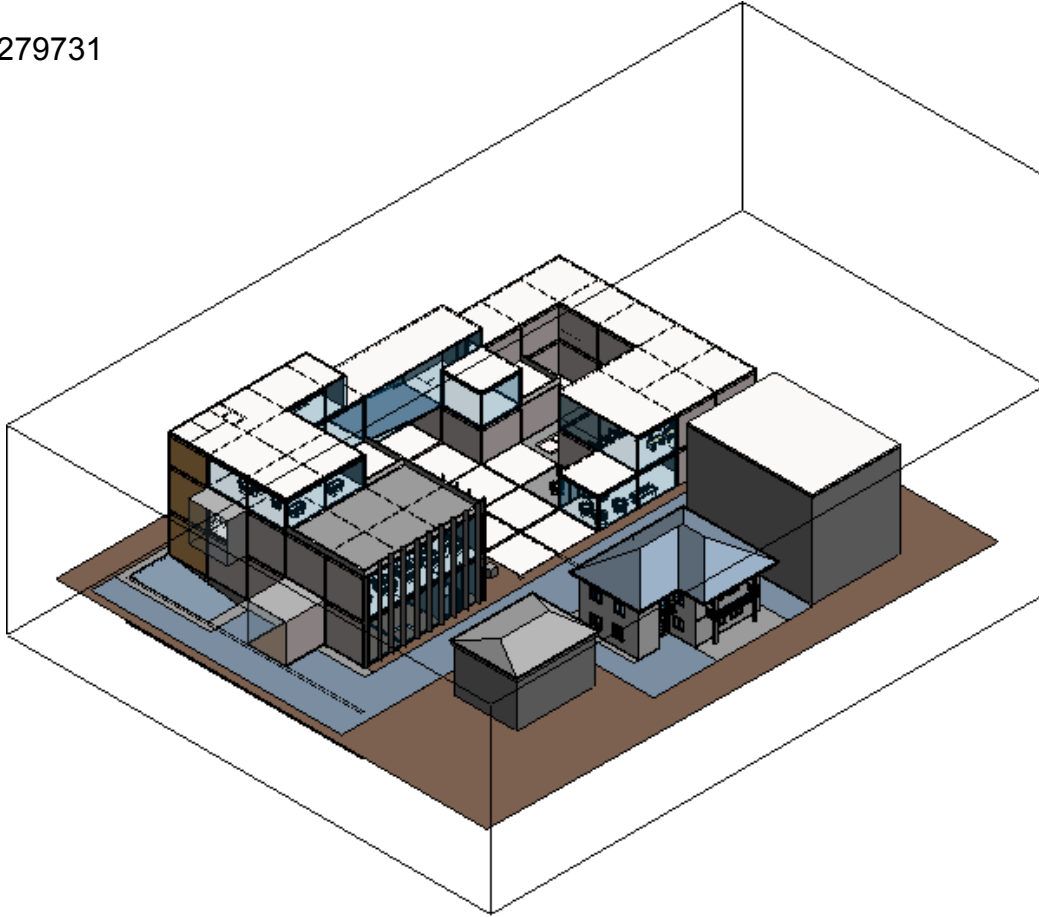
FINAL PROJE 2015

FINAL PROJE 2015 Analysis

Analyzed at 27.12.2015 20:02:52

Energy Analysis Result

279731



Building Performance Factors

Location:	bağçelievler ankara
Weather Station:	53159
Outdoor Temperature:	Max: 36°C/Min: -24°C
Floor Area:	1.097 m ²
Exterior Wall Area:	2.096 m ²
Average Lighting Power:	9.69 W / m ²
People:	33 people
Exterior Window Ratio:	0,01
Electrical Cost:	0,14 \$ / kWh
Fuel Cost:	1,16 \$ / Therm

Energy Use Intensity

Electricity EUI:	146 kWh / sm / yr
Fuel EUI:	828 MJ / sm / yr
Total EUI:	1,352 MJ / sm / yr

Life Cycle Energy Use/Cost

Life Cycle Electricity Use:	3,924,756 kWh
Life Cycle Fuel Use:	22,332,568 MJ
Life Cycle Energy Cost:	367,244 \$

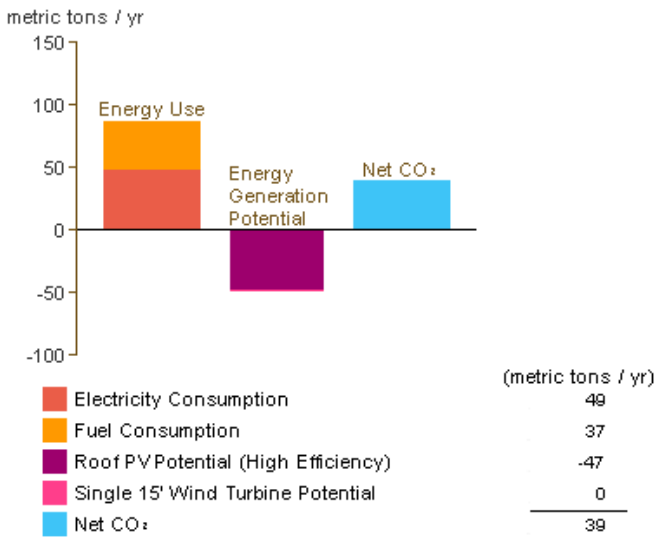
*30-year life and 6.1% discount rate for costs

Renewable Energy Potential

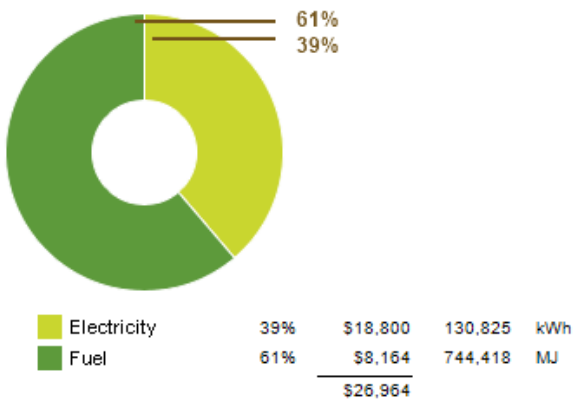
Roof Mounted PV System (Low efficiency):	42,239 kWh / yr
Roof Mounted PV System (Medium efficiency):	84,477 kWh / yr
Roof Mounted PV System (High efficiency):	126,716 kWh / yr
Single 15' Wind Turbine Potential:	989 kWh / yr

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

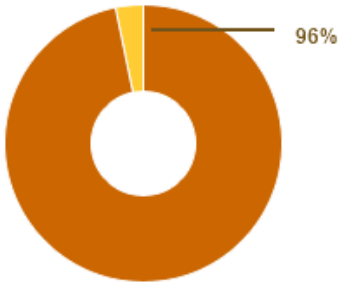
Annual Carbon Emissions



Annual Energy Use/Cost

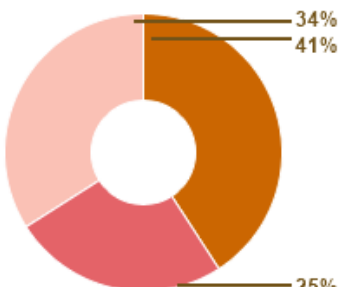


Energy Use: Fuel



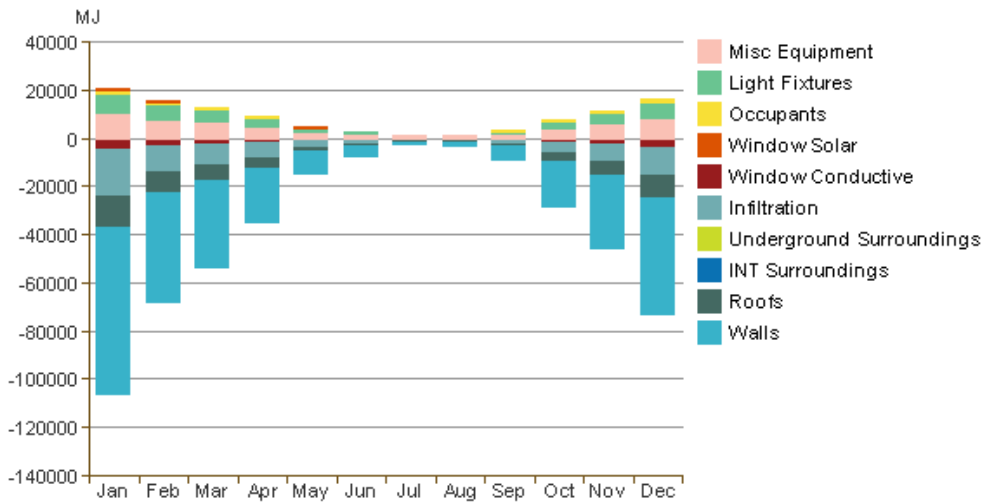
		(MJ)	
HVAC	96%	\$7,900	720,367
Domestic Hot Water	4%	\$263	24,051
		\$8,163	744,418

Energy Use: Electricity

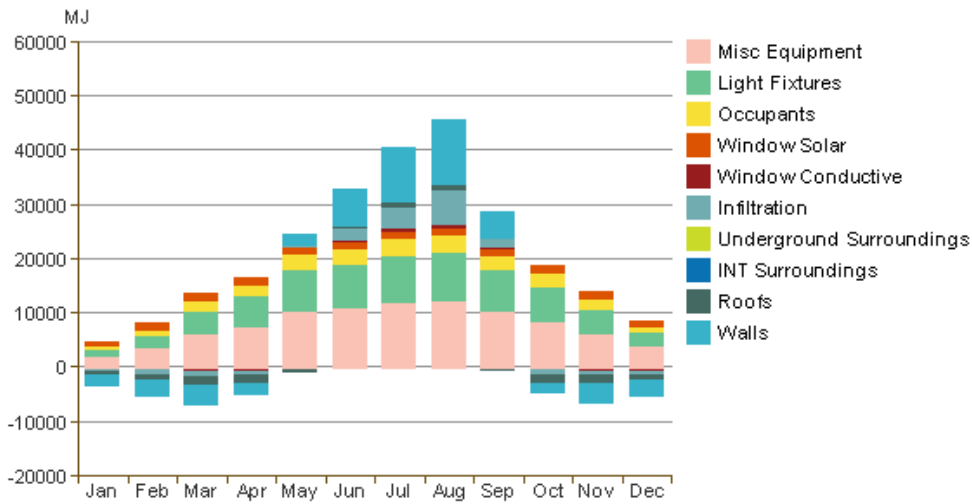


		(kWh)	
HVAC	41%	\$7,415	51,603
Lighting	25%	\$4,569	31,800
Misc Equipment	34%	\$6,174	42,969
		\$18,158	126,372

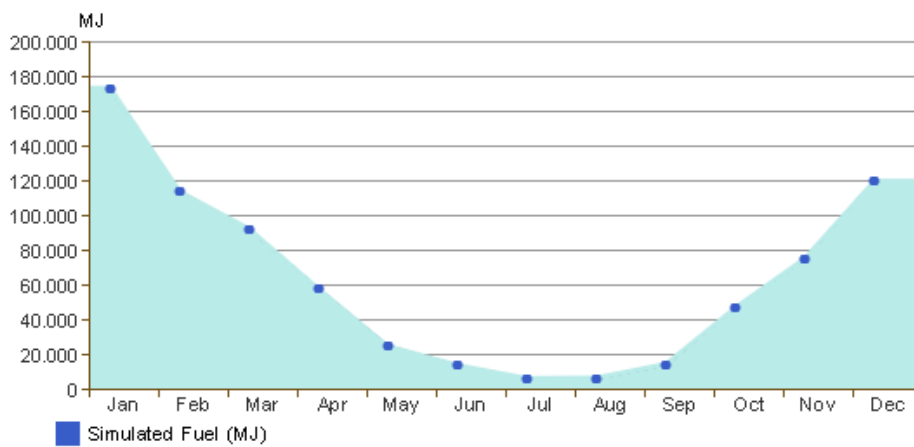
Monthly Heating Load



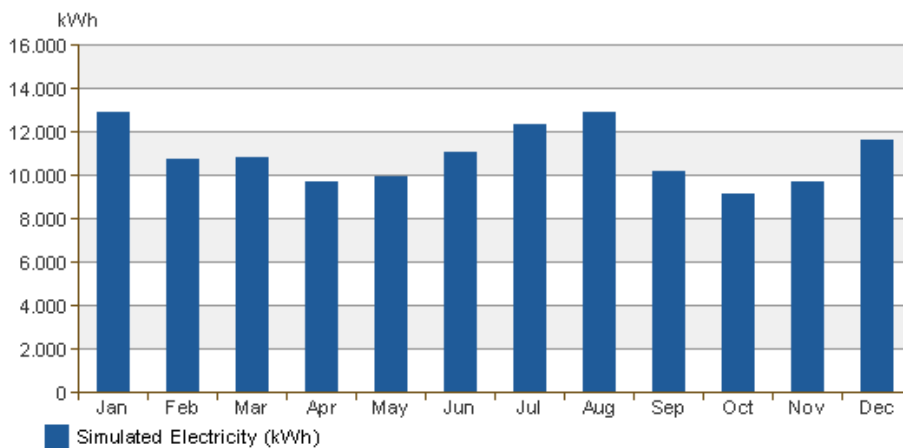
Monthly Cooling Load



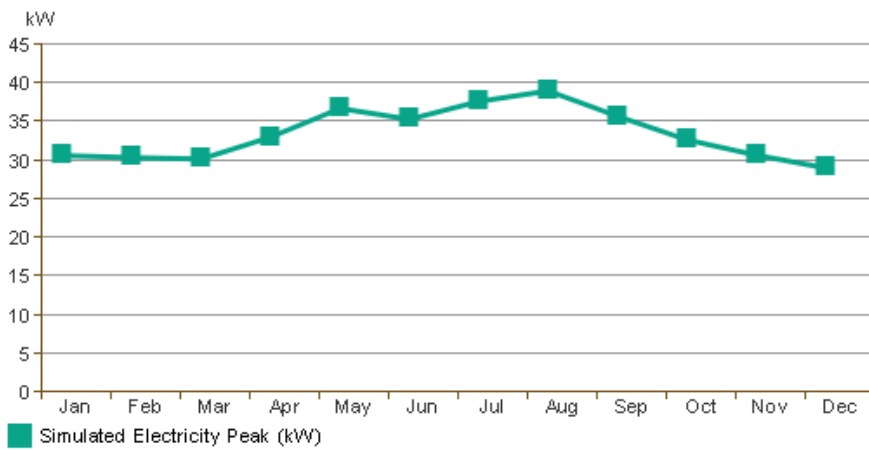
Monthly Fuel Consumption



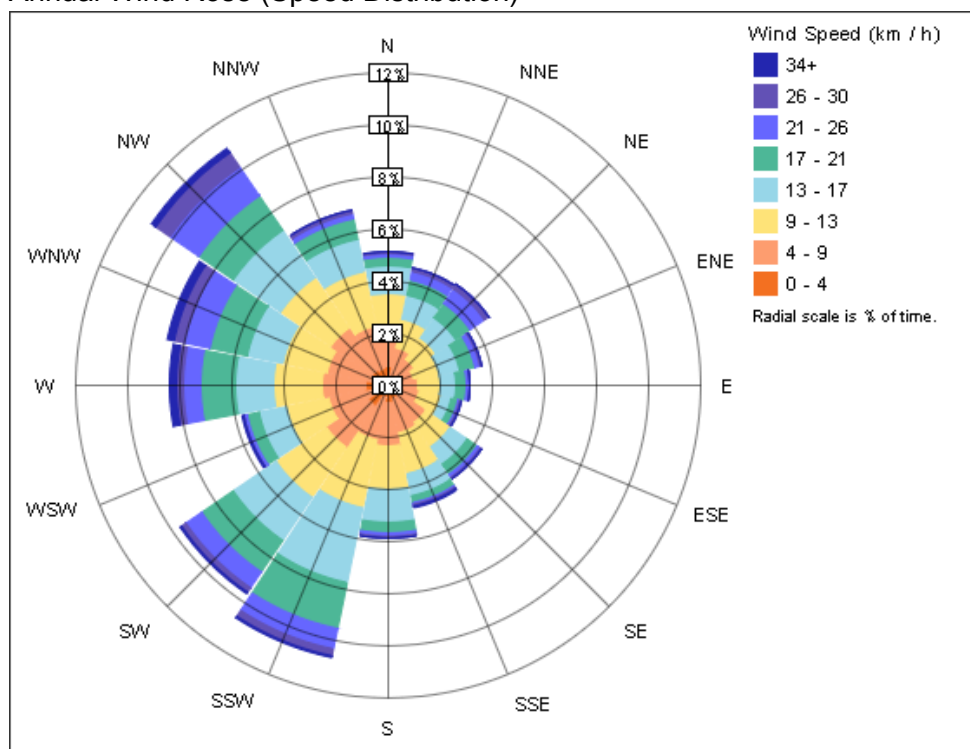
Monthly Electricity Consumption



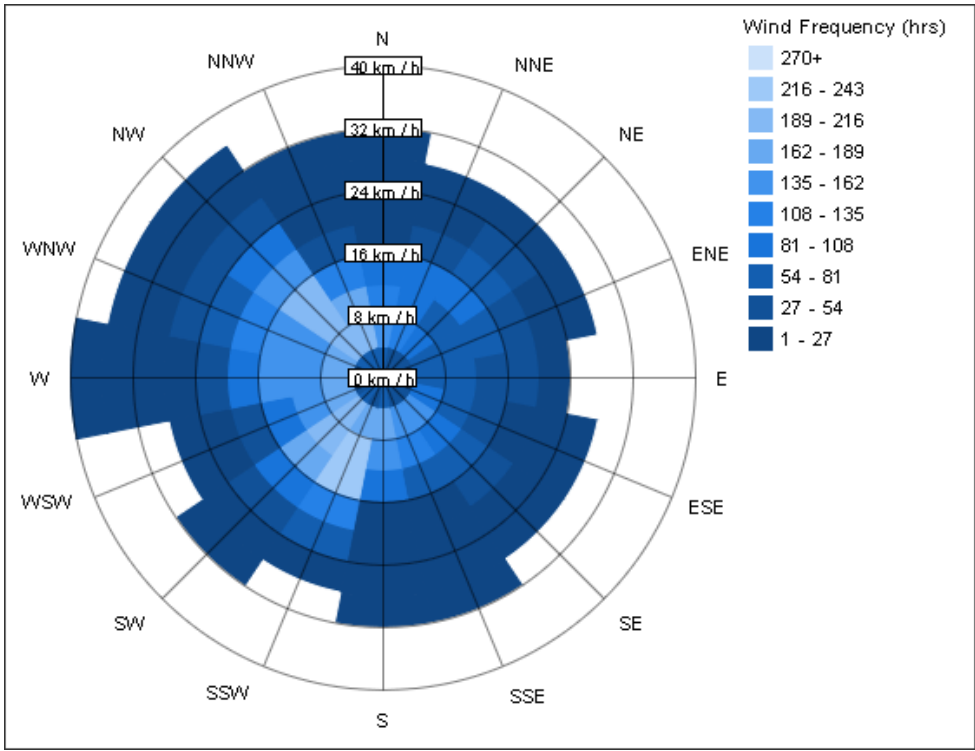
Monthly Peak Demand



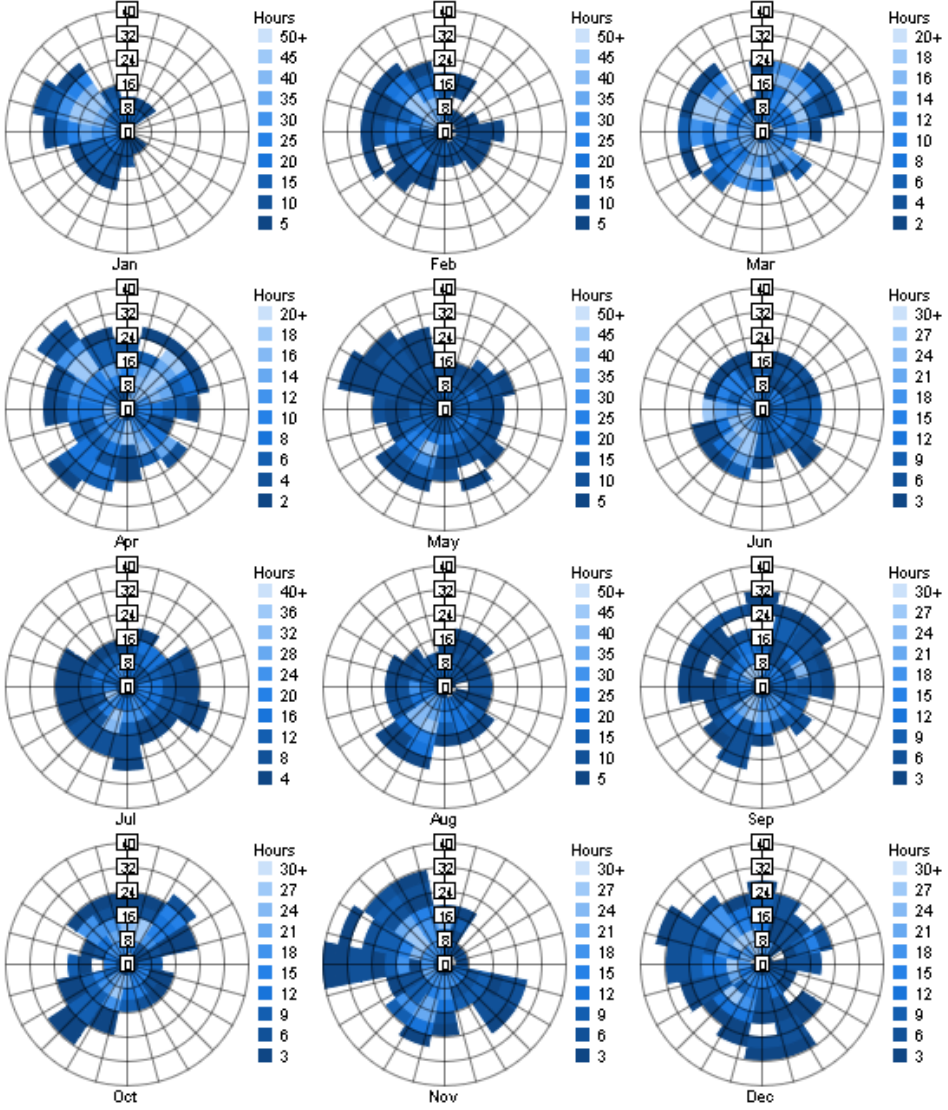
Annual Wind Rose (Speed Distribution)



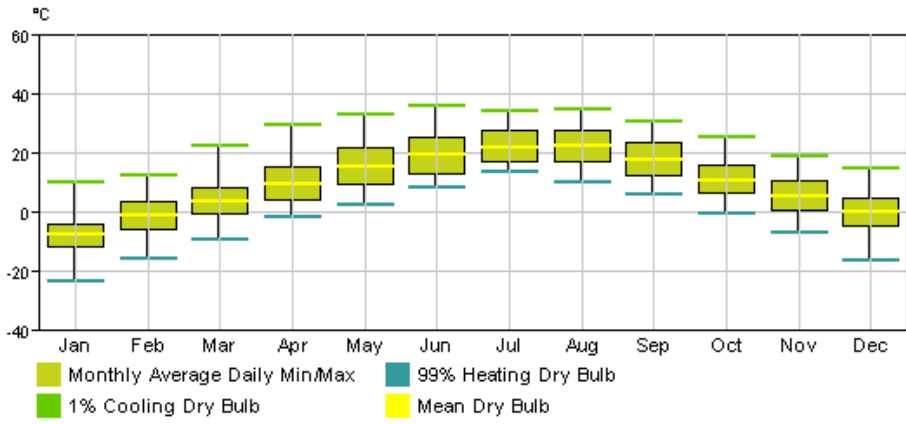
Annual Wind Rose (Frequency Distribution)



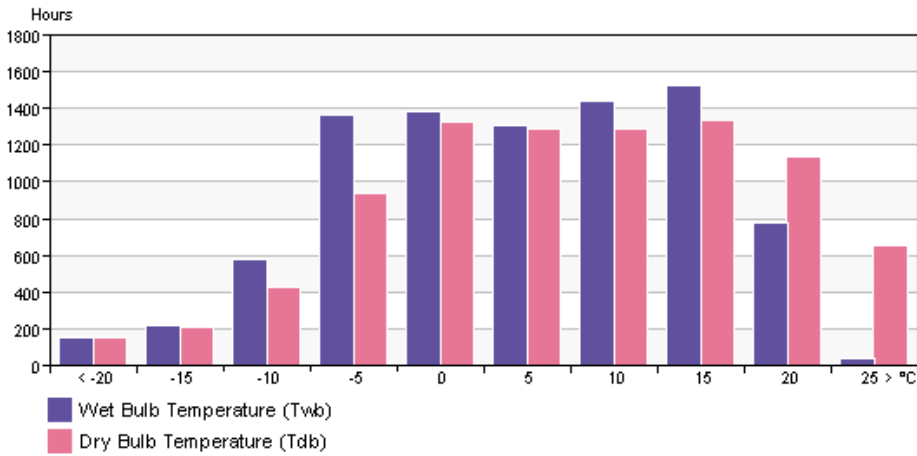
Monthly Wind Roses



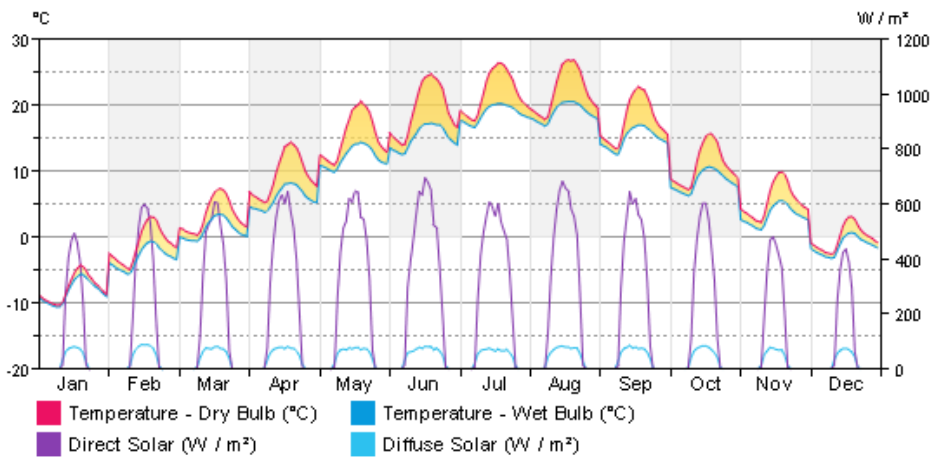
Monthly Design Data



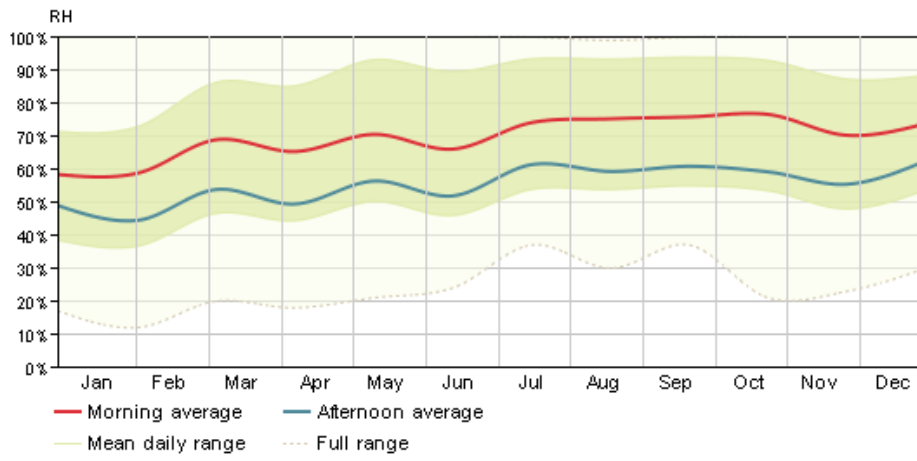
Annual Temperature Bins



Diurnal Weather Averages



Humidity



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Energy Analysis Data