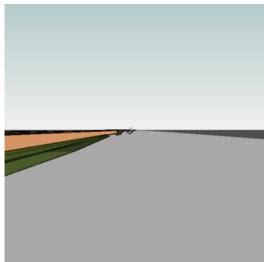
## ipotesi23

IPOTESI 5

Analyzed at 6/14/2012 10:55:06 AM

### Mass



## **Building Performance Factors**

Location:	Via Amleto Palermi, 00139 Roma, Italia
Weather Station:	160240
Outdoor Temperature:	Max: 37°C/Min: -2°C
Floor Area:	6,066 m²
Exterior Wall Area:	6,859 m²
Average Lighting Power:	10.44 W / m²
People:	972 people
Exterior Window Ratio:	0.30
Electrical Cost:	\$0.28 / kWh
Fuel Cost:	\$1.41 / Therm

## Energy Use Intensity

Electricity EUI:	178 kWh / sm / yr
Fuel EUI:	991 MJ / sm / yr
Total EUI:	1,632 MJ / sm / yr

### Life Cycle Energy Use/Cost

	Life Cycle Electricity Use:	39,548,760 kWh
	Life Cycle Fuel Use:	220,103,858 MJ
	Life Cycle Energy Cost:	\$6,288,444
*30-year life and 6.1% discount rate for costs		

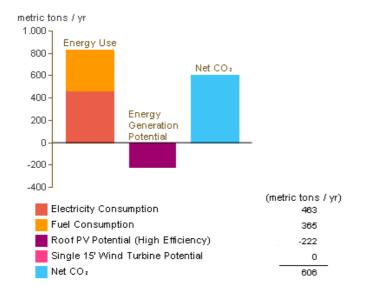
\*30-year life and 6.1% discount rate for costs

## Renewable Energy Potential

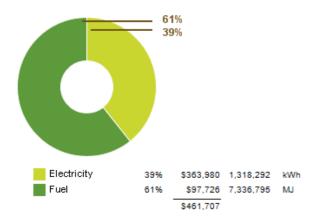
Roof Mounted PV System (Low efficiency):	211,028 kWh / yr
Roof Mounted PV System (Medium efficiency):	422,055 kWh / yr
Roof Mounted PV System (High efficiency):	633,083 kWh / yr
Single 15' Wind Turbine Potential:	837 kWh / yr
*PV efficiencies are assumed to be 5%, 10% and 15% for low, medium and high efficiency sy	

## Annual Carbon Emissions

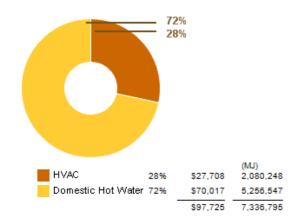
#### Autodesk Revit Conceptual Energy Analysis Report



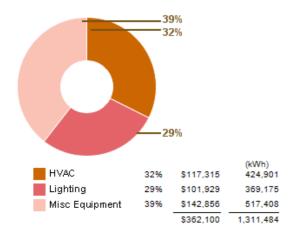
### Annual Energy Use/Cost



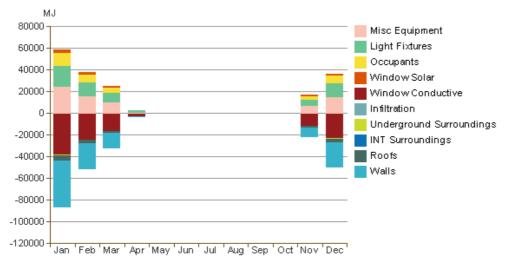
## Energy Use: Fuel

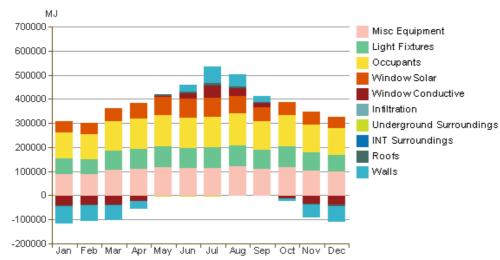


## Energy Use: Electricity



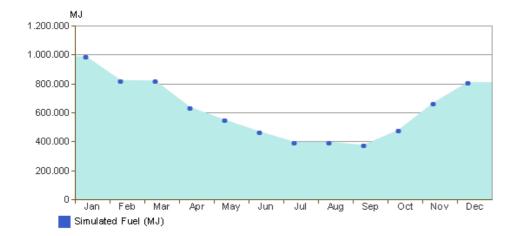
## Monthly Heating Load



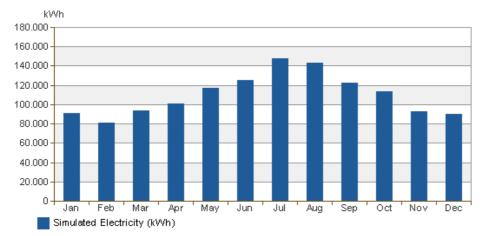


# Monthly Cooling Load

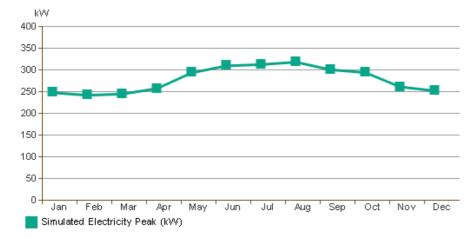
# Monthly Fuel Consumption



## Monthly Electricity Consumption

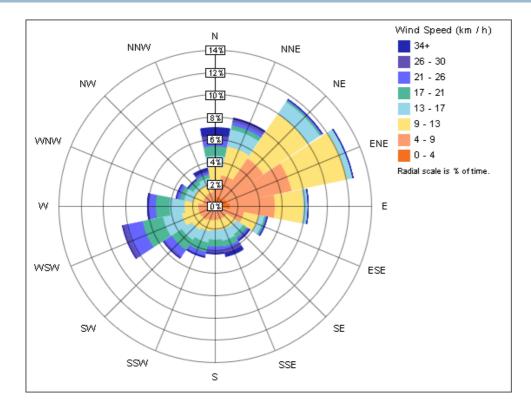


# Monthly Peak Demand

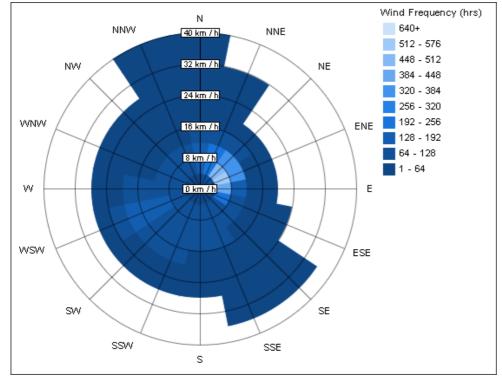


Annual Wind Rose (Speed Distribution)

#### Autodesk Revit Conceptual Energy Analysis Report

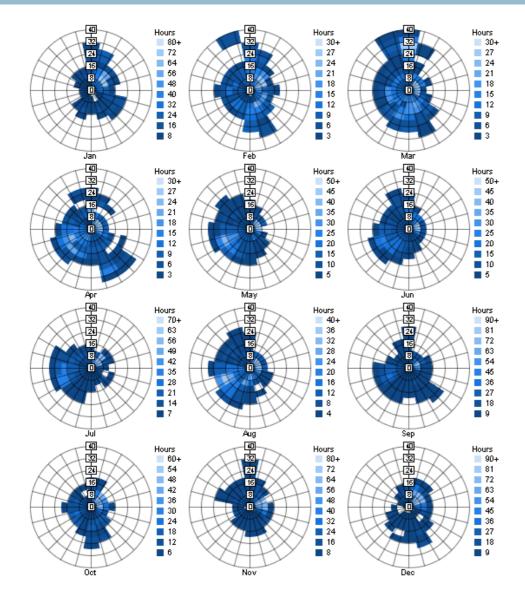


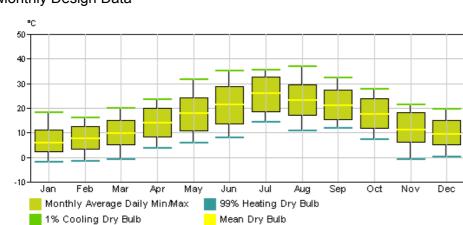
### Annual Wind Rose (Frequency Distribution)



### Monthly Wind Roses

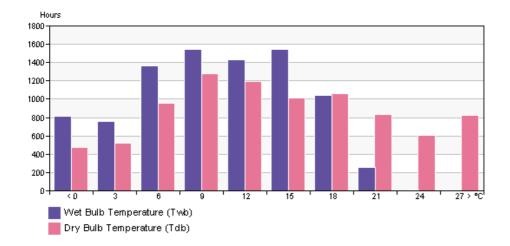
#### Autodesk Revit Conceptual Energy Analysis Report



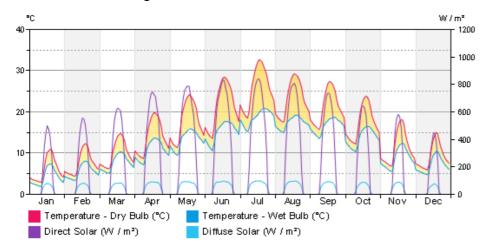


# Monthly Design Data

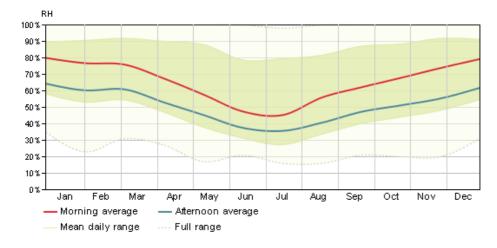
Annual Temperature Bins



### **Diurnal Weather Averages**



### Humidity



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