



The solar solution for a  
Sustainable Development

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## Consultancy Services on Sustainable Design & Renewable Energy Systems

### Sustainable Design

Nowadays, building designers are taking more responsibilities when planning the construction of new buildings by considering the ecological and environmental impact. Sustainable design should include clean energy systems, energy efficiency measures, water and waste treatment and preservation of land, amongst others.

### Green Buildings

Constructing GREEN buildings has several advantages:

- Improvement of the quality of the air.
- Production of clean and efficient energy.
- Economic savings from energy tariffs.
- Reduction of the greenhouse gases emissions.



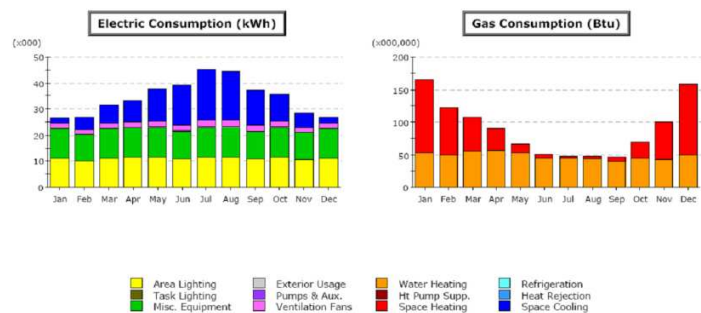
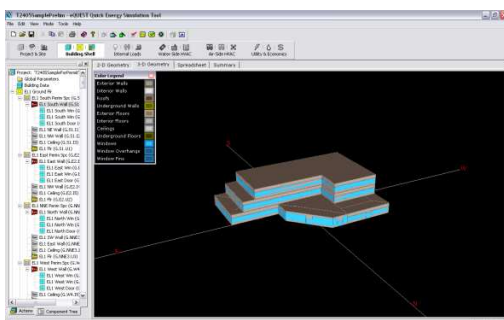
## Studies for Sustainable Design

Designing buildings in a sustainable way is not an easy task, since there are many factors that are involved. The best way to do it is through calculations in the early design stage. These calculations require advanced software for modeling complex equations that, when solved simultaneously, can give a description of the energetic behavior of the building.

## Benefits

The benefits of carrying out a simulation study of a building:

- ✓ Determines the annual energy consumption.
- ✓ Determines the parameters that influence most the energetic behavior of the building.
- ✓ Can reduce the energy consumption by implementing energy efficiency methods.
- ✓ Gives an impression of the internal comfort.



## Innovative Concepts

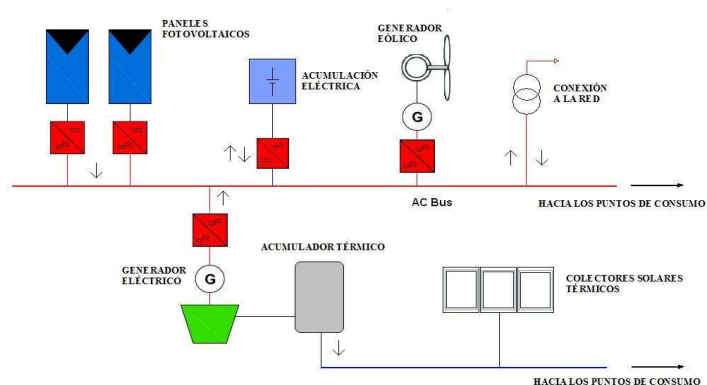
Our expertise in this field gives us the advantage to implement innovative techniques that can significantly increase the energetic performance of the building and reduce the energy consumption. Some of the measures that can be implemented:

- *Daylighting control*
- *Solar chimneys*
- *Energy Recovery Ventilator*
- *Radiant Floor / Ceiling*
- *Heat Pumps*
- *Hybrid Ventilation*
- *Evaporative Cooling*
- *Absorption Cooling*
- *Solar Collector*
- *Photovoltaic Systems*
- *Green Roofs*

## Renewable Energy Systems

Renewable Energy covers a wide range of technologies that can provide clean energy to a house, building, village or an entire city.

At Ilumina Sol, we are specialized and promoters of Hybrid Systems, that is, systems that combine at least two sources of energy, as shown in the diagram below:



The advantages of a hybrid system are:

- Increases overall efficiency
- Higher reliability
- Maximizes the use of renewable energy sources, lowering emissions
- Source located at or near the point of use (no distribution losses)
- Reduce overall costs, which is the key to market acceptance

### **WHAT SERVICES CAN WE DELIVER?**

- Development of the energy concept
- Global design of the overall energy system, control strategies and potential energy / CO2 savings
- Services related to tendering / contracting of local parties (defining terms of reference, selecting from offers, negotiation)
- Setting up, running and monitoring of systems

### **CONTACT**

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“The future is in your hands”