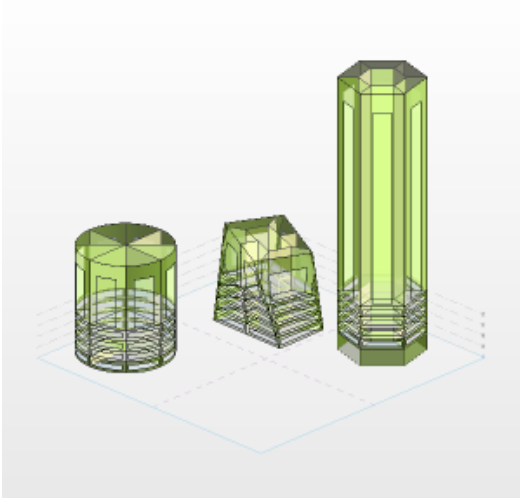


## Project1

## Project1 Analysis (1)

Analyzed at 11/29/2011 1:58:15 PM

## Mass



## Building Performance Factors

Location:	44.7942543029785,20.4544830322266
Weather Station:	53158
Outdoor Temperature:	Max: 28°C/Min: -23°C
Floor Area:	6,252 m <sup>2</sup>
Exterior Wall Area:	9,504 m <sup>2</sup>
Average Lighting Power:	10.87 W / m <sup>2</sup>
People:	292 people
Exterior Window Ratio:	0.40
Electrical Cost:	\$0.09 / kWh
Fuel Cost:	\$0.78 / Therm

## Energy Use Intensity

Electricity EUI:	236 kWh / sm / yr
Fuel EUI:	1,024 MJ / sm / yr
Total EUI:	1,874 MJ / sm / yr

## Life Cycle Energy Use/Cost

Life Cycle Electricity Use:	46,695,180 kWh
Life Cycle Fuel Use:	202,774,410 MJ
Life Cycle Energy Cost:	\$2,674,466

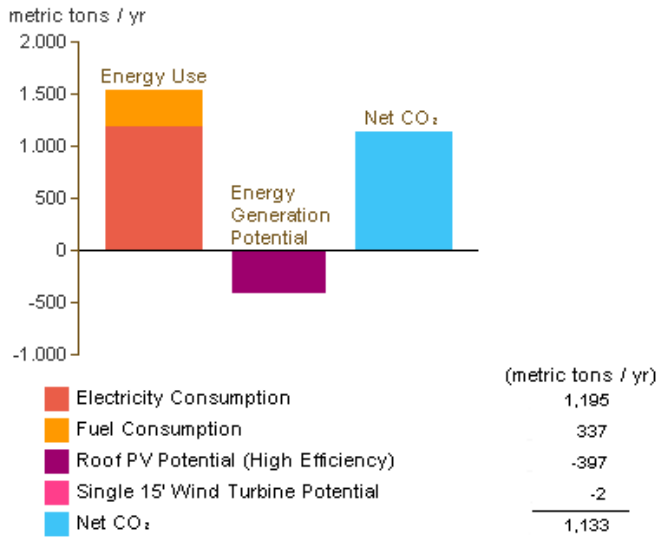
\*30-year life and 6.1% discount rate for costs

## Renewable Energy Potential

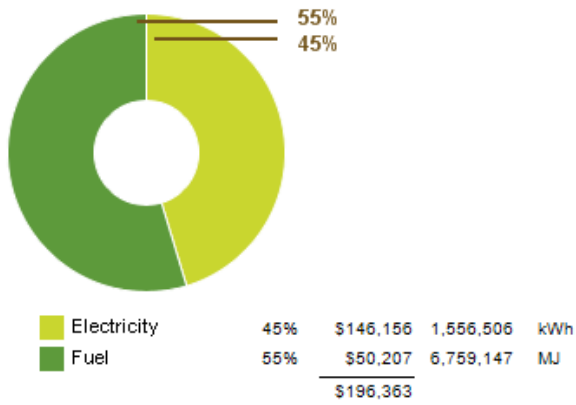
Roof Mounted PV System (Low efficiency):	172,609 kWh / yr
Roof Mounted PV System (Medium efficiency):	345,217 kWh / yr
Roof Mounted PV System (High efficiency):	517,826 kWh / yr
Single 15' Wind Turbine Potential:	2,969 kWh / yr

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

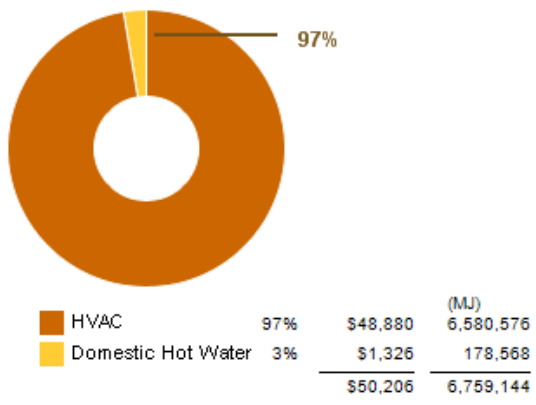
## Annual Carbon Emissions



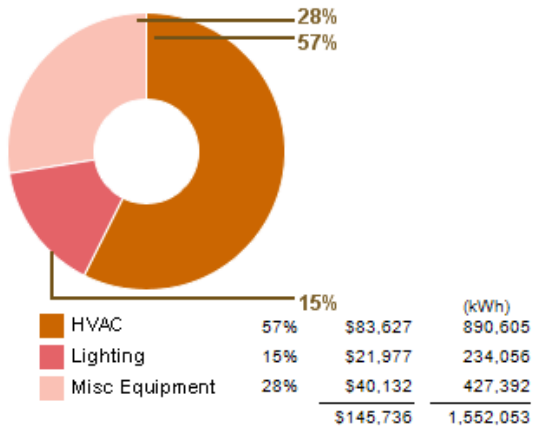
### Annual Energy Use/Cost



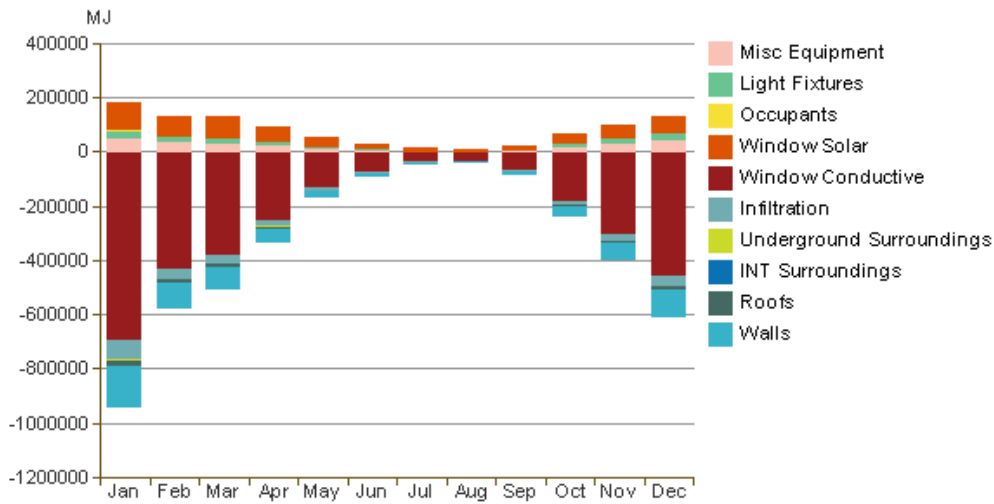
### Energy Use: Fuel



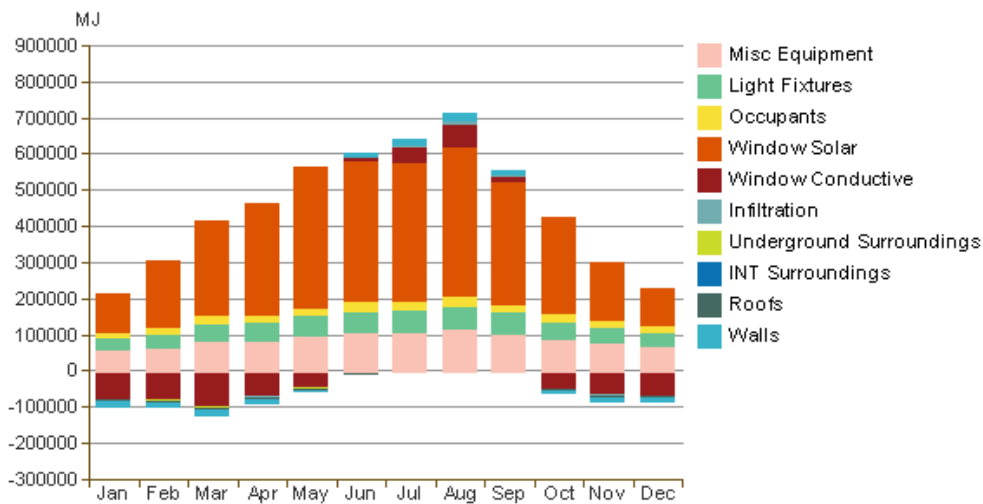
### Energy Use: Electricity



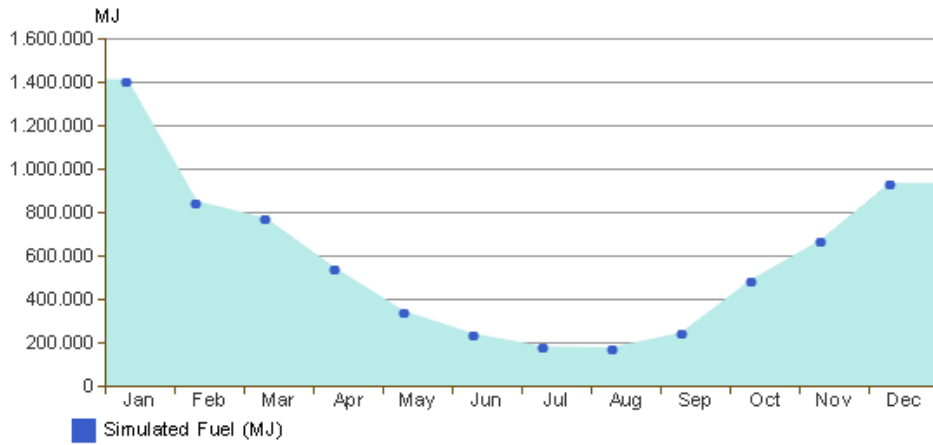
### Monthly Heating Load



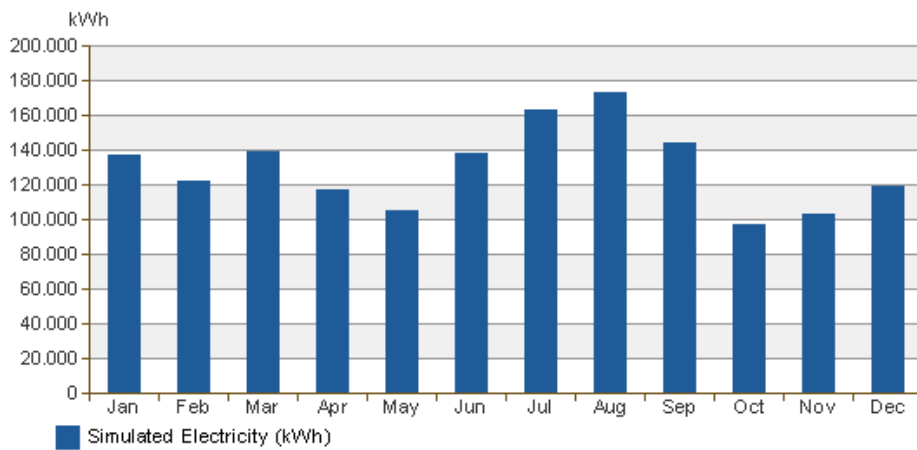
### Monthly Cooling Load



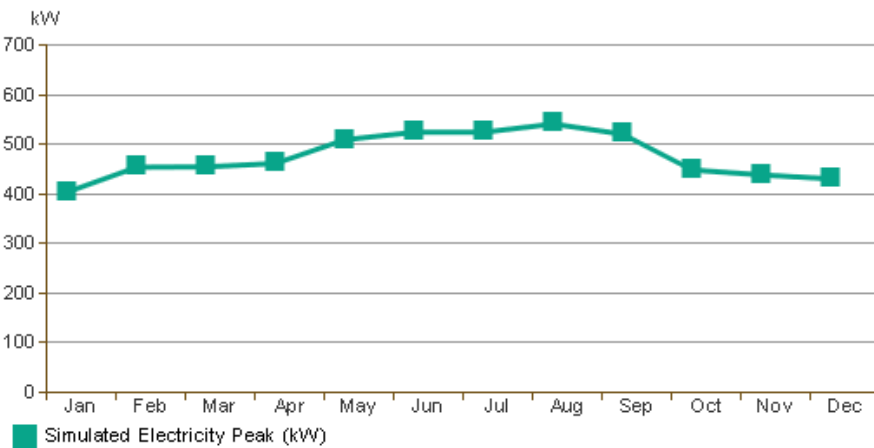
### Monthly Fuel Consumption



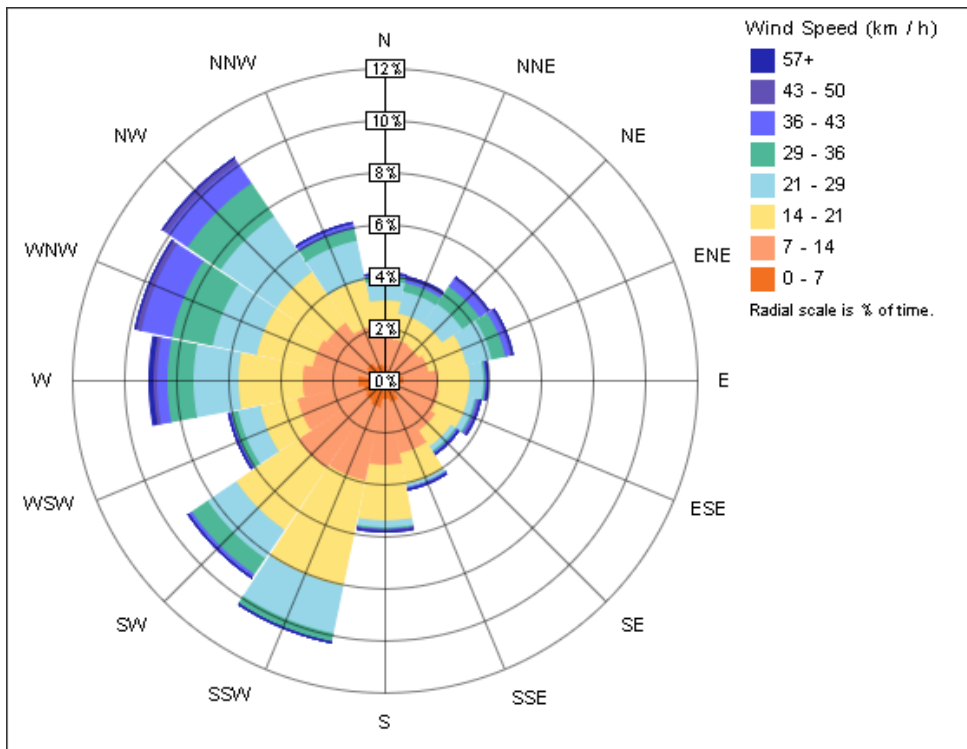
### Monthly Electricity Consumption



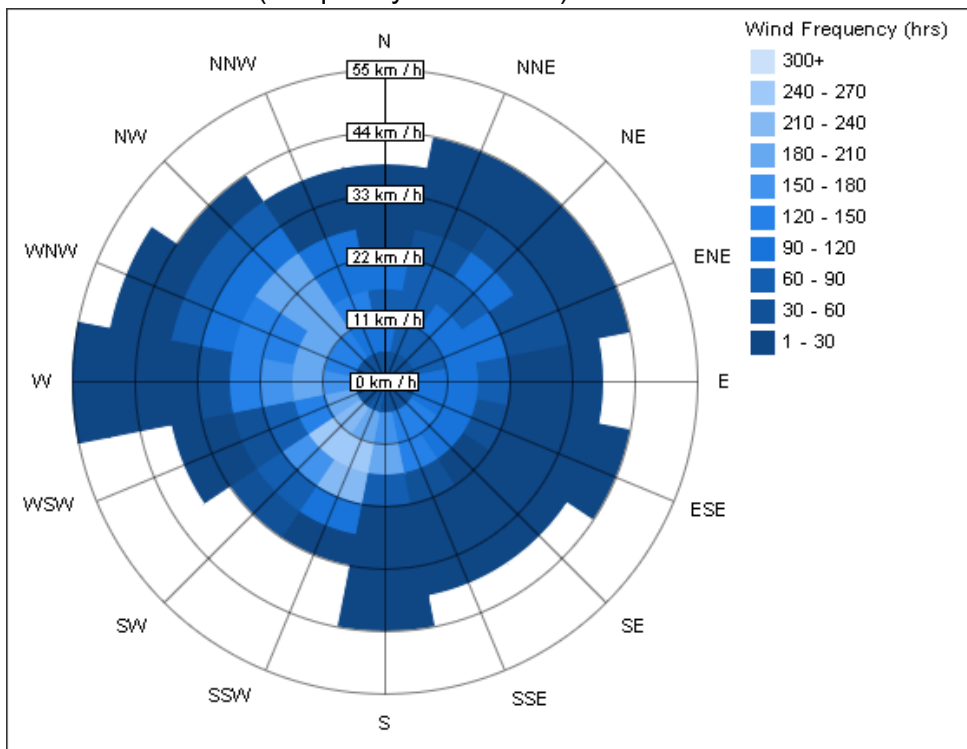
### Monthly Peak Demand



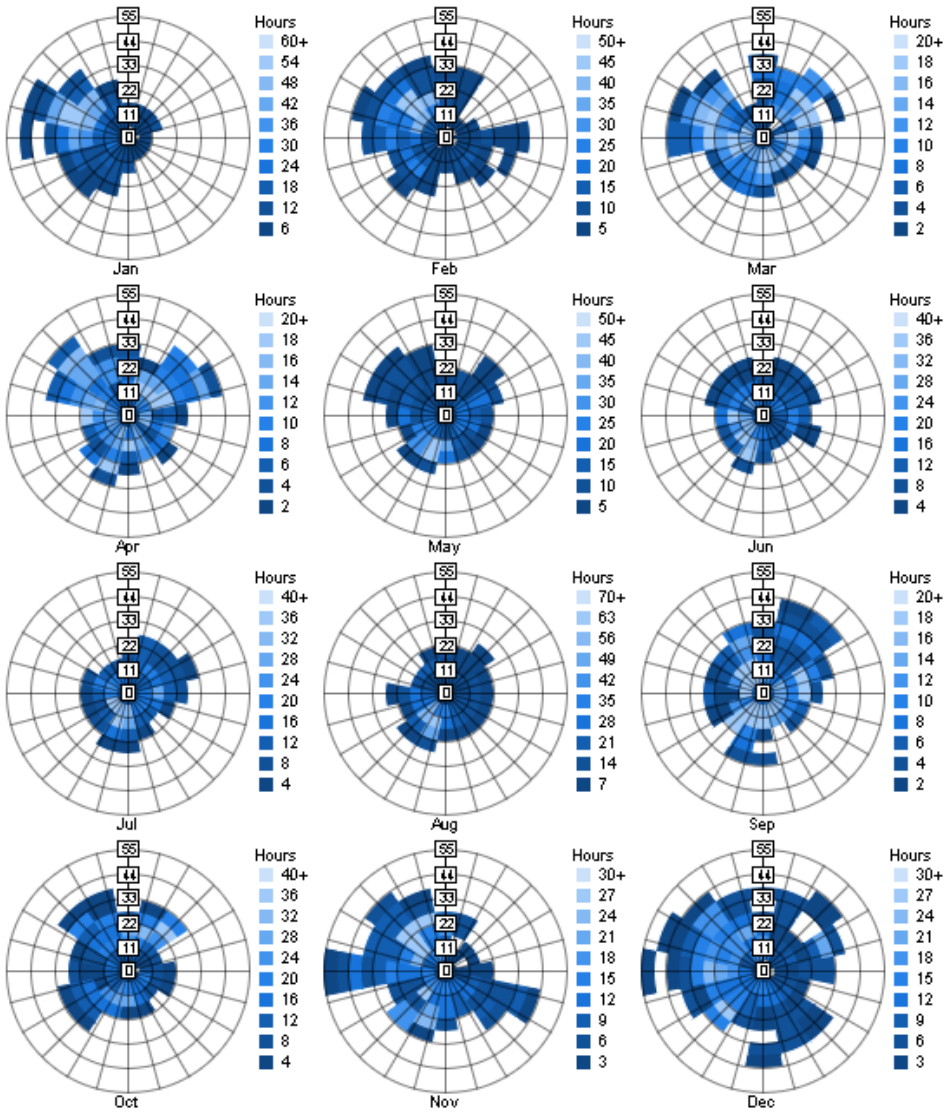
### Annual Wind Rose (Speed Distribution)



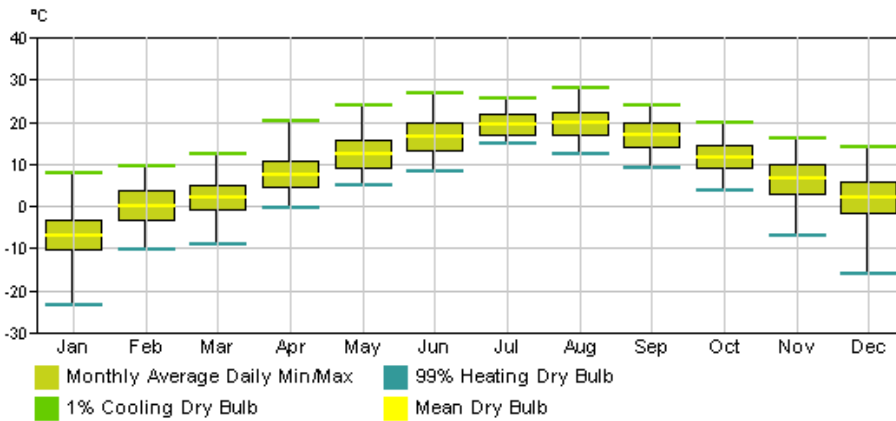
Annual Wind Rose (Frequency Distribution)



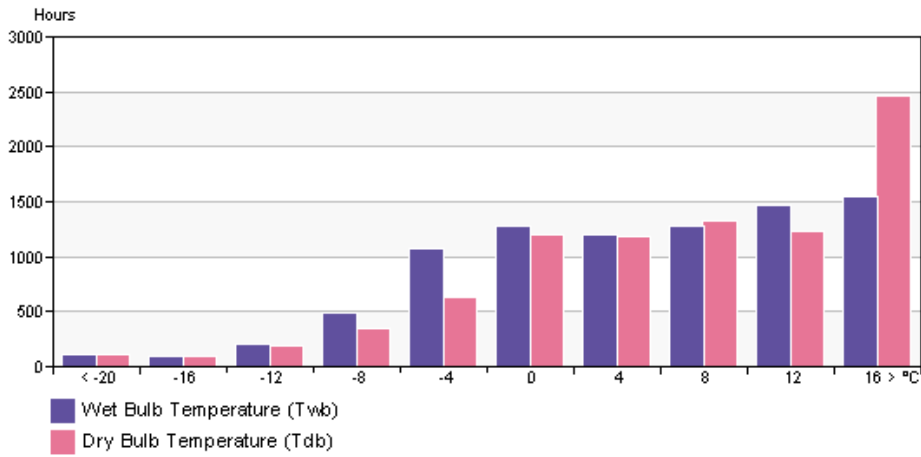
Monthly Wind Roses



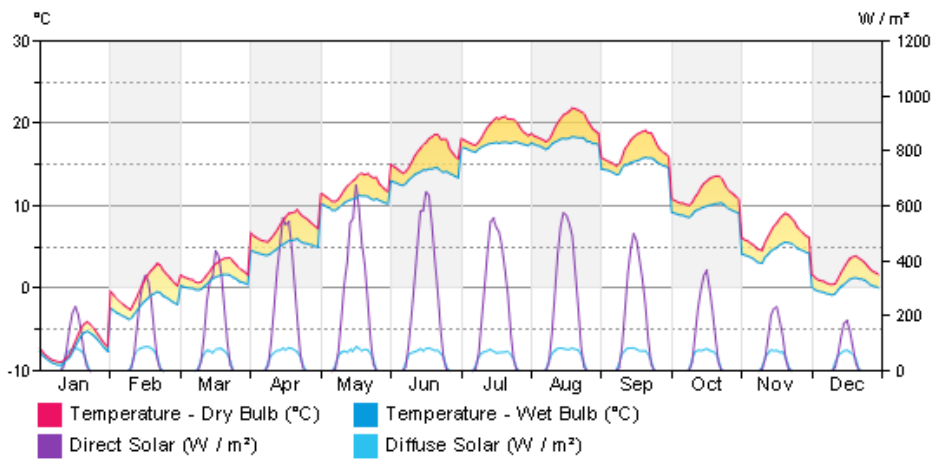
Monthly Design Data



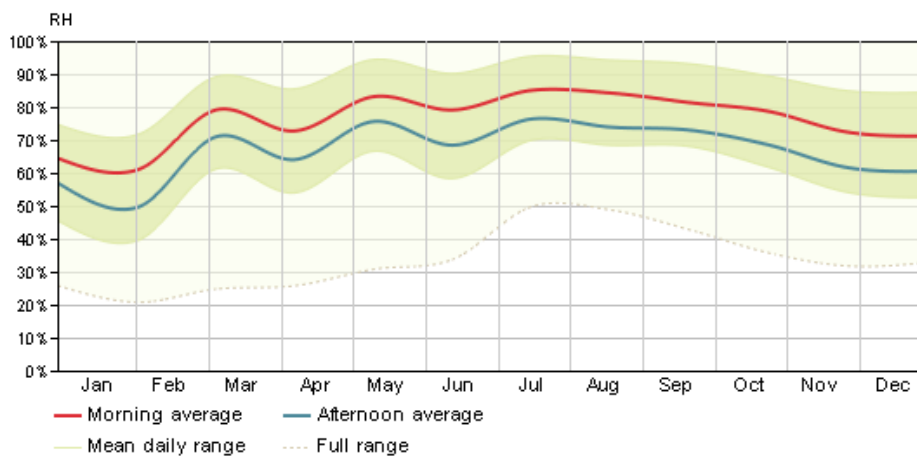
Annual Temperature Bins



### Diurnal Weather Averages



### Humidity



© Copyright 2011 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.