

# Autodesk®

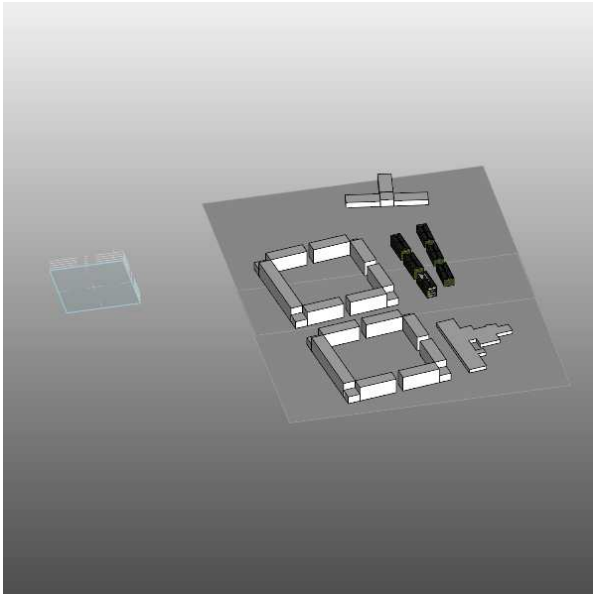
## Selina modificato 31.051

### Selina modificato 31.05 Analysis (1)

Analyzed at 5/31/2012 6:59:06 PM

Version 2013.0.25.942(DOE-2.2-44e4)

#### Mass



#### Building Performance Factors

Location:	Via Amleto Palermi, 00139 Roma, Italia
Weather Station:	160240
Outdoor Temperature:	Max: 37°C/Min: -2°C
Floor Area:	6,780 m <sup>2</sup>
Exterior Wall Area:	5,445 m <sup>2</sup>
Average Lighting Power:	7.53 W / m <sup>2</sup>
People:	218 people
Exterior Window Ratio:	0.40
Electrical Cost:	\$0.28 / kWh
Fuel Cost:	\$1.41 / Therm

#### Energy Use Intensity

Electricity EUI:	189 kWh / sm / yr
Fuel EUI:	663 MJ / sm / yr
Total EUI:	1,345 MJ / sm / yr

#### Life Cycle Energy Use/Cost

Life Cycle Electricity Use:	38,537,760 kWh
Life Cycle Fuel Use:	134,880,005 MJ
Life Cycle Energy Cost:	\$5,646,343

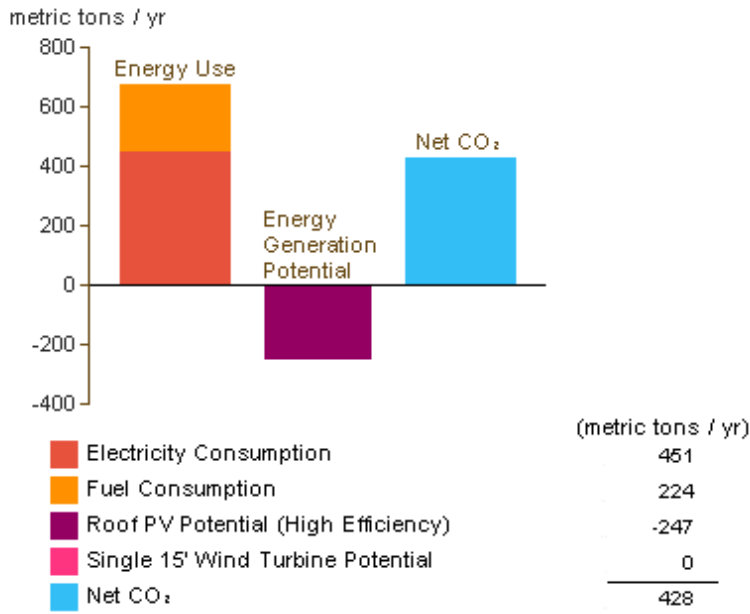
\*30-year life and 6.1% discount rate for costs

#### Renewable Energy Potential

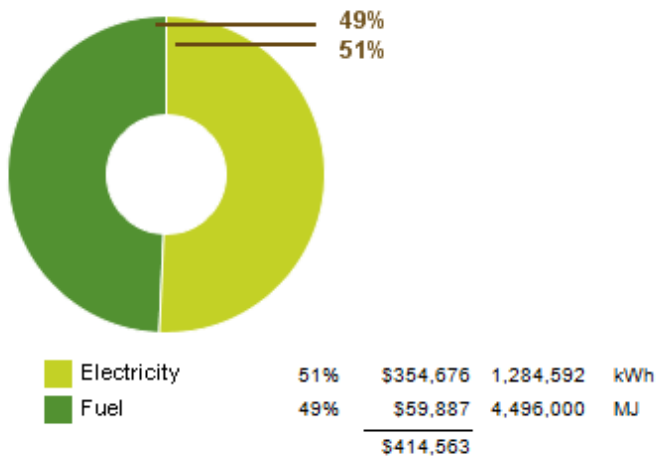
Roof Mounted PV System (Low efficiency):	234,818 kWh / yr
Roof Mounted PV System (Medium efficiency):	469,636 kWh / yr
Roof Mounted PV System (High efficiency):	704,454 kWh / yr
Single 15' Wind Turbine Potential:	837 kWh / yr

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

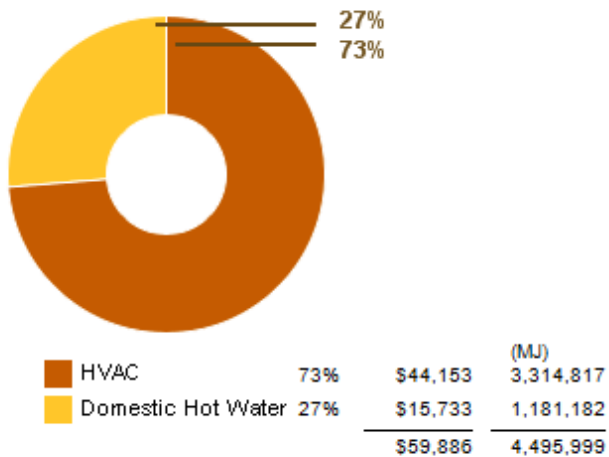
**Annual Carbon Emissions**



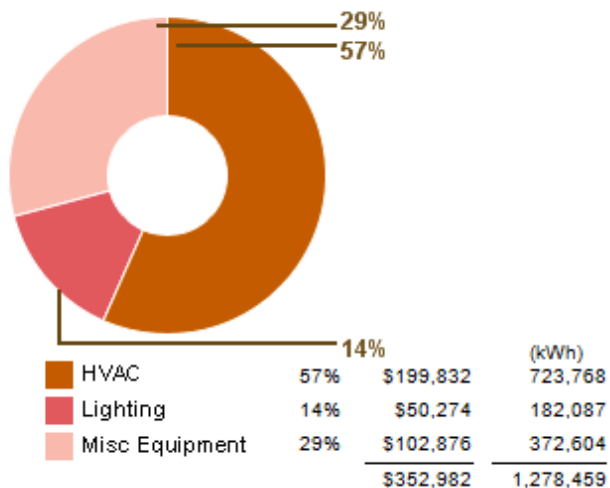
**Annual Energy Use/Cost**



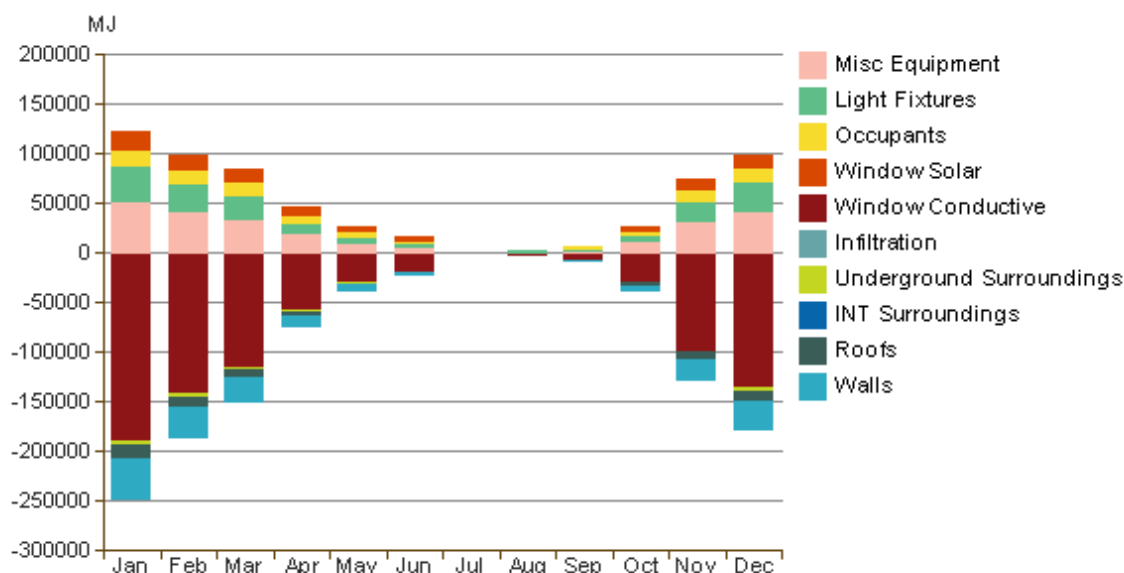
**Energy Use: Fuel**



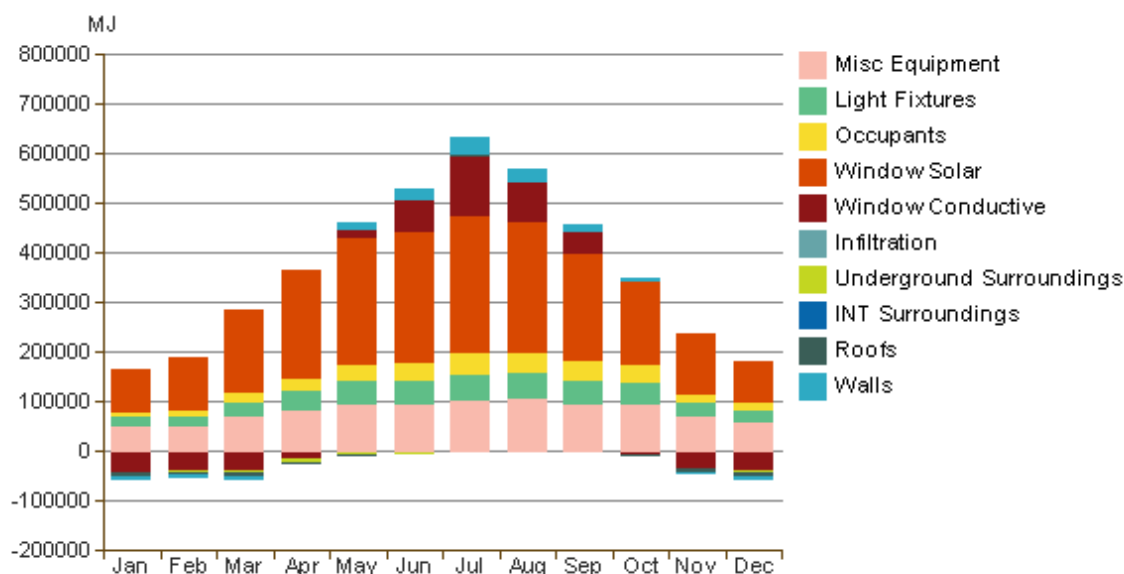
### Energy Use: Electricity



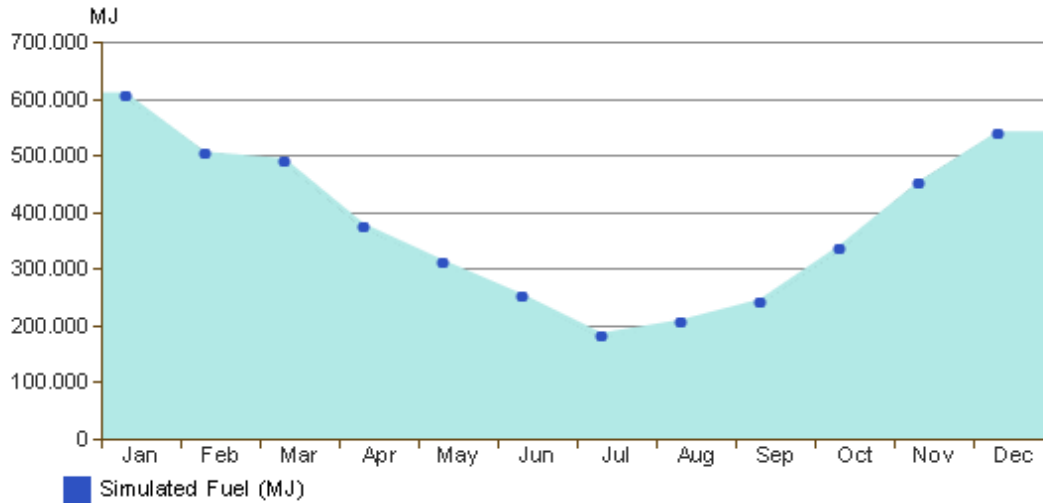
### Monthly Heating Load



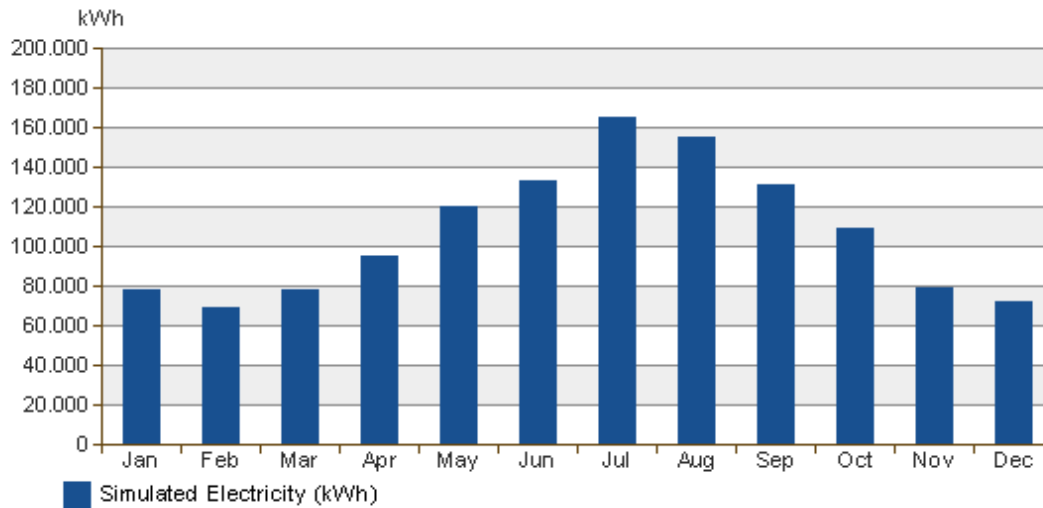
### Monthly Cooling Load



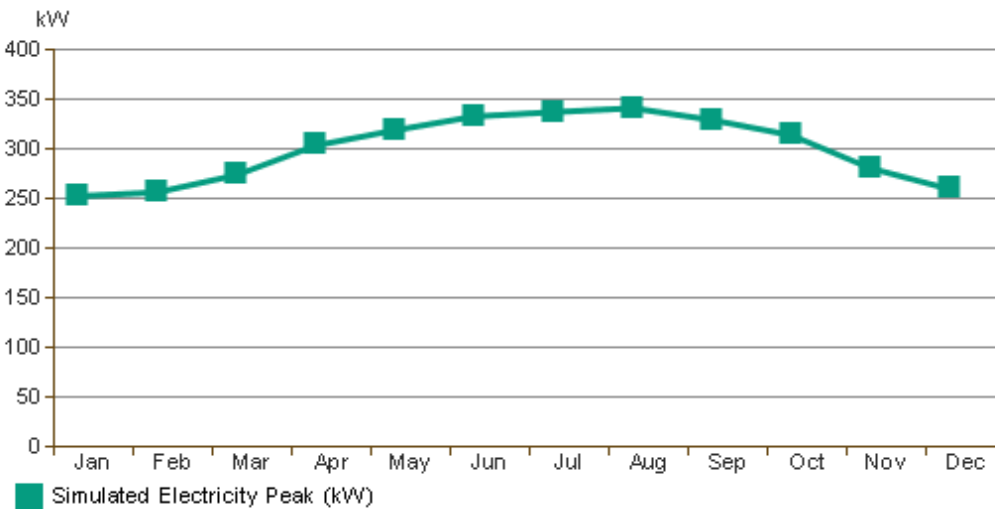
**Monthly Fuel Consumption**



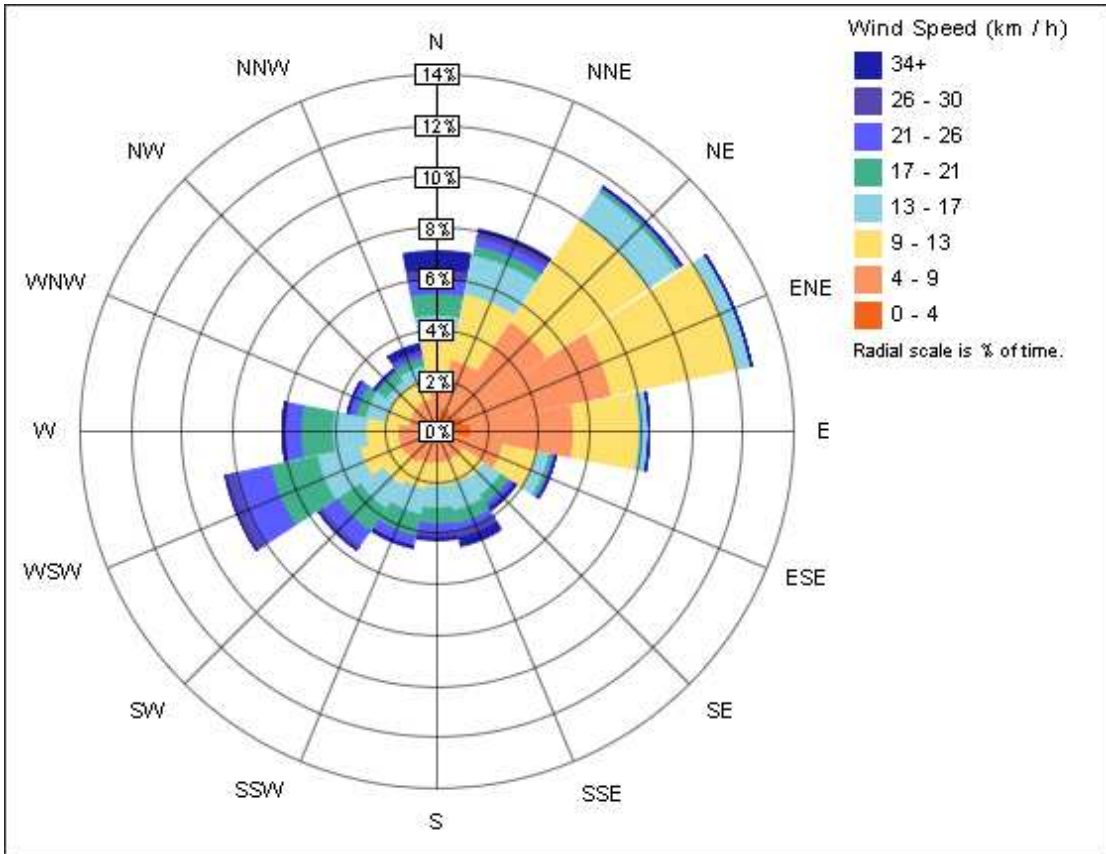
**Monthly Electricity Consumption**



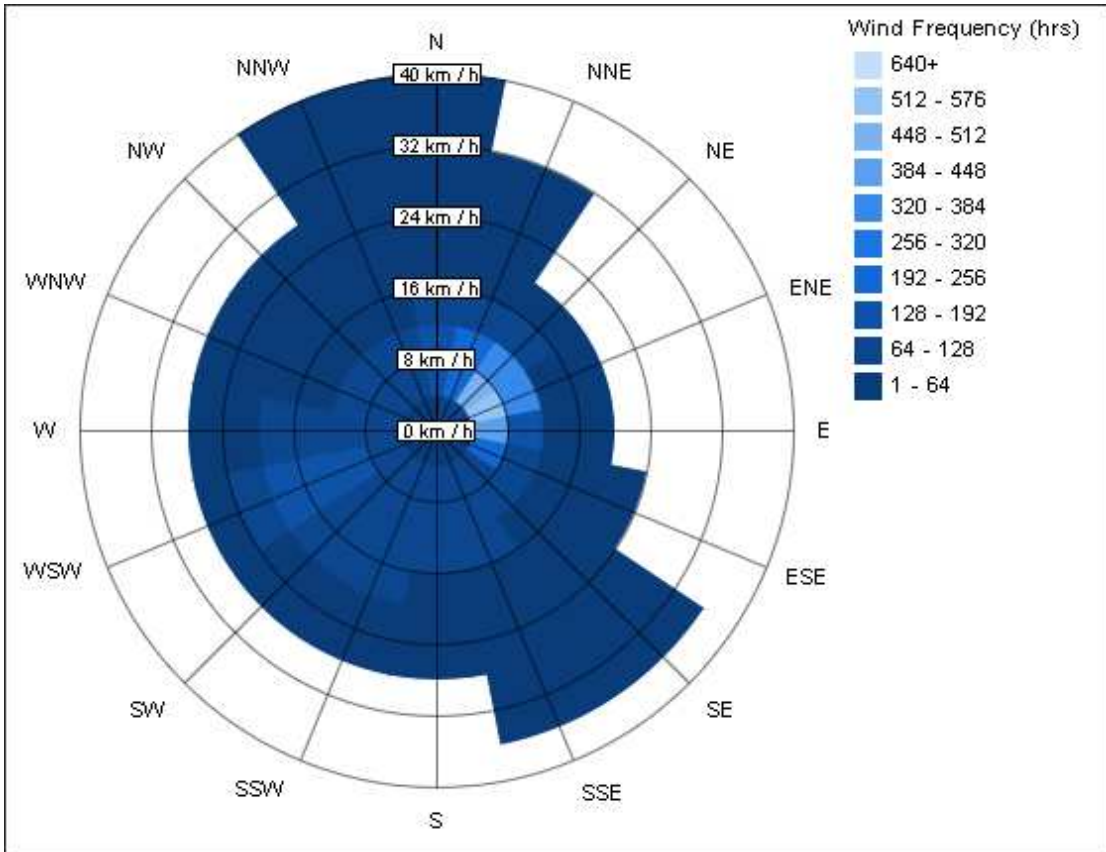
**Monthly Peak Demand**



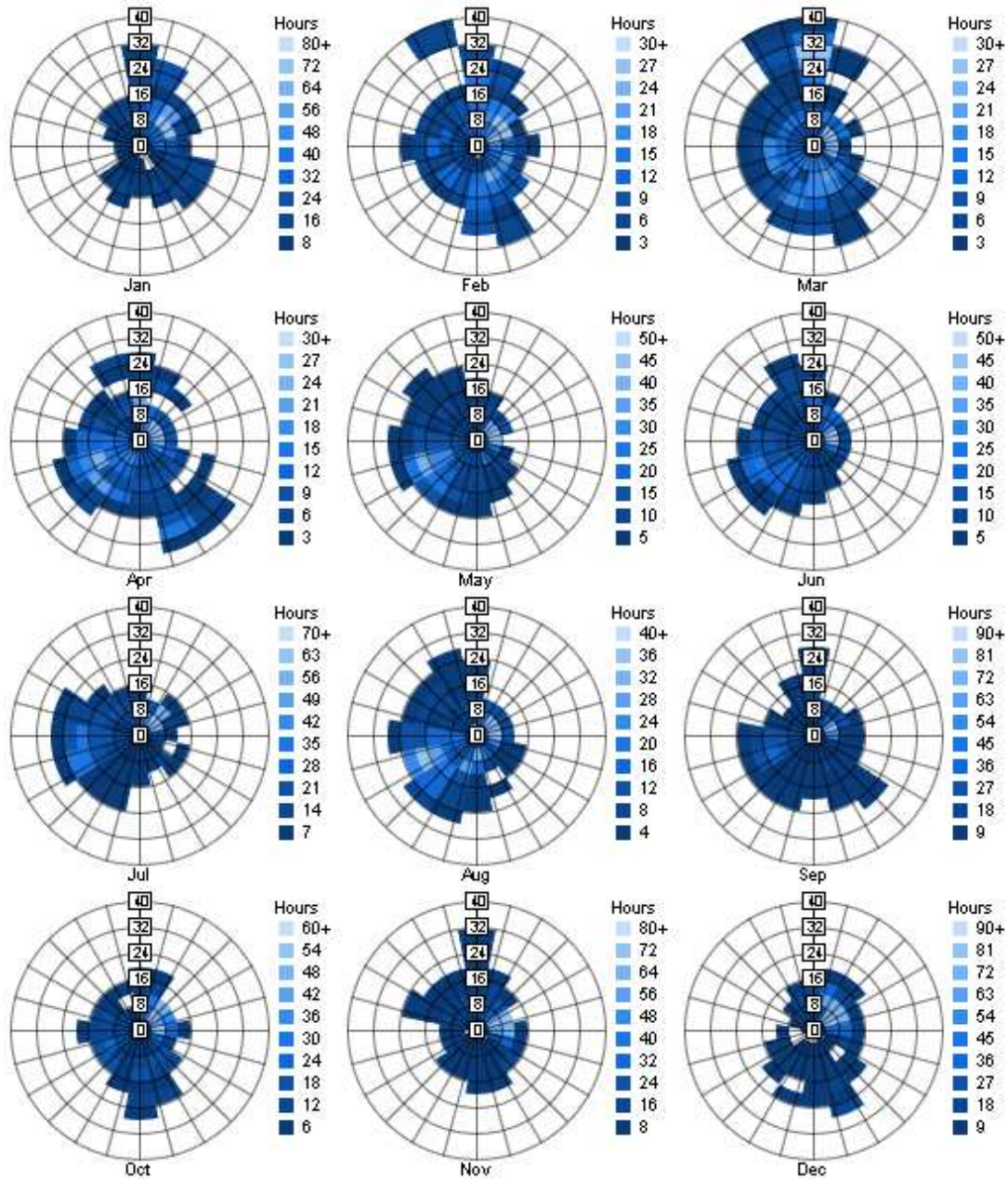
**Annual Wind Rose (Speed Distribution)**



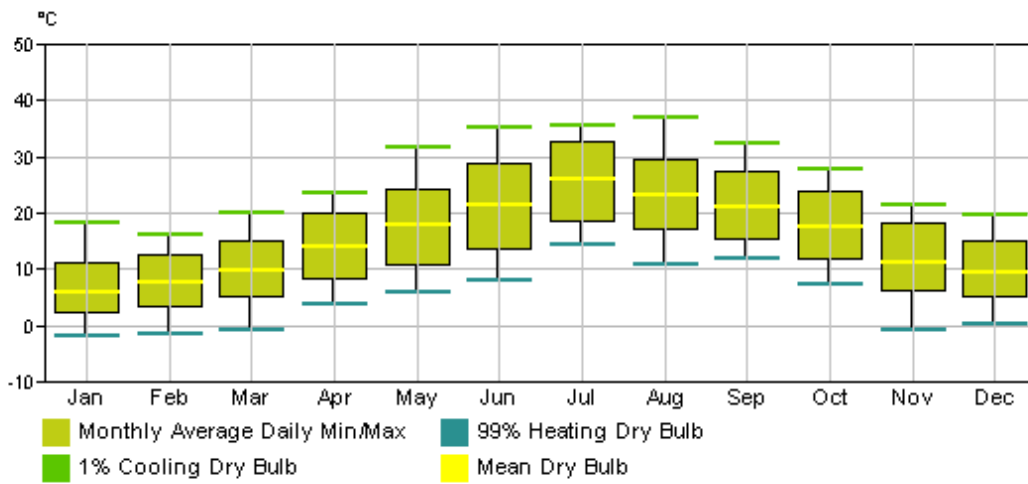
Annual Wind Rose (Frequency Distribution)



Monthly Wind Roses

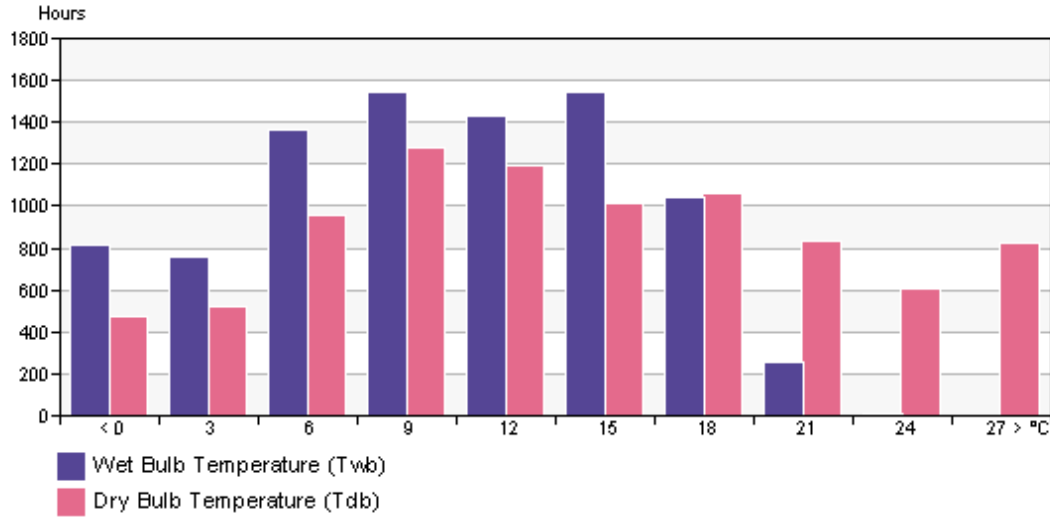


**Monthly Design Data**

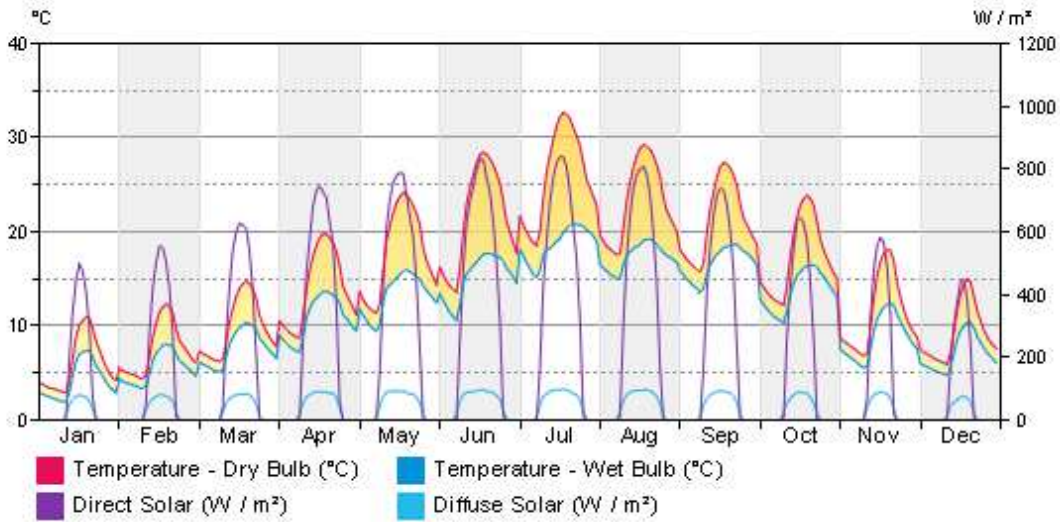


**Annual Temperature Bins**

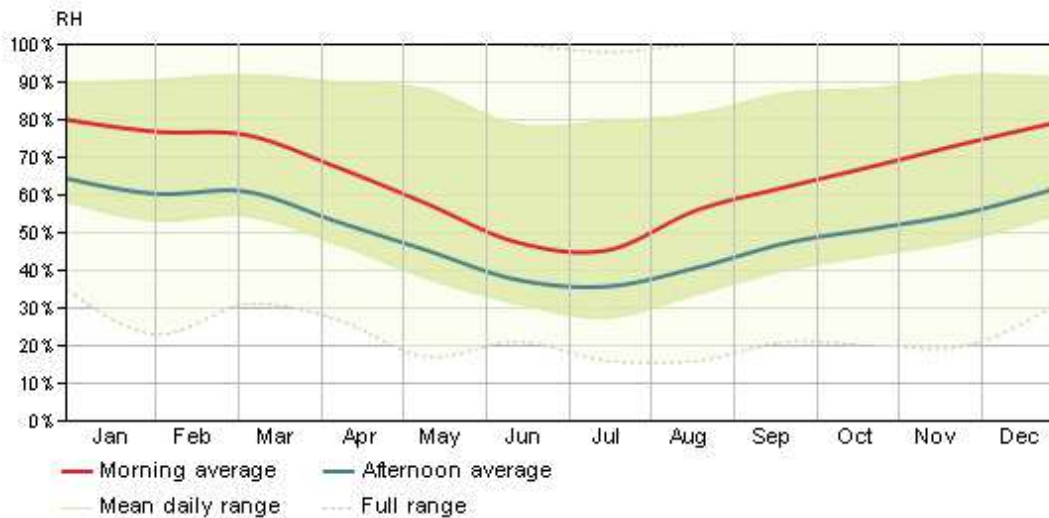




**Diurnal Weather Averages**



**Humidity**



James J. Hirsch & Associates, the Regents of the University of California, and others.

## Revit Conceptual Energy Analysis Data