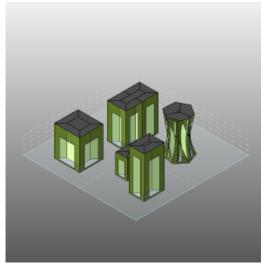
Project4

Project4 Analysis (1) Analyzed at 11/29/2011 11:39:30 AM

Mass



Building Performance Factors

Location:	Belgrade, Serbia	
Weather Station:	171981	
Outdoor Temperature:	Max: 94°F/Min: 6°F	
Floor Area:	11,806 sf	
Exterior Wall Area:	72,986 sf	
Average Lighting Power:	1.01 W / ft²	
People:	38 people	
Exterior Window Ratio:	0.40	
Electrical Cost:	\$0.09 / kWh	
Fuel Cost:	\$0.78 / Therm	

Energy Use Intensity

Electricity EUI:	47 kWh / sf / yr
Fuel EUI:	287 kBtu / sf / yr
Total EUI:	446 kBtu / sf / yr

Life Cycle Energy Use/Cost

Life Cycle Electricity Use:	16,590,762 kWh
Life Cycle Fuel Use:	1,014,833 Therms
Life Cycle Energy Cost:	\$1,068,352
*20 year life and 6 1% discount rate for costs	

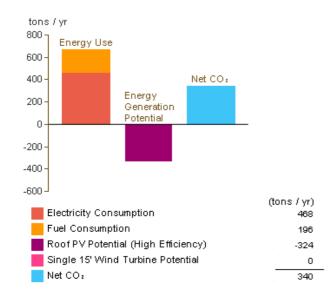
*30-year life and 6.1% discount rate for costs

Renewable Energy Potential

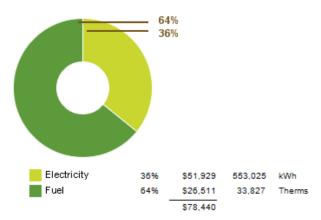
Roof Mounted PV System (Low efficiency):	127,836 kWh / yr
Roof Mounted PV System (Medium efficiency):	255,671 kWh / yr
Roof Mounted PV System (High efficiency):	383,507 kWh / yr
Single 15' Wind Turbine Potential:	670 kWh / yr
*PV efficiencies are assumed to be 5%, 10% and 15% for low, medium and high efficiency syste	

Annual Carbon Emissions

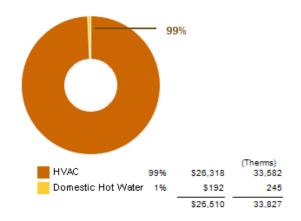
Autodesk Revit Conceptual Energy Analysis Report



Annual Energy Use/Cost

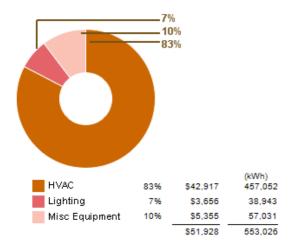


Energy Use: Fuel

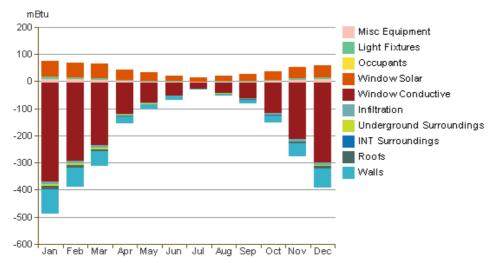


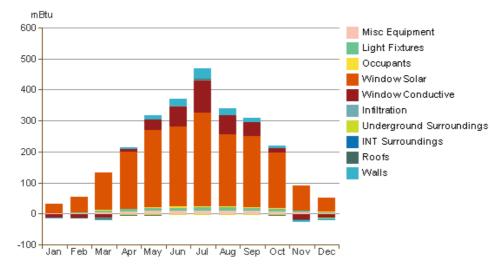
Energy Use: Electricity

Autodesk Revit Conceptual Energy Analysis Report



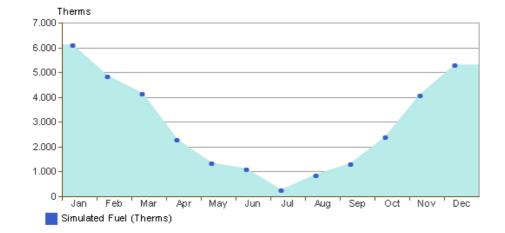
Monthly Heating Load



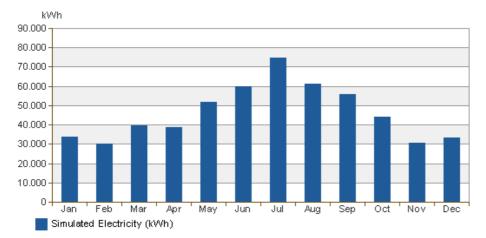


Monthly Cooling Load

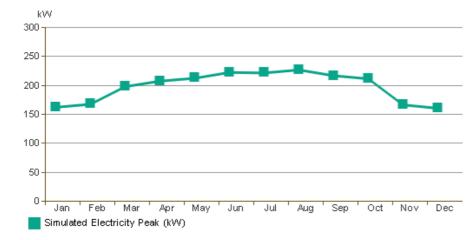
Monthly Fuel Consumption



Monthly Electricity Consumption

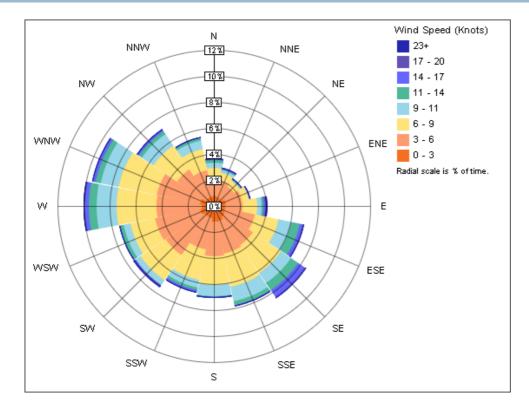


Monthly Peak Demand

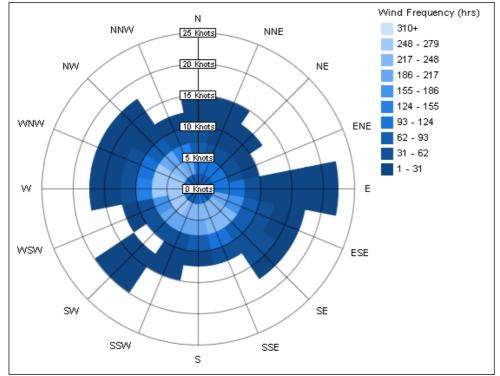


Annual Wind Rose (Speed Distribution)

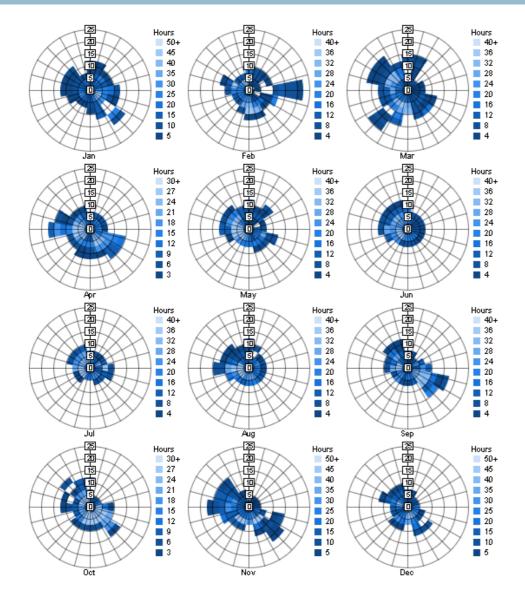
Autodesk Revit Conceptual Energy Analysis Report

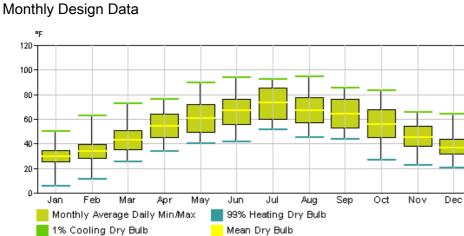


Annual Wind Rose (Frequency Distribution)

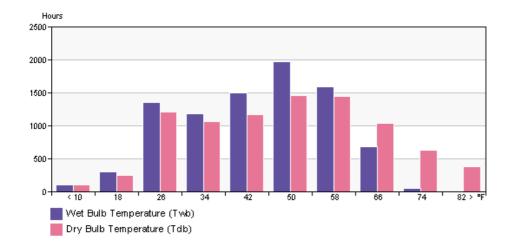


Monthly Wind Roses

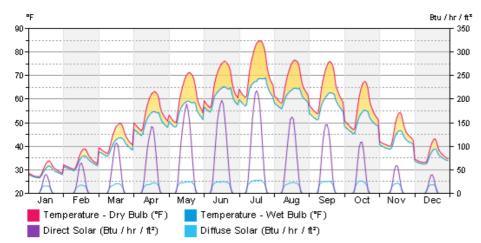




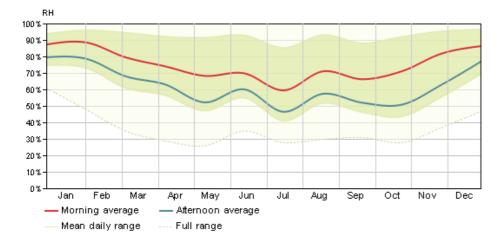
Annual Temperature Bins



Diurnal Weather Averages



Humidity



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