



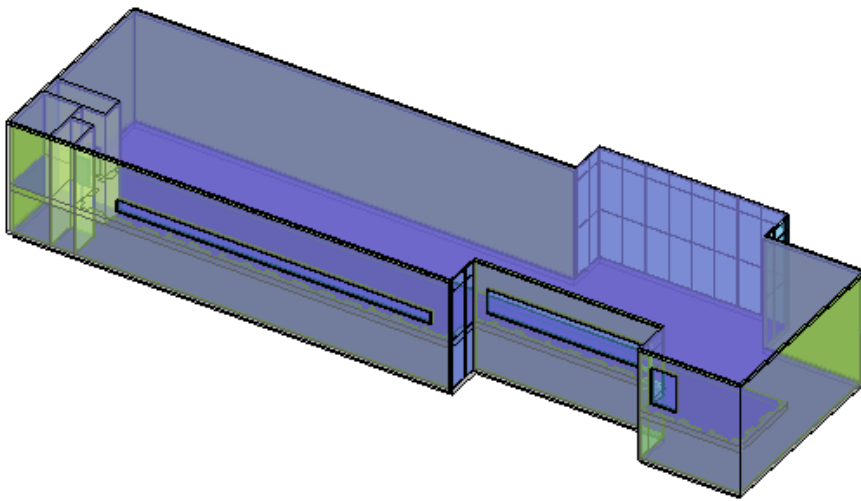
son

son Analysis

Analyzed at 12/26/2015 1:03:42 PM

Energy Analysis Result

479274



Building Performance Factors

Location:	Ankara, Turkey
Weather Station:	188208
Outdoor Temperature:	Max: 36°C/Min: -9°C
Floor Area:	1,176 m ²
Exterior Wall Area:	1,144 m ²
Average Lighting Power:	12.92 W / m ²
People:	46 people
Exterior Window Ratio:	0.26
Electrical Cost:	\$0.14 / kWh
Fuel Cost:	\$1.44 / Therm

Energy Use Intensity

Electricity EUI:	111 kWh / sm / yr
Fuel EUI:	1,018 MJ / sm / yr
Total EUI:	1,419 MJ / sm / yr

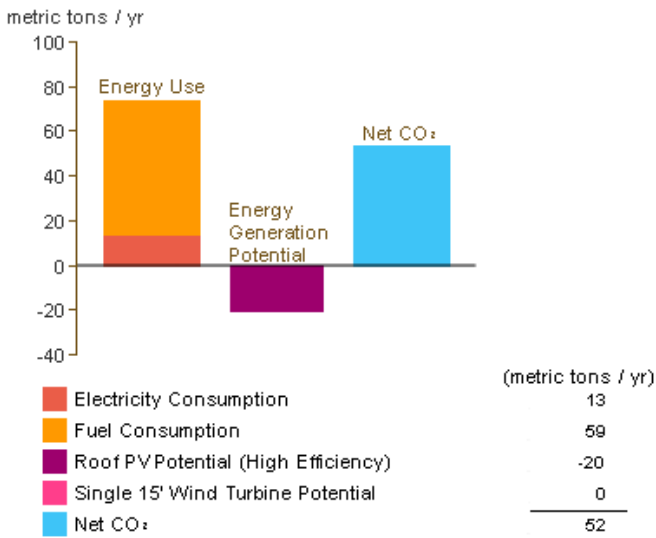
Life Cycle Energy Use/Cost

Life Cycle Electricity Use:	3,924,888 kWh
Life Cycle Fuel Use:	35,911,021 MJ
Life Cycle Energy Cost:	\$470,775
*30-year life and 6.1% discount rate for costs	

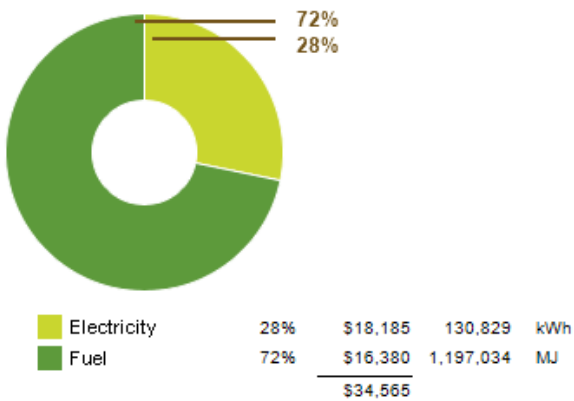
Renewable Energy Potential

Roof Mounted PV System (Low efficiency):	63,527 kWh / yr
Roof Mounted PV System (Medium efficiency):	127,053 kWh / yr
Roof Mounted PV System (High efficiency):	190,580 kWh / yr
Single 15' Wind Turbine Potential:	943 kWh / yr
*PV efficiencies are assumed to be 5%, 10% and 15% for low, medium and high efficiency systems	

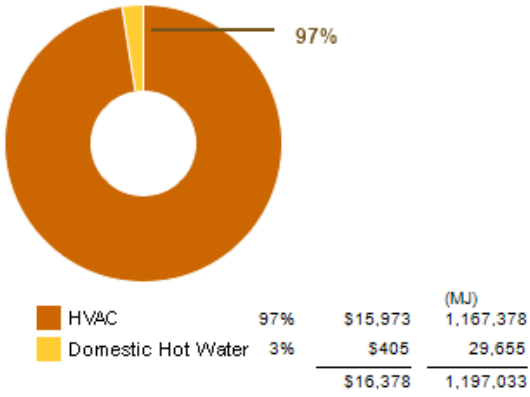
Annual Carbon Emissions



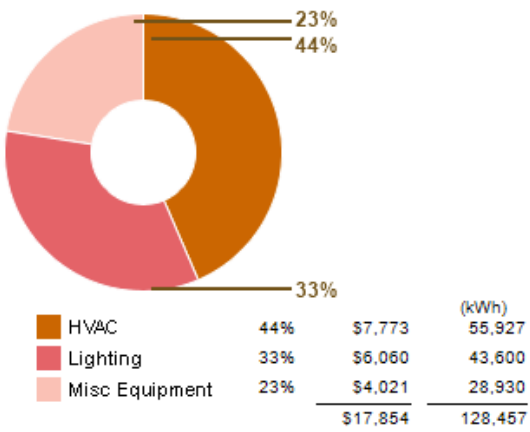
Annual Energy Use/Cost



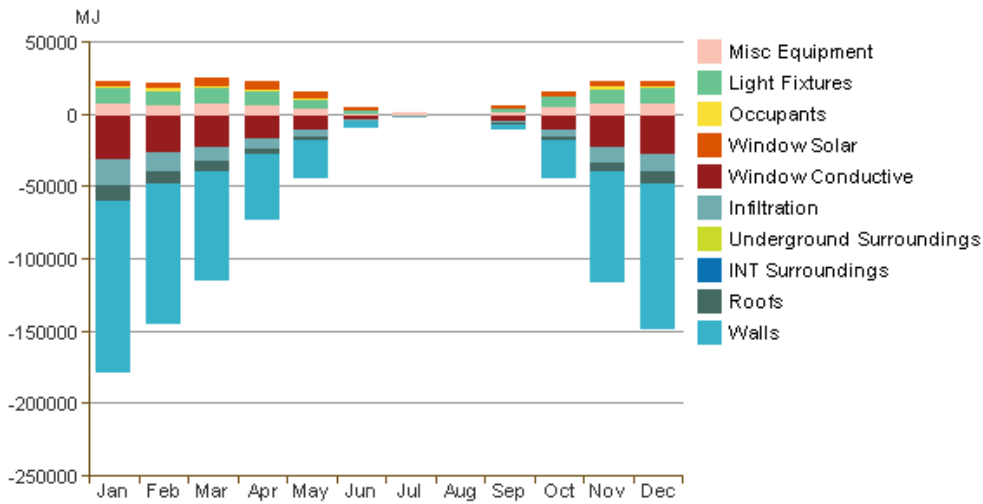
Energy Use: Fuel



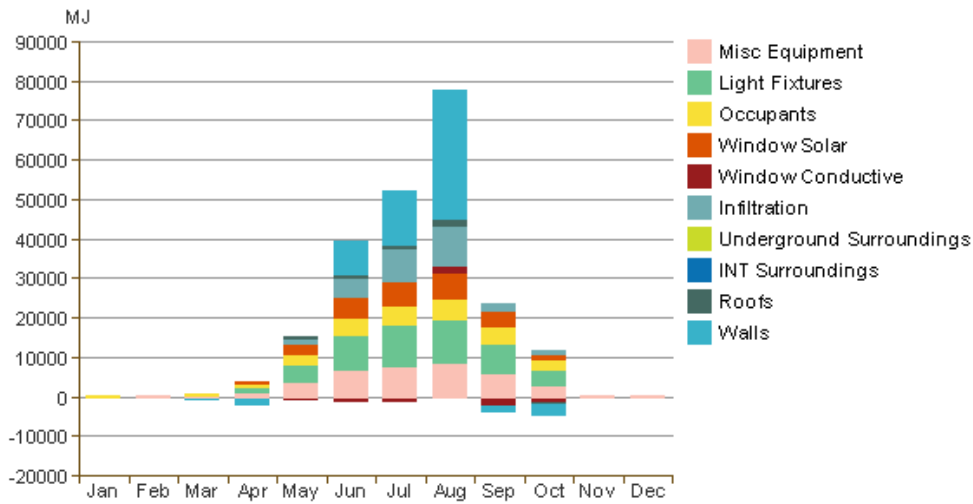
Energy Use: Electricity



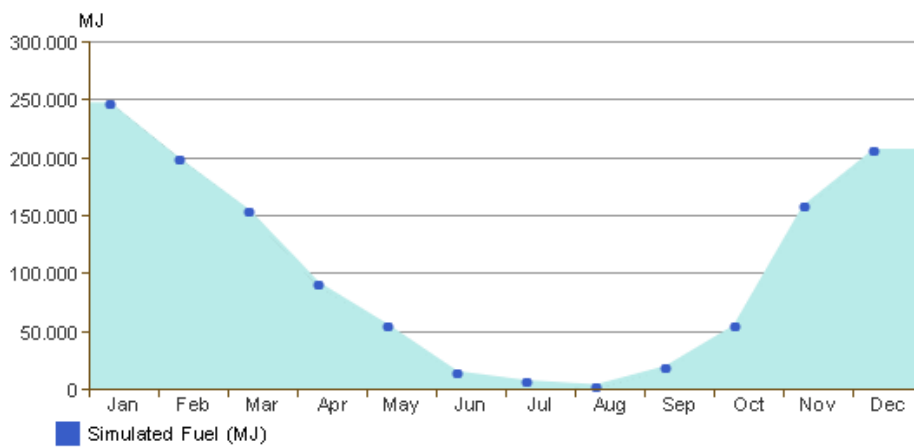
Monthly Heating Load



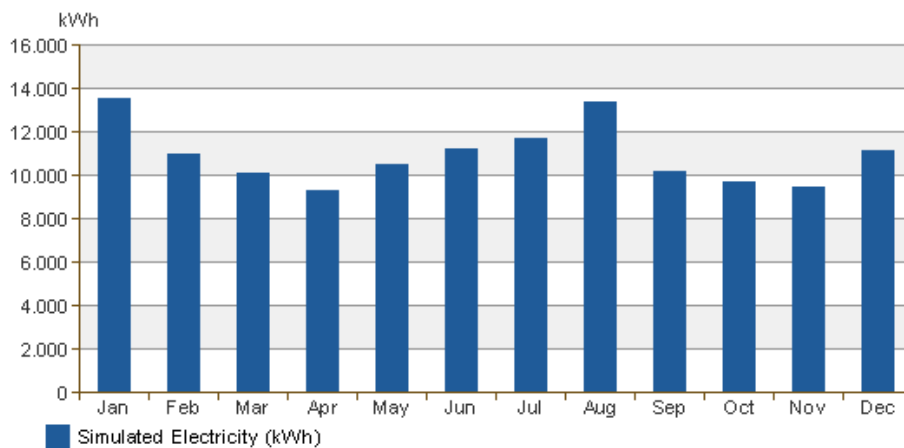
Monthly Cooling Load



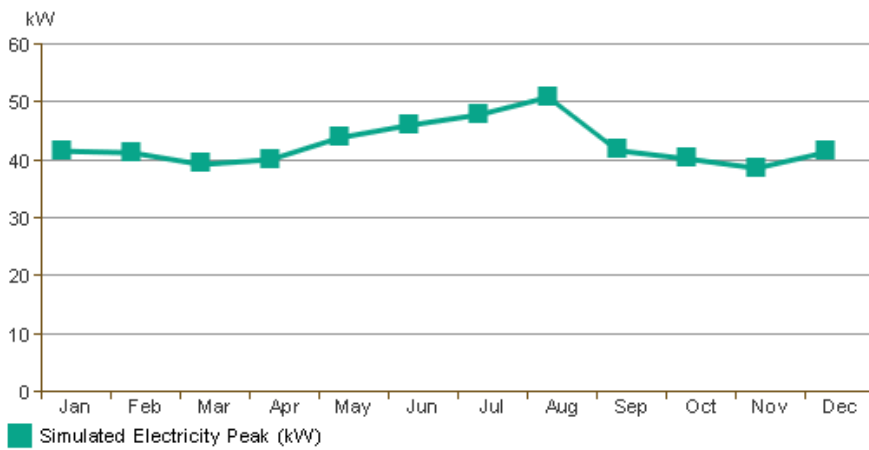
Monthly Fuel Consumption



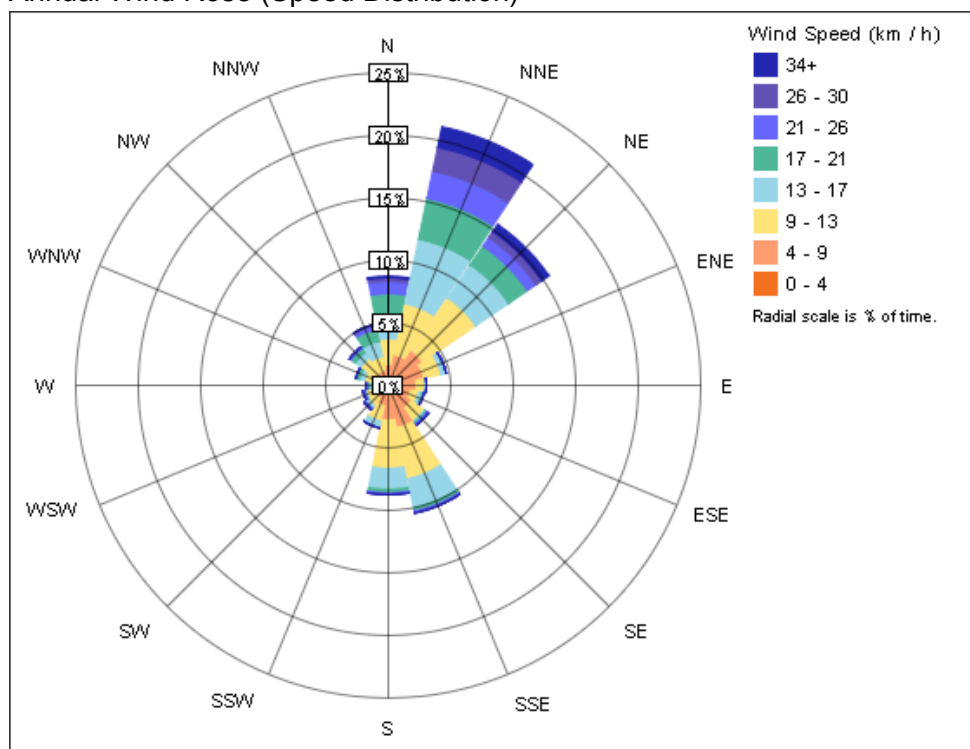
Monthly Electricity Consumption



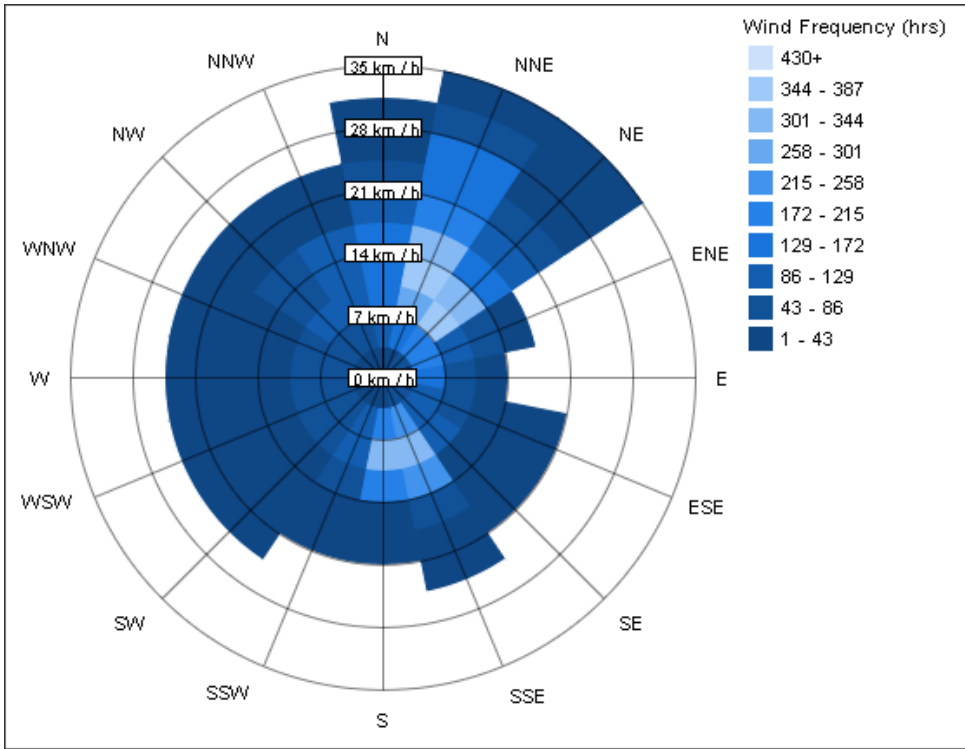
Monthly Peak Demand



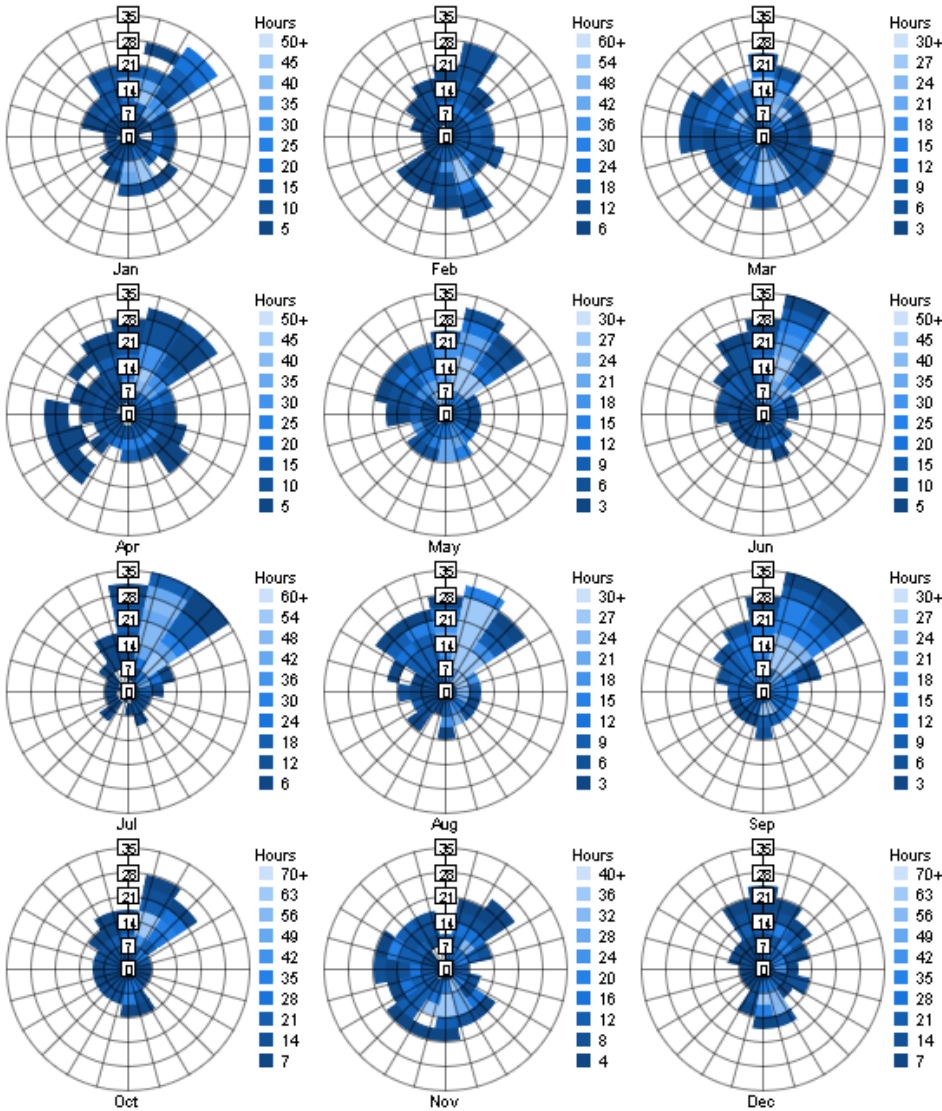
Annual Wind Rose (Speed Distribution)



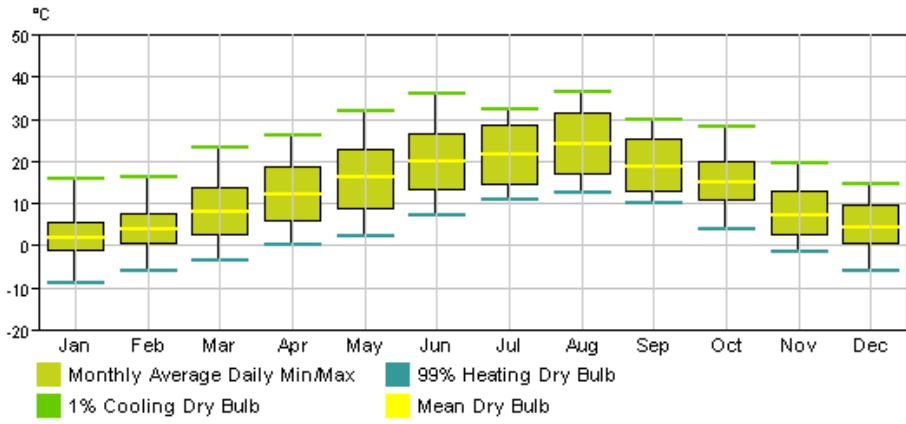
Annual Wind Rose (Frequency Distribution)



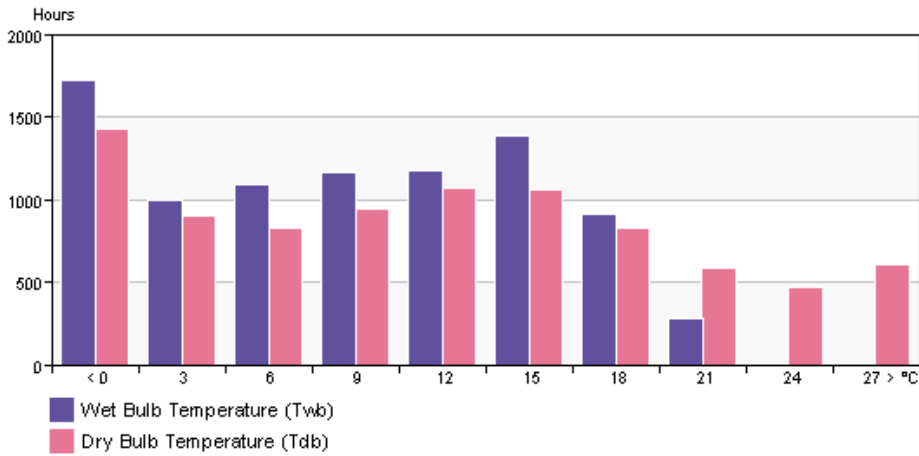
Monthly Wind Roses



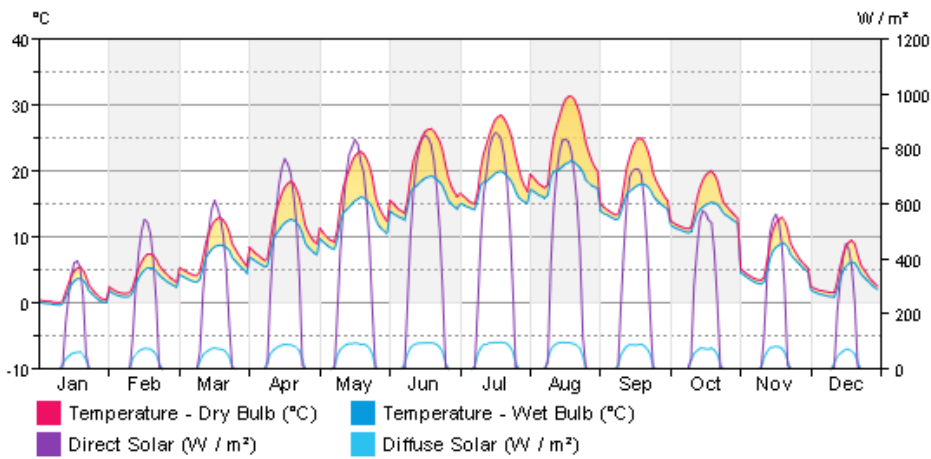
Monthly Design Data



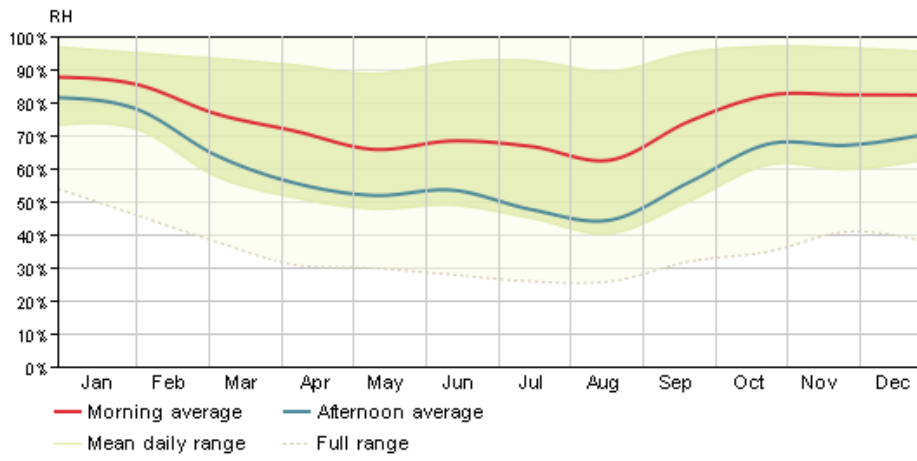
Annual Temperature Bins



Diurnal Weather Averages



Humidity



© Copyright 2015 Autodesk, Inc. All rights reserved. Portions of this software are copyrighted by James J. Hirsch & Associates, the Regents of the University of California, and others.

Energy Analysis Data