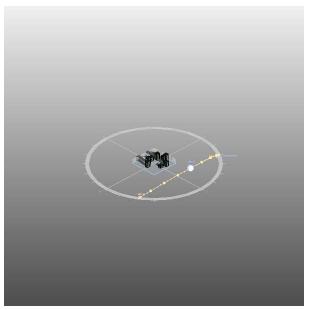


# Project2 Project2 Analysis (1)

Analyzed at 12/6/2011 10:26:38 AM Version 2012.2.21.3448(DOE-2.2-44e4)

#### Mass



#### **Building Performance Factors**

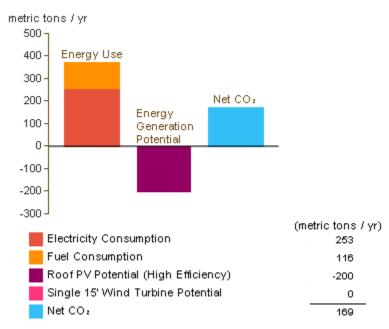
Location:	Belgrade, Serbia
Weather Station:	171981
Outdoor Temperature:	Max: 35°C/Min: -15°C
Floor Area:	720 m²
Exterior Wall Area:	4,846 m²
Average Lighting Power:	10.87 W / m²
People:	25 people
Exterior Window Ratio:	0.40
Electrical Cost:	\$0.09 / kWh
Fuel Cost:	\$0.78 / Therm
Energy Use Intensity	
Electricity EUI:	458 kWh / sm / yr
Fuel EUI:	3,246 MJ / sm / yr
Total EUI:	4,895 MJ / sm / yr
Life Cycle Energy Use/Cost	
Life Cycle Electricity Use:	9,895,626 kWh
Life Cycle Fuel Use:	70,106,520 MJ
Life Cycle Energy Cost:	\$658,279

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

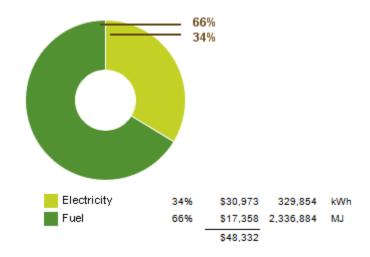
#### **Renewable Energy Potential**

Roof Mounted PV System (Low efficiency):	86,965 kWh / yr
Roof Mounted PV System (Medium efficiency):	173,930 kWh / yr
Roof Mounted PV System (High efficiency):	260,895 kWh / yr
Single 15' Wind Turbine Potential:	670 kWh / yr
*PV efficiencies are assumed to be 5%, 10% and 15% for low, medium and high efficiency systems	

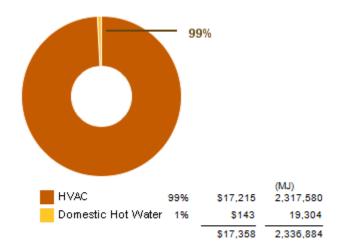
#### **Annual Carbon Emissions**



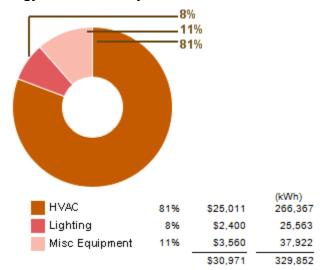
#### **Annual Energy Use/Cost**



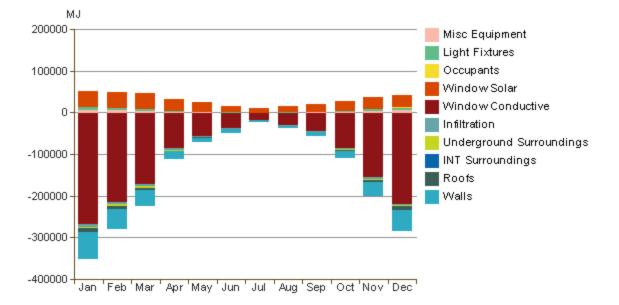
**Energy Use: Fuel** 

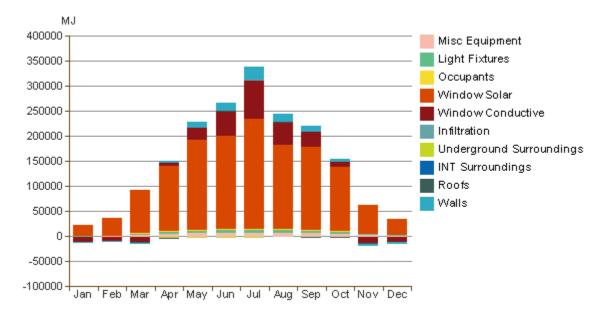


**Energy Use: Electricity** 



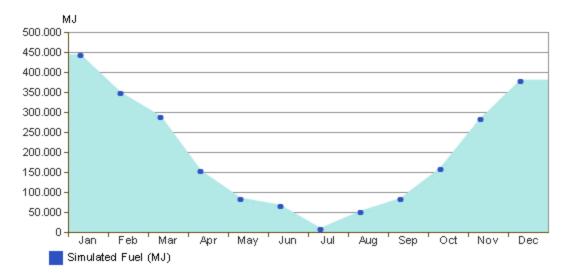
Monthly Heating Load

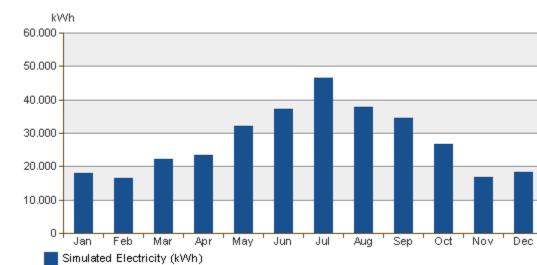


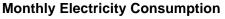


### **Monthly Cooling Load**

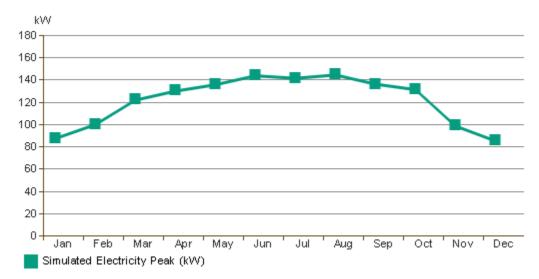
# **Monthly Fuel Consumption**

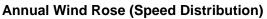


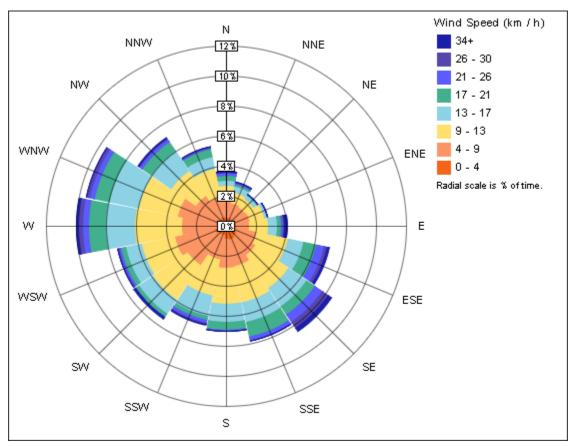




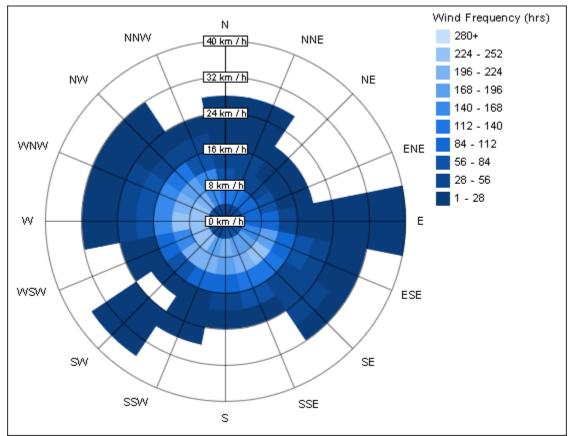


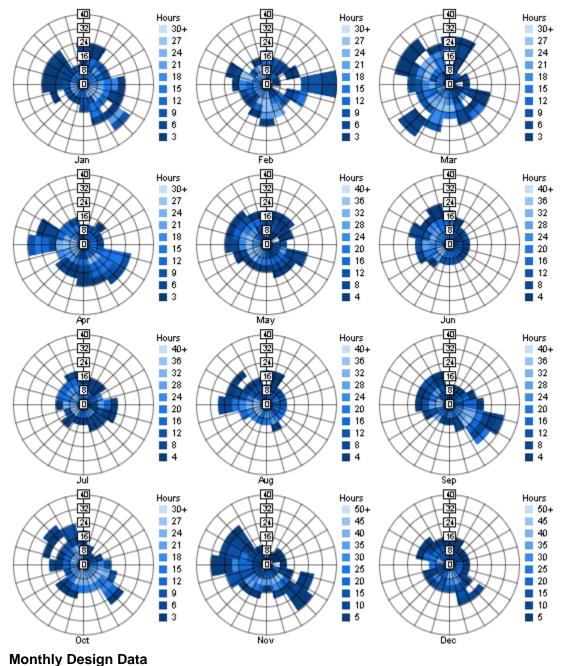




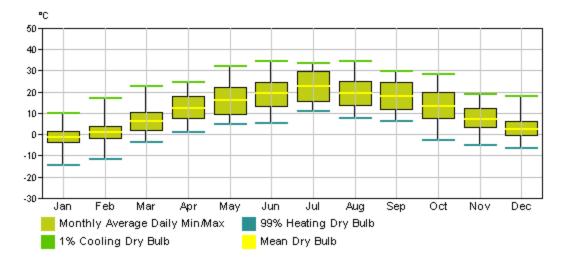


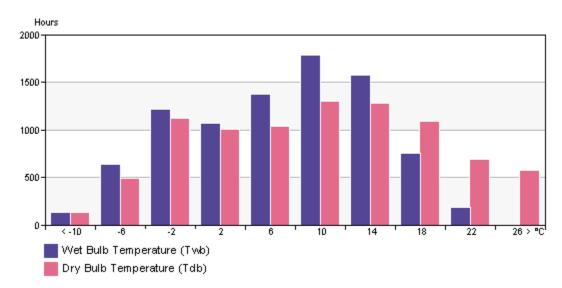
**Annual Wind Rose (Frequency Distribution)** 





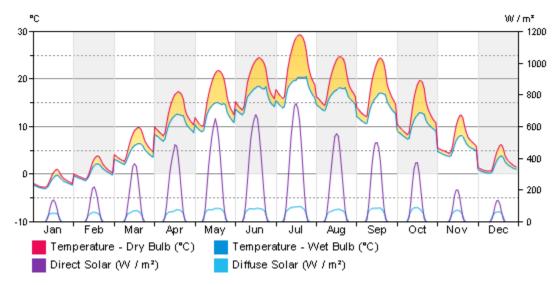
### **Monthly Wind Roses**



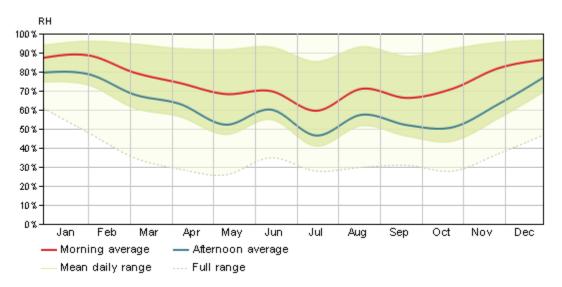


# **Annual Temperature Bins**









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# **Revit Conceptual Energy Analysis Data**