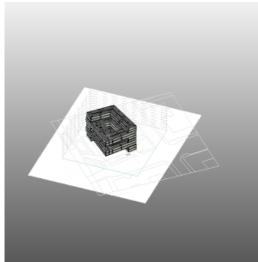
#### Autodesk Revit Conceptual Energy Analysis Report

# Project21

Analisis Final Analyzed at 6/7/2012 5:30:32 PM

#### Mass



### **Building Performance Factors**

Location:	Via Tuscolana, Roma, Italia
Weather Station:	160239
Outdoor Temperature:	Max: 36°C/Min: -2°C
Floor Area:	6,606 m²
Exterior Wall Area:	9,029 m²
Average Lighting Power:	10.87 W / m²
People:	732 people
Exterior Window Ratio:	0.50
Electrical Cost:	\$0.28 / kWh
Fuel Cost:	\$1.41 / Therm

# Energy Use Intensity

Electricity EUI:	219 kWh / sm / yr
Fuel EUI:	1,475 MJ / sm / yr
Total EUI:	2,263 MJ / sm / yr

#### Life Cycle Energy Use/Cost

Life Cycle Electricity Use:	43,373,490 kWh
Life Cycle Fuel Use:	292,279,331 MJ
Life Cycle Energy Cost:	\$7,204,337
*20 year life and 6 1% discount rate for costs	

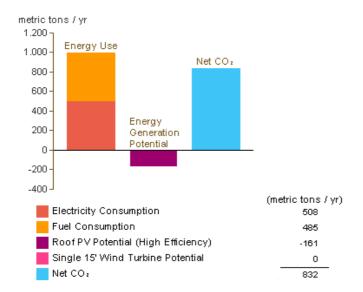
\*30-year life and 6.1% discount rate for costs

# Renewable Energy Potential

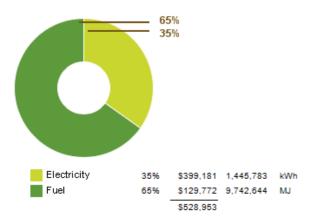
Roof Mounted PV System (Low efficiency):	153,344 kWh / yr	
Roof Mounted PV System (Medium efficiency):	306,688 kWh / yr	
Roof Mounted PV System (High efficiency):	460,032 kWh / yr	
Single 15' Wind Turbine Potential:	933 kWh / yr	
*PV efficiencies are assumed to be 5%, 10% and 15% for low, medium and high efficiency systems		

# Annual Carbon Emissions

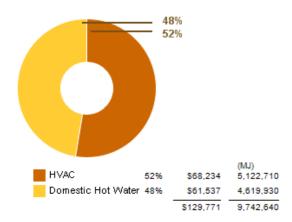
#### Autodesk Revit Conceptual Energy Analysis Report



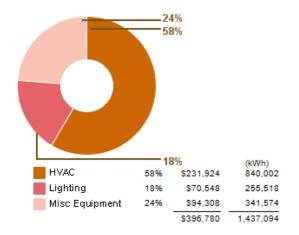
### Annual Energy Use/Cost



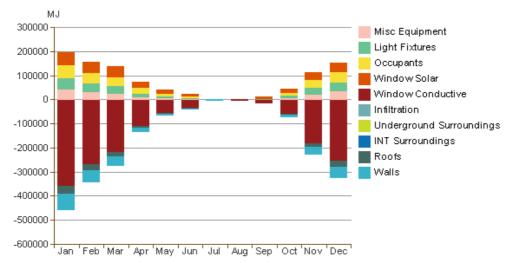
# Energy Use: Fuel

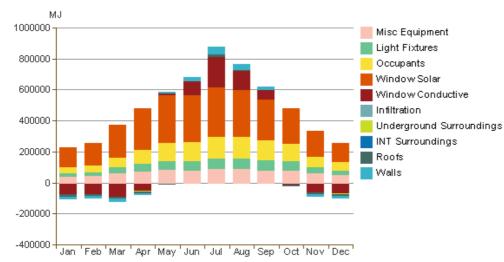


#### Energy Use: Electricity



#### Monthly Heating Load



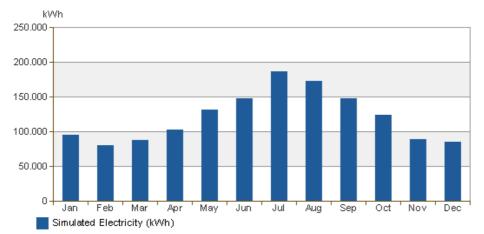


### Monthly Cooling Load

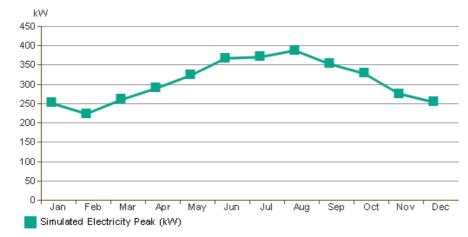
#### Monthly Fuel Consumption



# Monthly Electricity Consumption

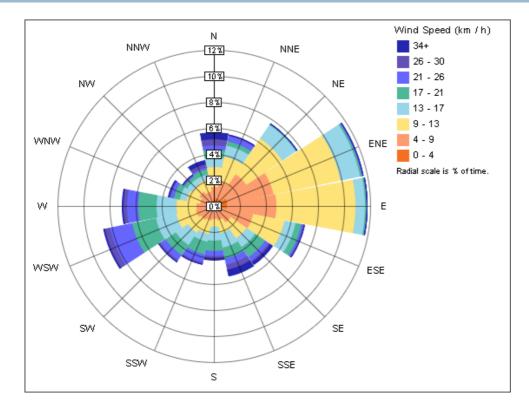


# Monthly Peak Demand

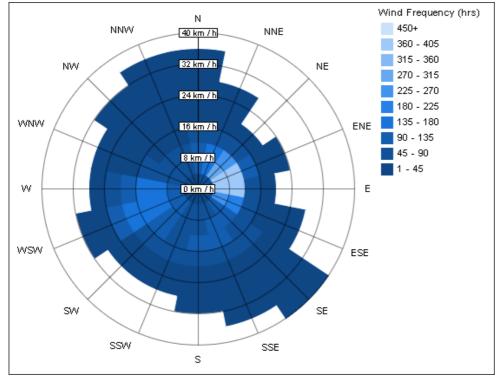


Annual Wind Rose (Speed Distribution)

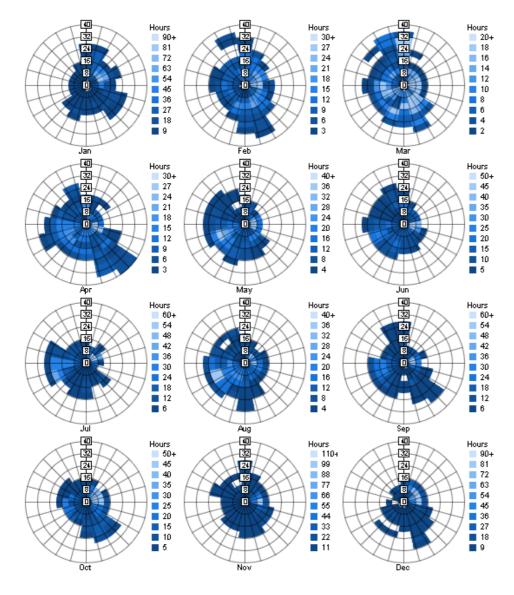
#### Autodesk Revit Conceptual Energy Analysis Report

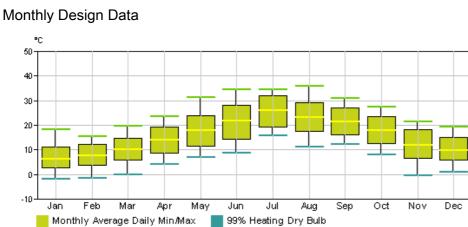


Annual Wind Rose (Frequency Distribution)



Monthly Wind Roses

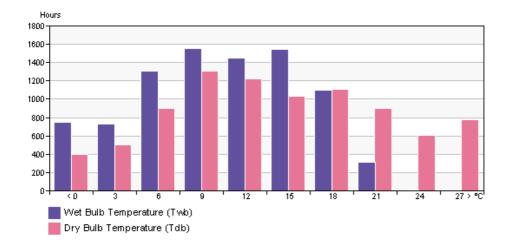




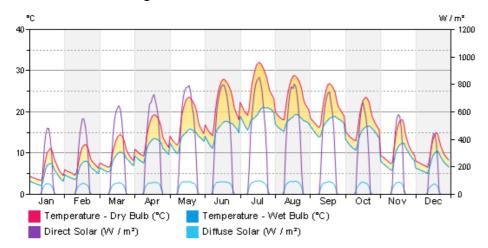
Mean Dry Bulb

Annual Temperature Bins

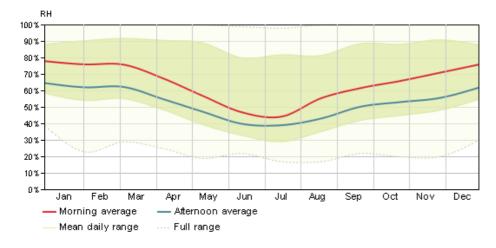
📕 1% Cooling Dry Bulb



#### **Diurnal Weather Averages**



#### Humidity



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