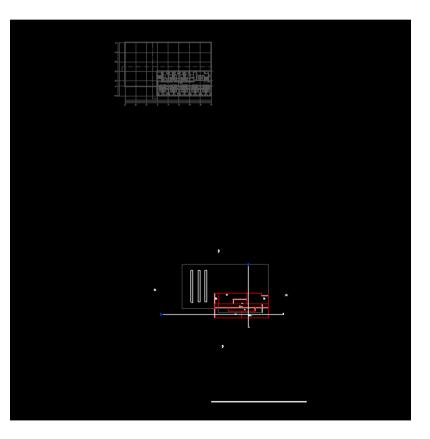
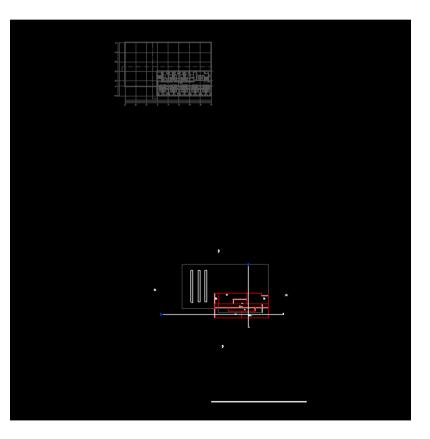


HolidayInn BEM II Analysis Energy Analysis Result





HolidayInn BEM II Analysis (1) Energy Analysis Result





HolidayInn BEM II Analysis Building Performance Factors

Location:	Moscow, Moscow
Weather Station:	188352
Outdoor Temperature:	Max: 30°C/Min: -31°C
Floor Area:	4,766 m²
Exterior Wall Area:	3,790 m²
Average Lighting Power:	11.63 W / m²
People:	264 people
Exterior Window Ratio:	0.21
Electrical Cost:	p.2.00 / kWh
Fuel Cost:	p.20.00 / Therm



HolidayInn BEM II Analysis (1) Building Performance Factors

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HolidayInn BEM II Analysis Energy Use Intensity

Electricity EUI:	888 kWh / sm / yr
Fuel EUI:	27,226 MJ / sm / yr
Total EUI:	30,422 MJ / sm / yr



HolidayInn BEM II Analysis (1) Energy Use Intensity

Electricity EUI:	165 kWh / sm / yr
Fuel EUI:	1,642 MJ / sm / yr
Total EUI:	2,235 MJ / sm / yr



HolidayInn BEM II Analysis Life Cycle Energy Use/Cost

Life Cycle Electricity Use:	116,846,010 kWh
Life Cycle Fuel Use:	3,583,200,136 MJ
Life Cycle Energy Cost:	p.414,472,794
*30-year life and 6.1% discount rate for costs	



HolidayInn BEM II Analysis (1) Life Cycle Energy Use/Cost

Life Cycle Electricity Use:	21,710,343 kWh
Life Cycle Fuel Use:	216,055,928 MJ
Life Cycle Energy Cost:	p.38,307,151
*20-year life and 6-1% discount rate for costs	

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



HolidayInn BEM II Analysis Renewable Energy Potential

Roof Mounted PV System (Low efficiency):	119,291 kWh / yr
Roof Mounted PV System (Medium efficiency):	238,583 kWh / yr
Roof Mounted PV System (High efficiency):	357,874 kWh / yr
Single 15' Wind Turbine Potential:	0 kWh / yr

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



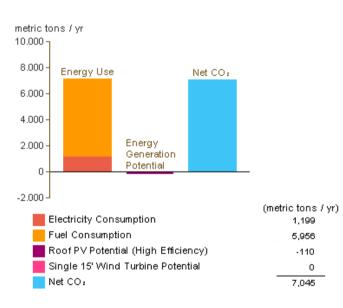
HolidayInn BEM II Analysis (1) Renewable Energy Potential

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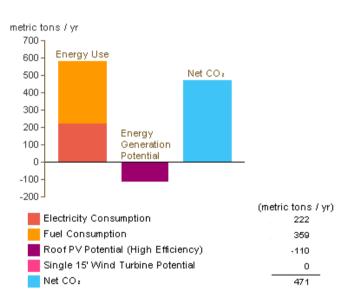


HolidayInn BEM II Analysis Annual Carbon Emissions



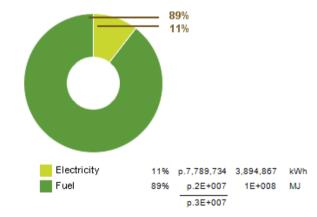


HolidayInn BEM II Analysis (1) Annual Carbon Emissions



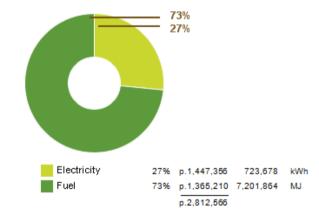


HolidayInn BEM II Analysis Annual Energy Use/Cost



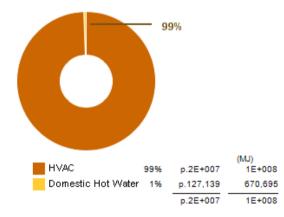


HolidayInn BEM II Analysis (1) Annual Energy Use/Cost



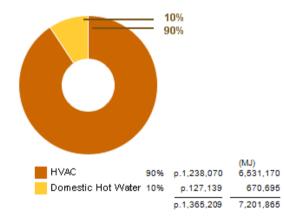


HolidayInn BEM II Analysis Energy Use: Fuel



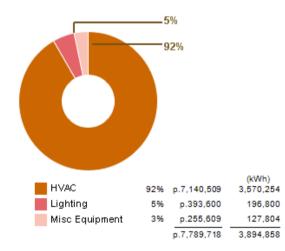


HolidayInn BEM II Analysis (1) Energy Use: Fuel



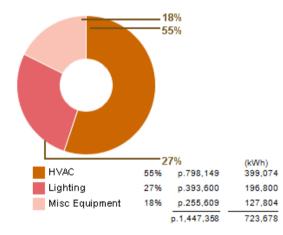


HolidayInn BEM II Analysis Energy Use: Electricity



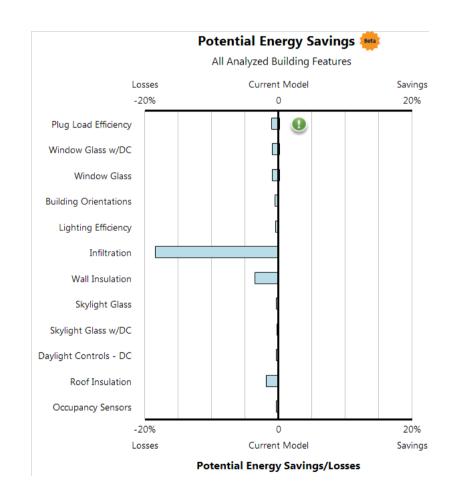


HolidayInn BEM II Analysis (1) Energy Use: Electricity



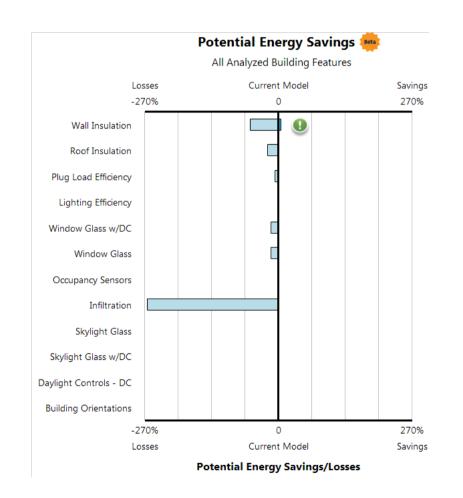


HolidayInn BEM II Analysis Potential Energy Savings



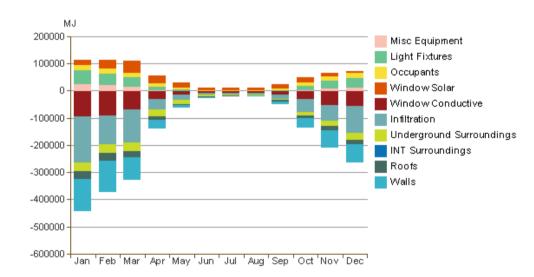


HolidayInn BEM II Analysis (1) Potential Energy Savings



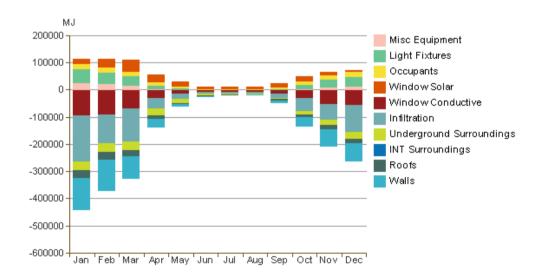


HolidayInn BEM II Analysis Monthly Heating Load



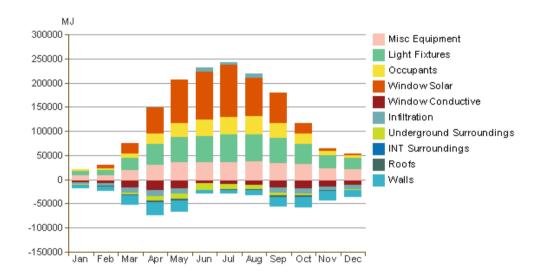


HolidayInn BEM II Analysis (1) Monthly Heating Load



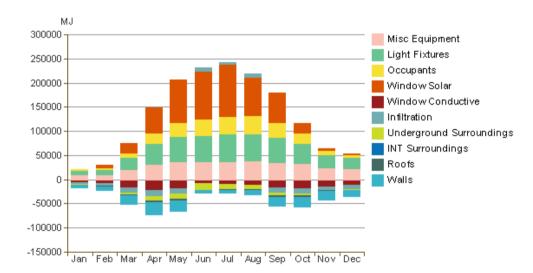


HolidayInn BEM II Analysis Monthly Cooling Load



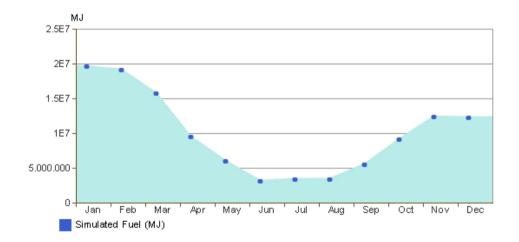


HolidayInn BEM II Analysis (1) Monthly Cooling Load



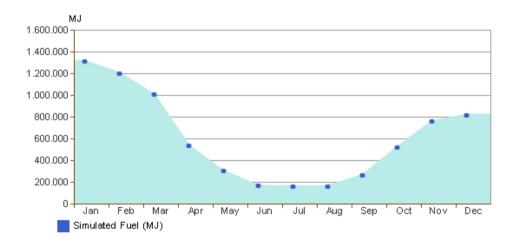


HolidayInn BEM II Analysis Monthly Fuel Consumption



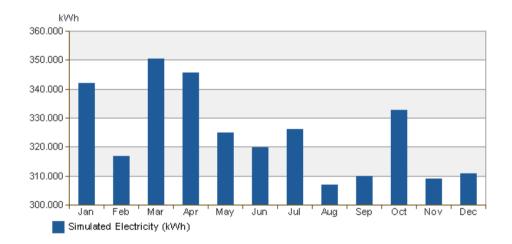


HolidayInn BEM II Analysis (1) Monthly Fuel Consumption



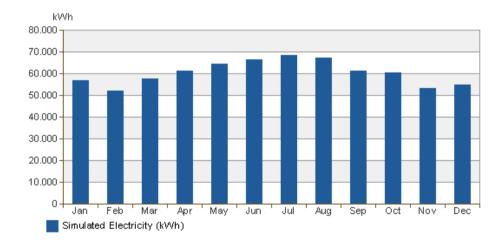


HolidayInn BEM II Analysis Monthly Electricity Consumption



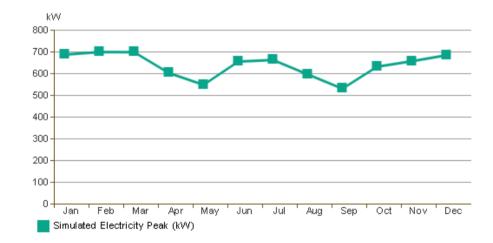


HolidayInn BEM II Analysis (1) Monthly Electricity Consumption



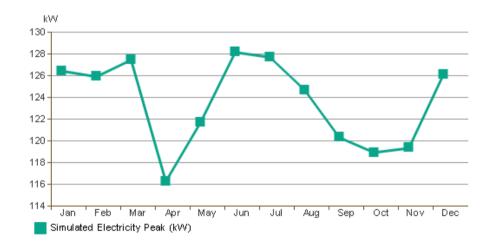


HolidayInn BEM II Analysis Monthly Peak Demand



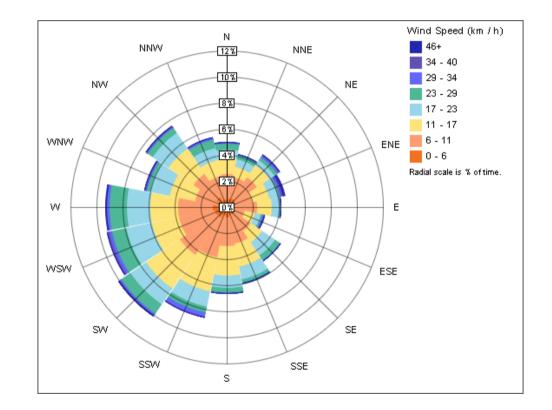


HolidayInn BEM II Analysis (1) Monthly Peak Demand



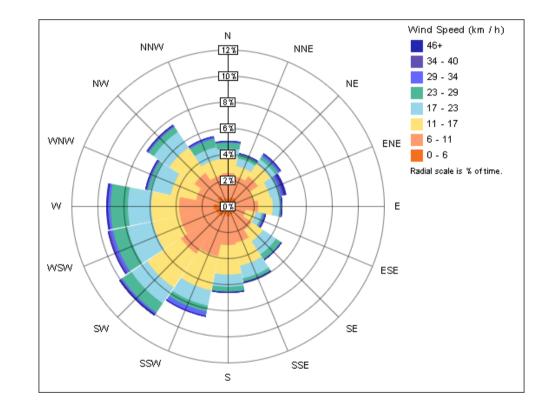


HolidayInn BEM II Analysis Annual Wind Rose (Speed Distribution)





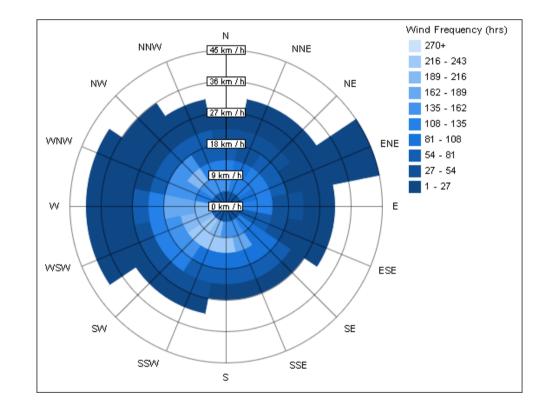
HolidayInn BEM II Analysis (1) Annual Wind Rose (Speed Distribution)





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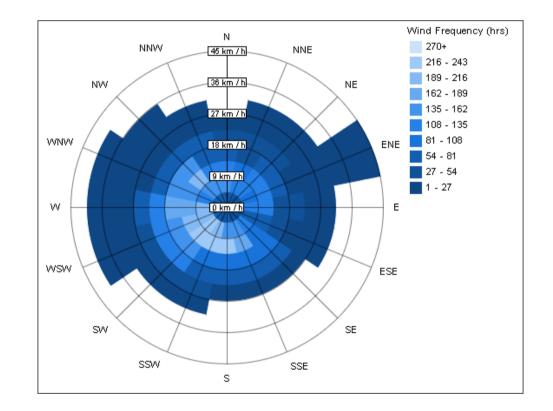
HolidayInn BEM II Analysis Annual Wind Rose (Frequency Distribution)





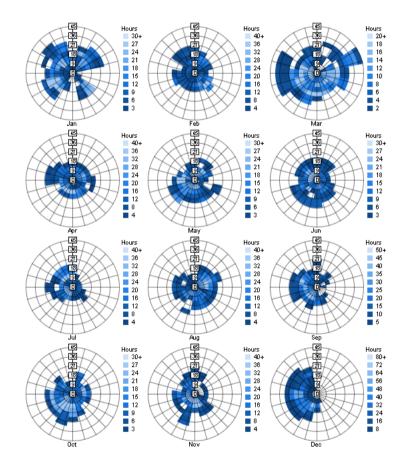
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HolidayInn BEM II Analysis (1) Annual Wind Rose (Frequency Distribution)



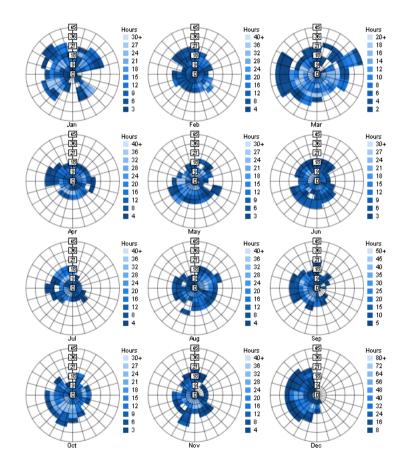


HolidayInn BEM II Analysis Monthly Wind Roses



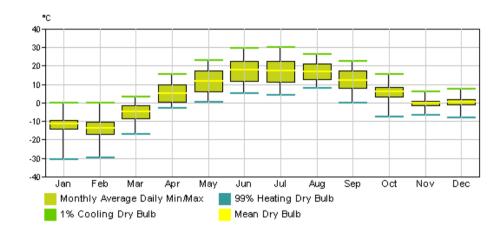


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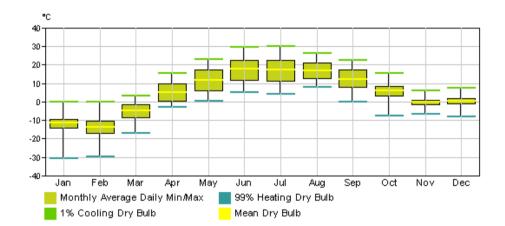


HolidayInn BEM II Analysis Monthly Design Data



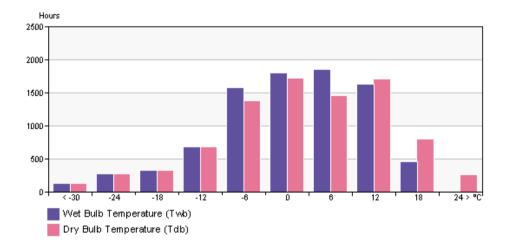


HolidayInn BEM II Analysis (1) Monthly Design Data



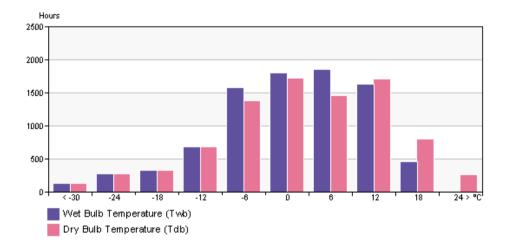


HolidayInn BEM II Analysis Annual Temperature Bins



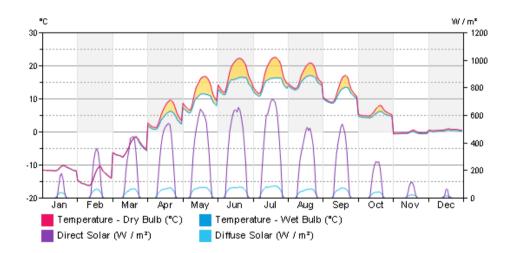


HolidayInn BEM II Analysis (1) Annual Temperature Bins



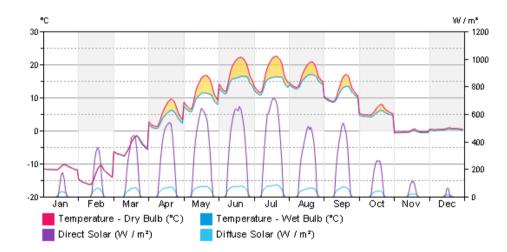


HolidayInn BEM II Analysis Diurnal Weather Averages



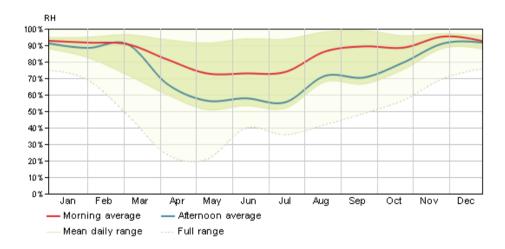


HolidayInn BEM II Analysis (1) Diurnal Weather Averages



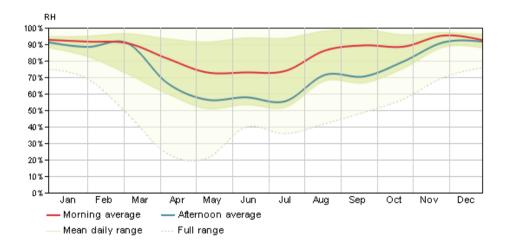


HolidayInn BEM II Analysis Humidity





HolidayInn BEM II Analysis (1) Humidity



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