

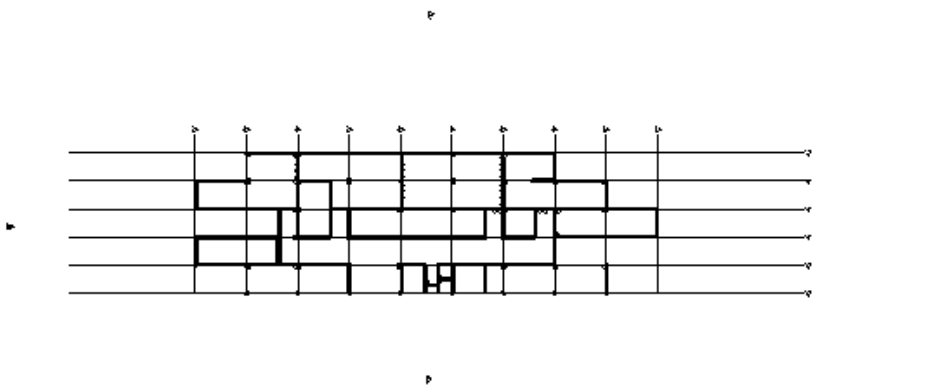


energy analysis final

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Analyzed at 12/26/2015 5:45:02 PM

### Energy Analysis Result



### Building Performance Factors

|                         |                         |
|-------------------------|-------------------------|
| Location:               | Antalya, Turkey         |
| Weather Station:        | 1246618                 |
| Outdoor Temperature:    | Max: 39°C/Min: 0°C      |
| Floor Area:             | 399 m <sup>2</sup>      |
| Exterior Wall Area:     | 234 m <sup>2</sup>      |
| Average Lighting Power: | 9.69 W / m <sup>2</sup> |
| People:                 | 16 people               |
| Exterior Window Ratio:  | 1.78                    |
| Electrical Cost:        | \$0.14 / kWh            |
| Fuel Cost:              | \$1.44 / Therm          |

### Energy Use Intensity

|                  |                   |
|------------------|-------------------|
| Electricity EUI: | 121 kWh / sm / yr |
| Fuel EUI:        | 321 MJ / sm / yr  |
| Total EUI:       | 755 MJ / sm / yr  |

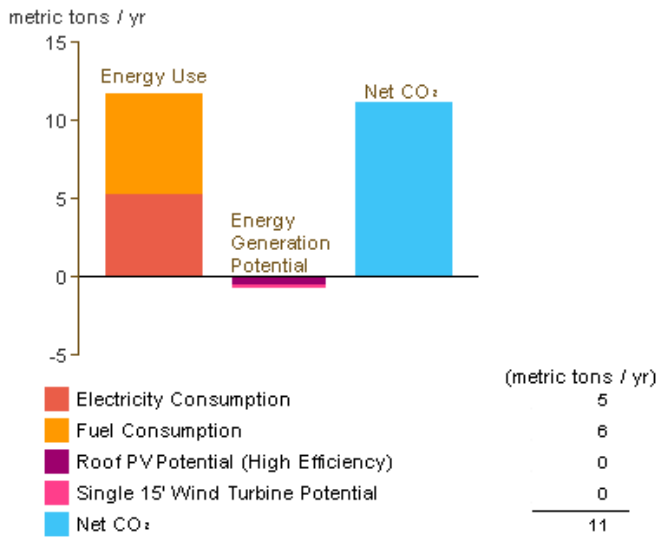
### Life Cycle Energy Use/Cost

|  |               |
|--|---------------|
| Life Cycle Electricity Use:                    | 1,443,383 kWh |
| Life Cycle Fuel Use:                           | 3,843,561 MJ  |
| Life Cycle Energy Cost:                        | \$114,964     |
| *30-year life and 6.1% discount rate for costs |               |

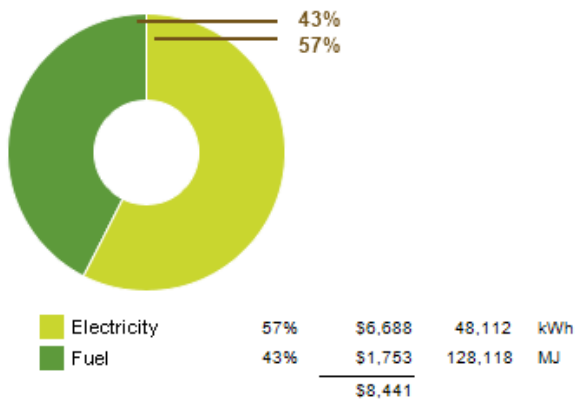
### Renewable Energy Potential

|  |                |
|--|----------------|
| Roof Mounted PV System (Low efficiency):   | 1,295 kWh / yr |
| Roof Mounted PV System (Medium efficiency):  | 2,590 kWh / yr |
| Roof Mounted PV System (High efficiency):  | 3,885 kWh / yr |
| Single 15' Wind Turbine Potential:   | 1,834 kWh / yr |
| *PV efficiencies are assumed to be 5%, 10% and 15% for low, medium and high efficiency systems |                |

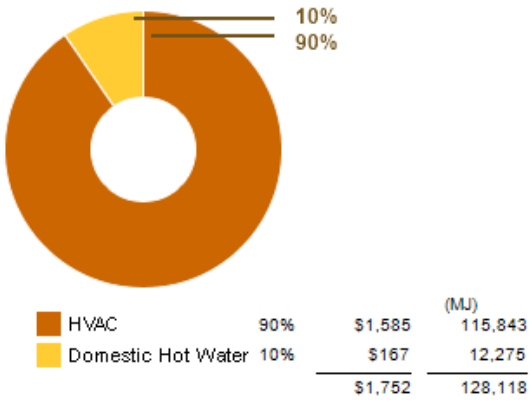
### Annual Carbon Emissions



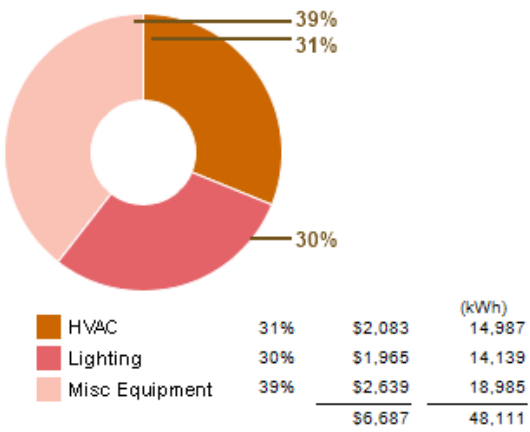
### Annual Energy Use/Cost



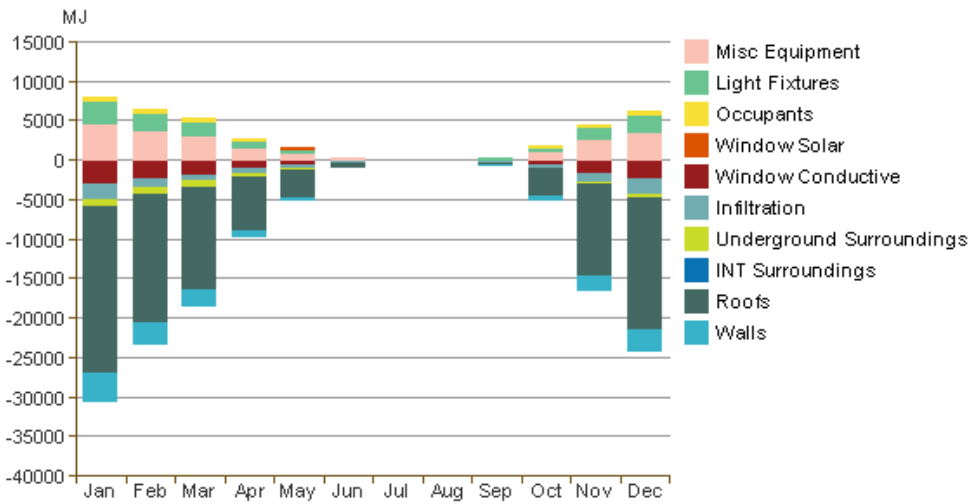
### Energy Use: Fuel



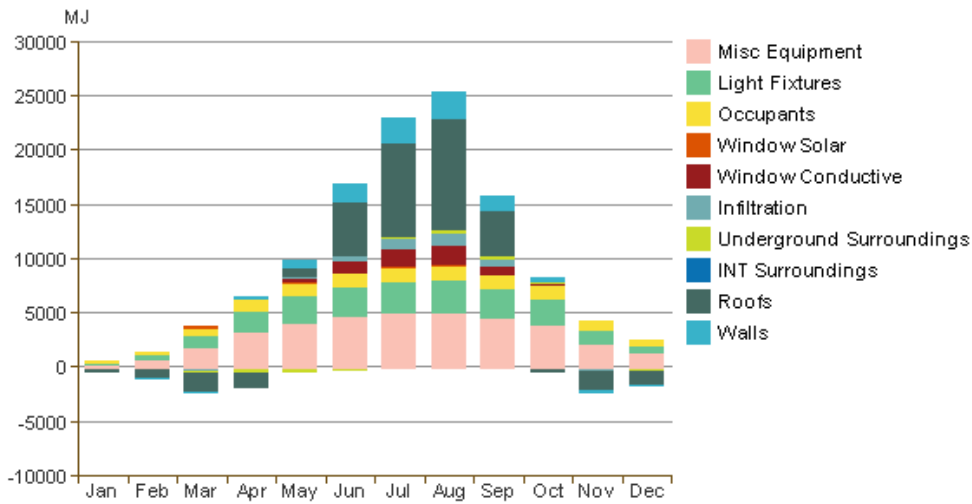
Energy Use: Electricity



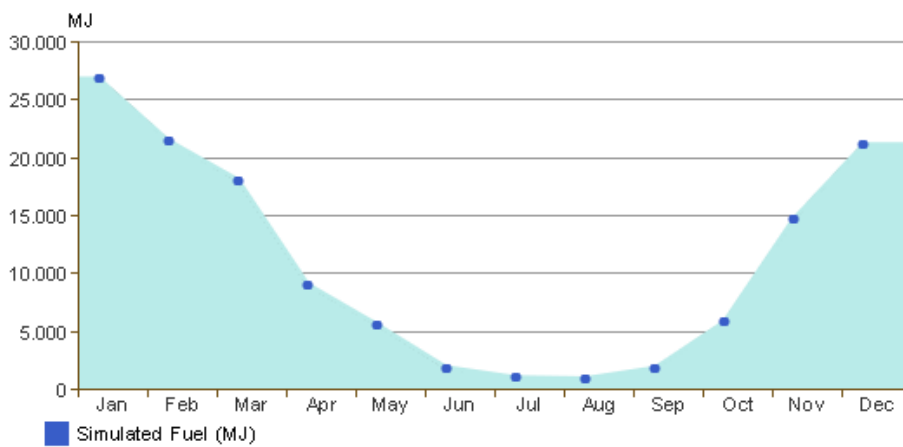
Monthly Heating Load



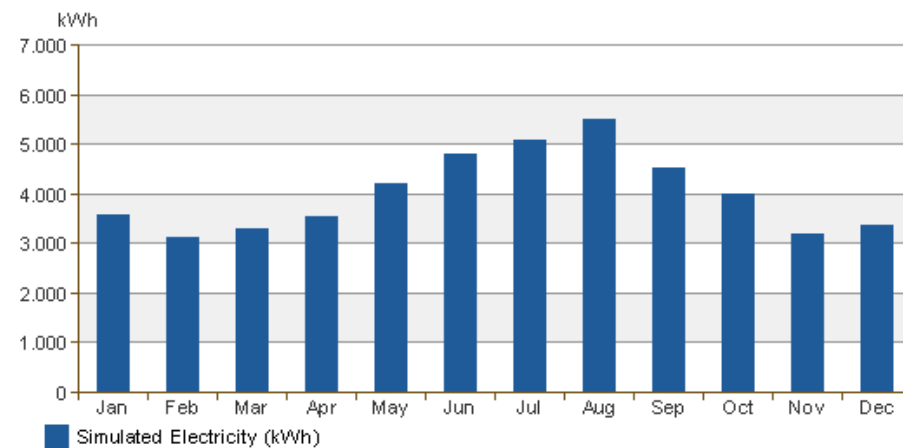
Monthly Cooling Load



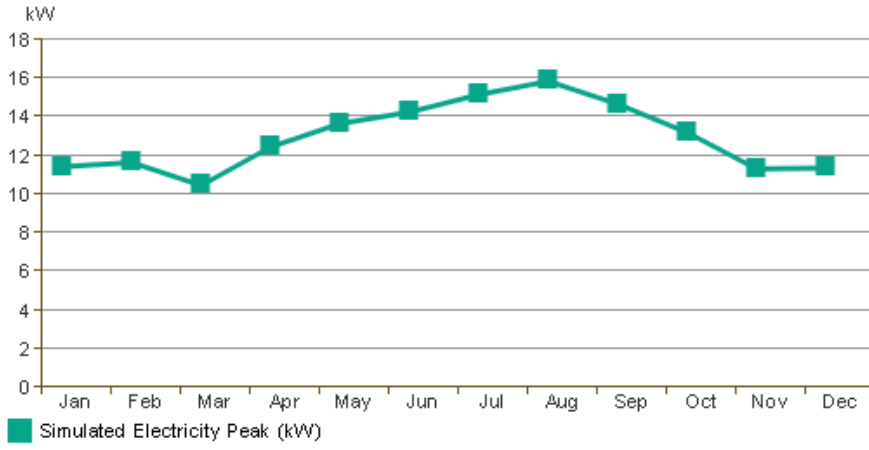
### Monthly Fuel Consumption



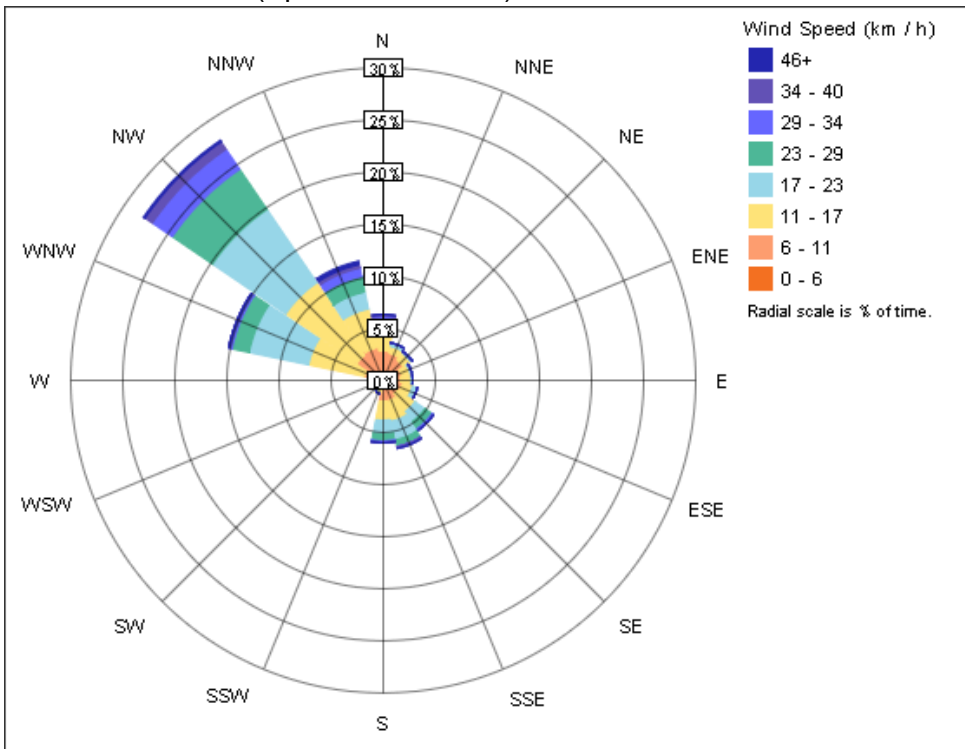
### Monthly Electricity Consumption



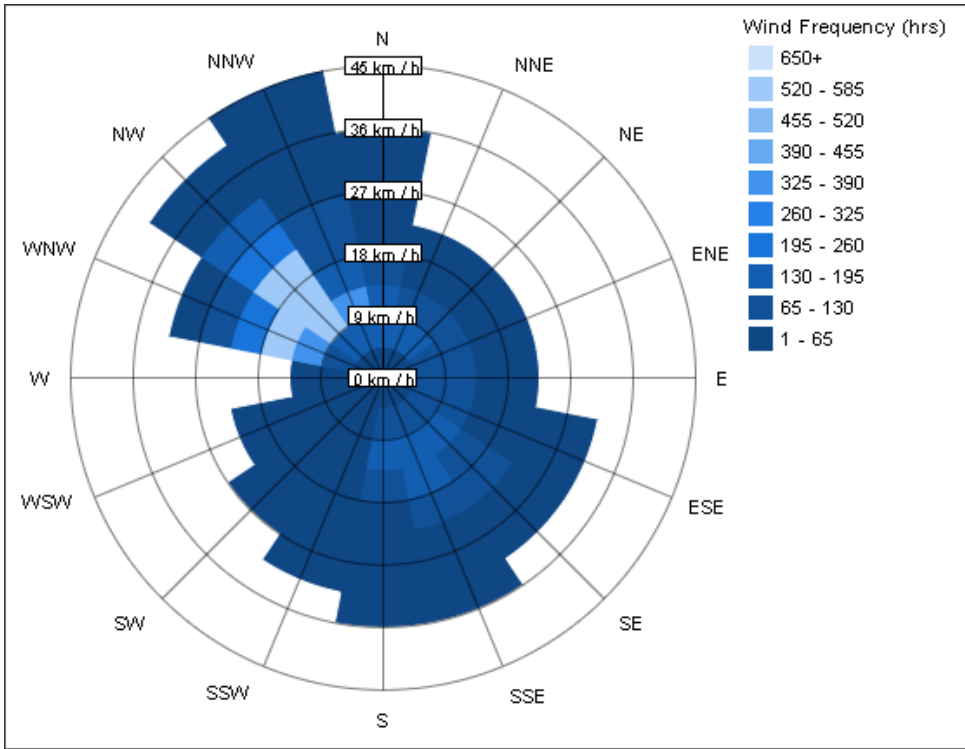
### Monthly Peak Demand



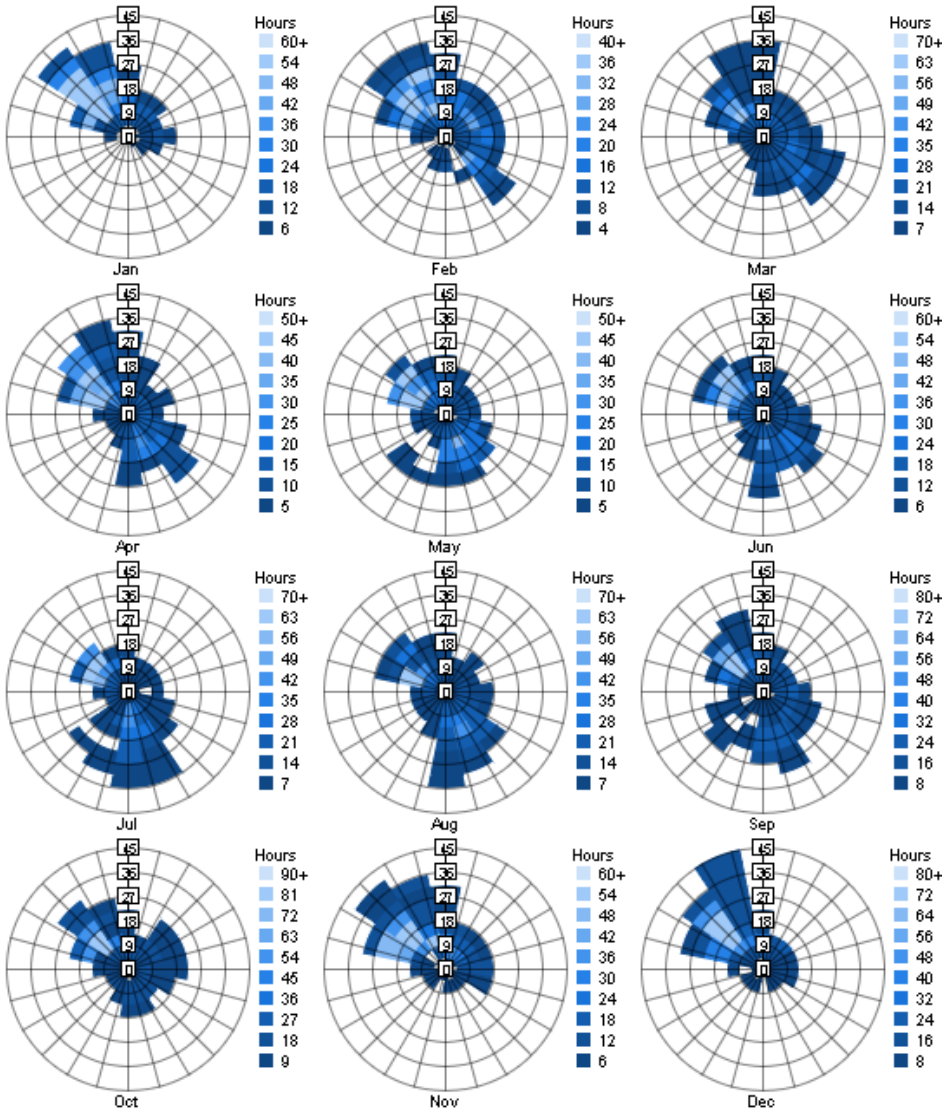
Annual Wind Rose (Speed Distribution)



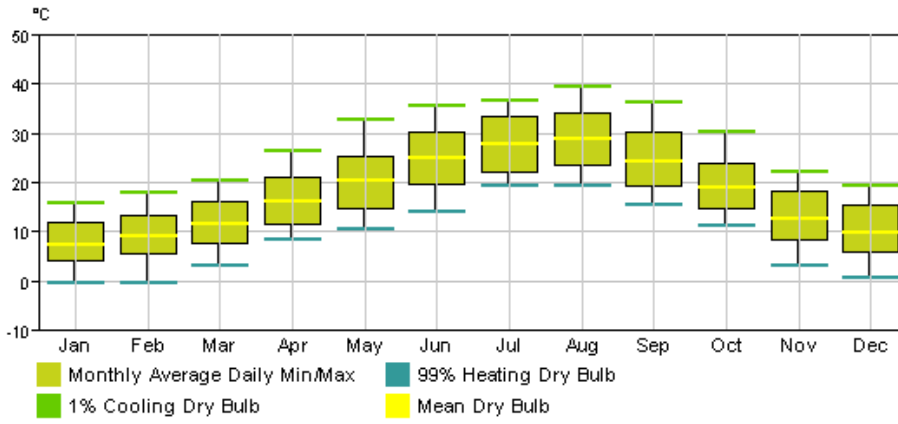
Annual Wind Rose (Frequency Distribution)



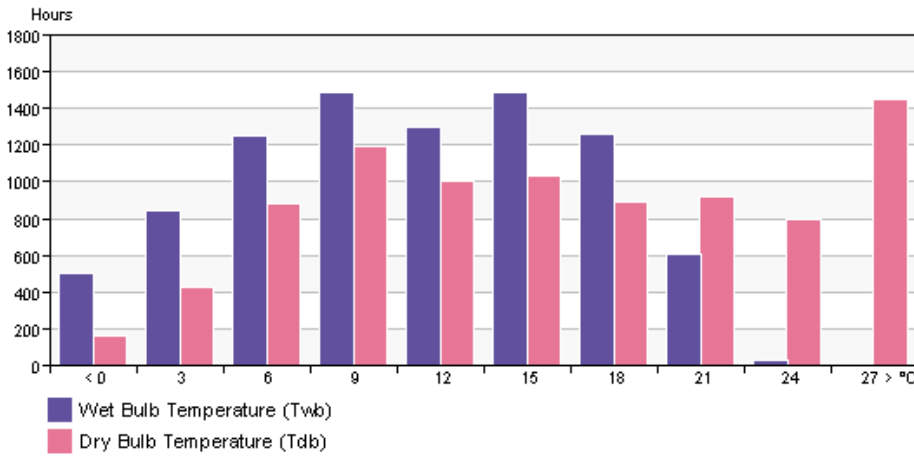
Monthly Wind Roses



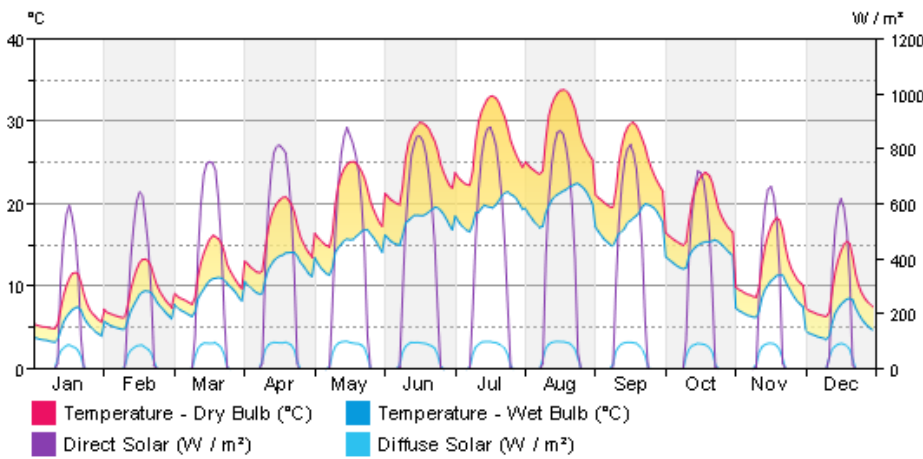
### Monthly Design Data



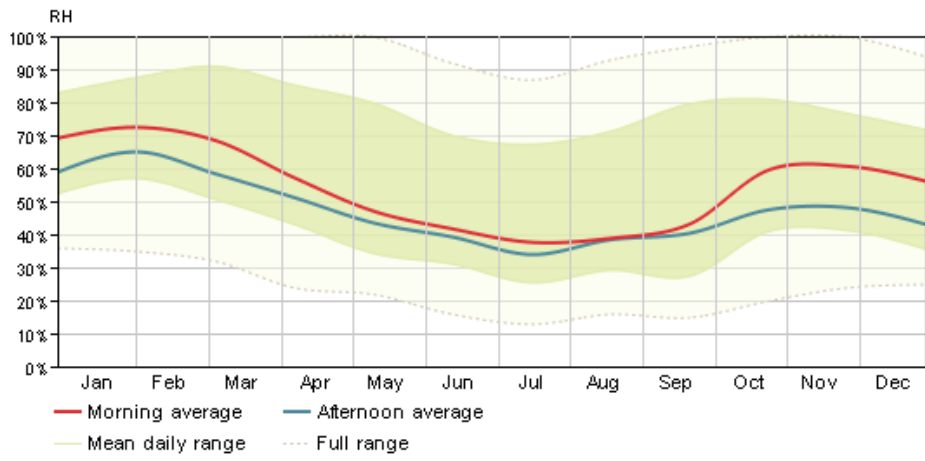
### Annual Temperature Bins



### Diurnal Weather Averages



### Humidity



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## Energy Analysis Data