

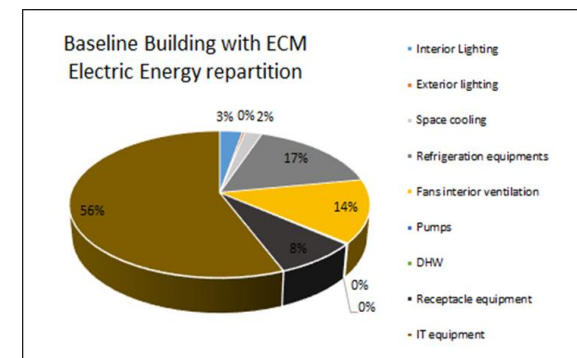
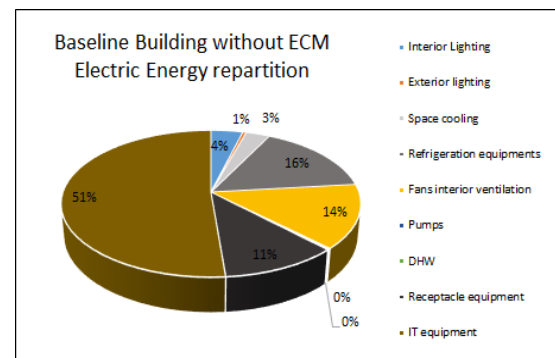
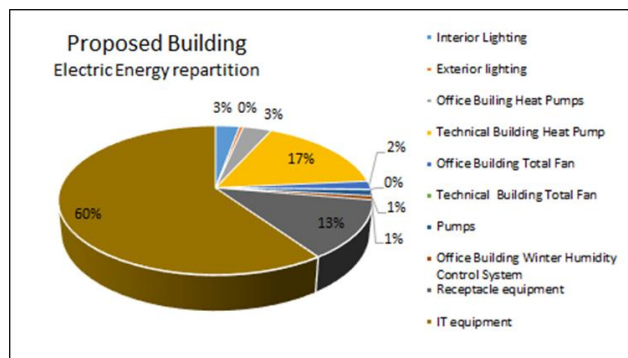
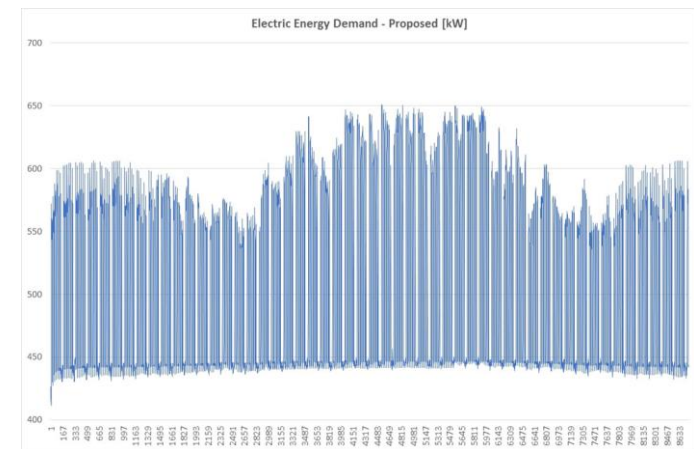
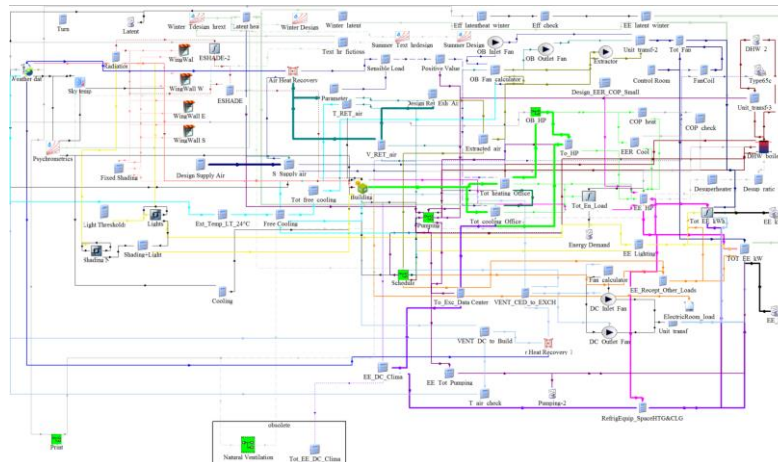


CasTer Srl

Dynamic Simulations for Energy Analysis: Our Experience

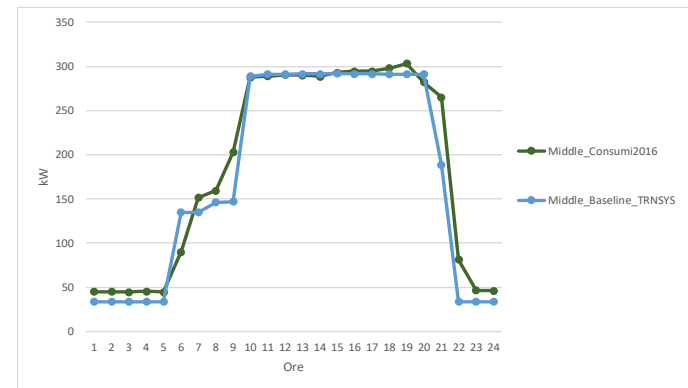
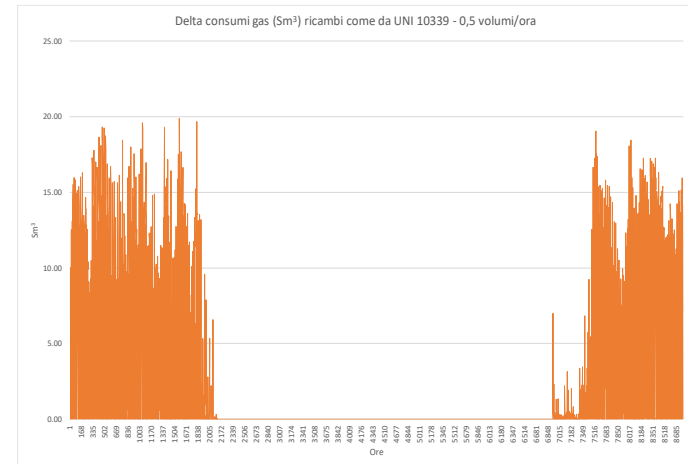
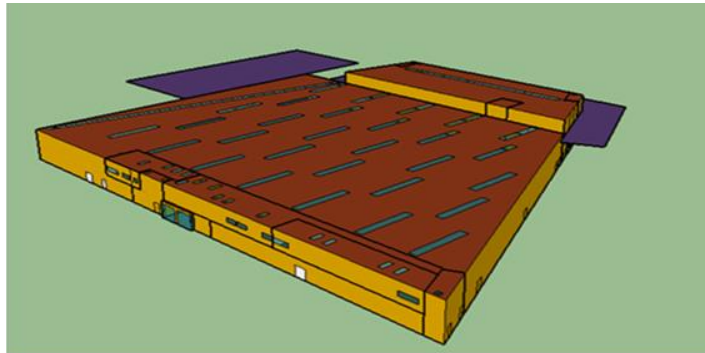
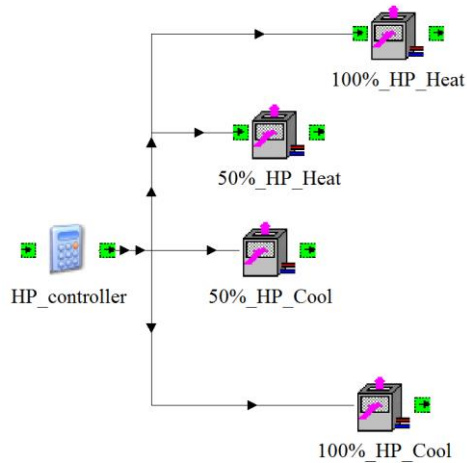
Our experience

- Energy modelling for a Data Center and Office Building in Bologna for LEED Certification (LEED protocol v4 BD+C: NC) by means of the software package




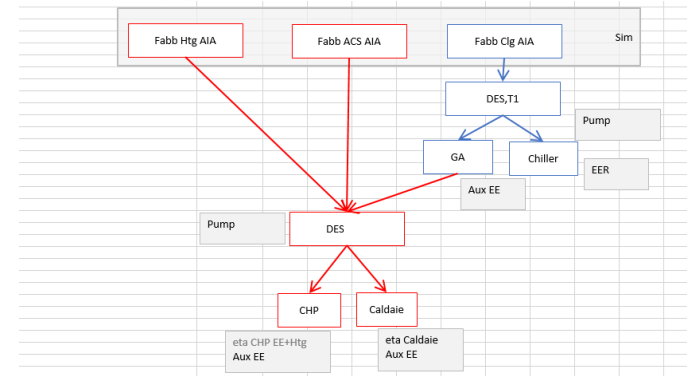
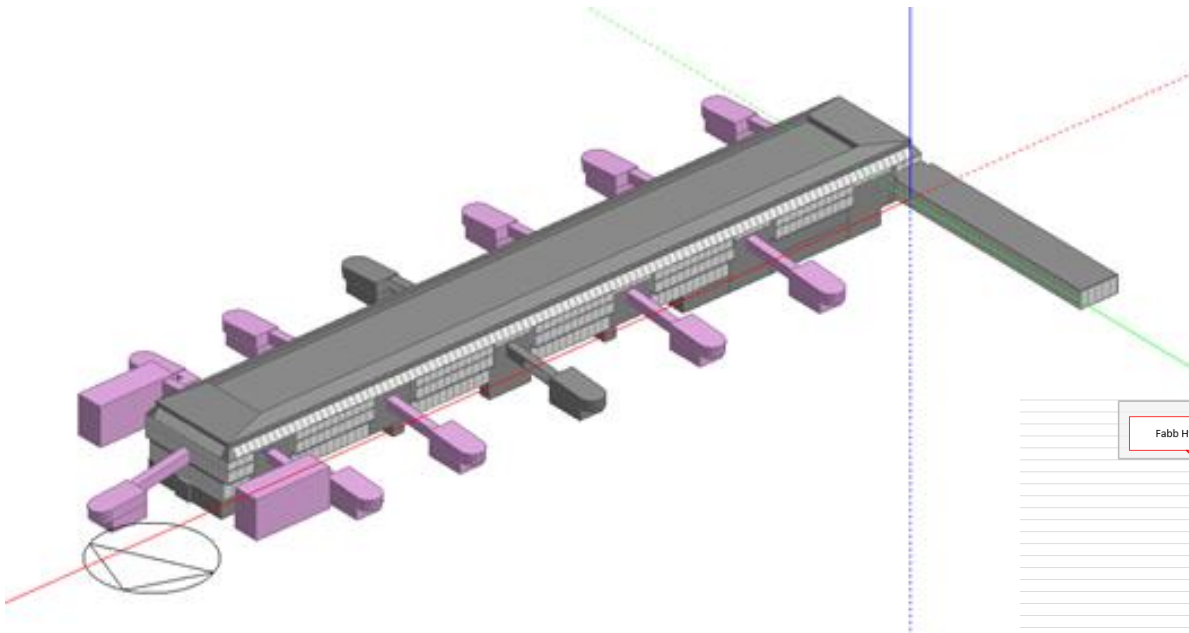
Our experience

- Energy modelling for a large retail store by means of the software package



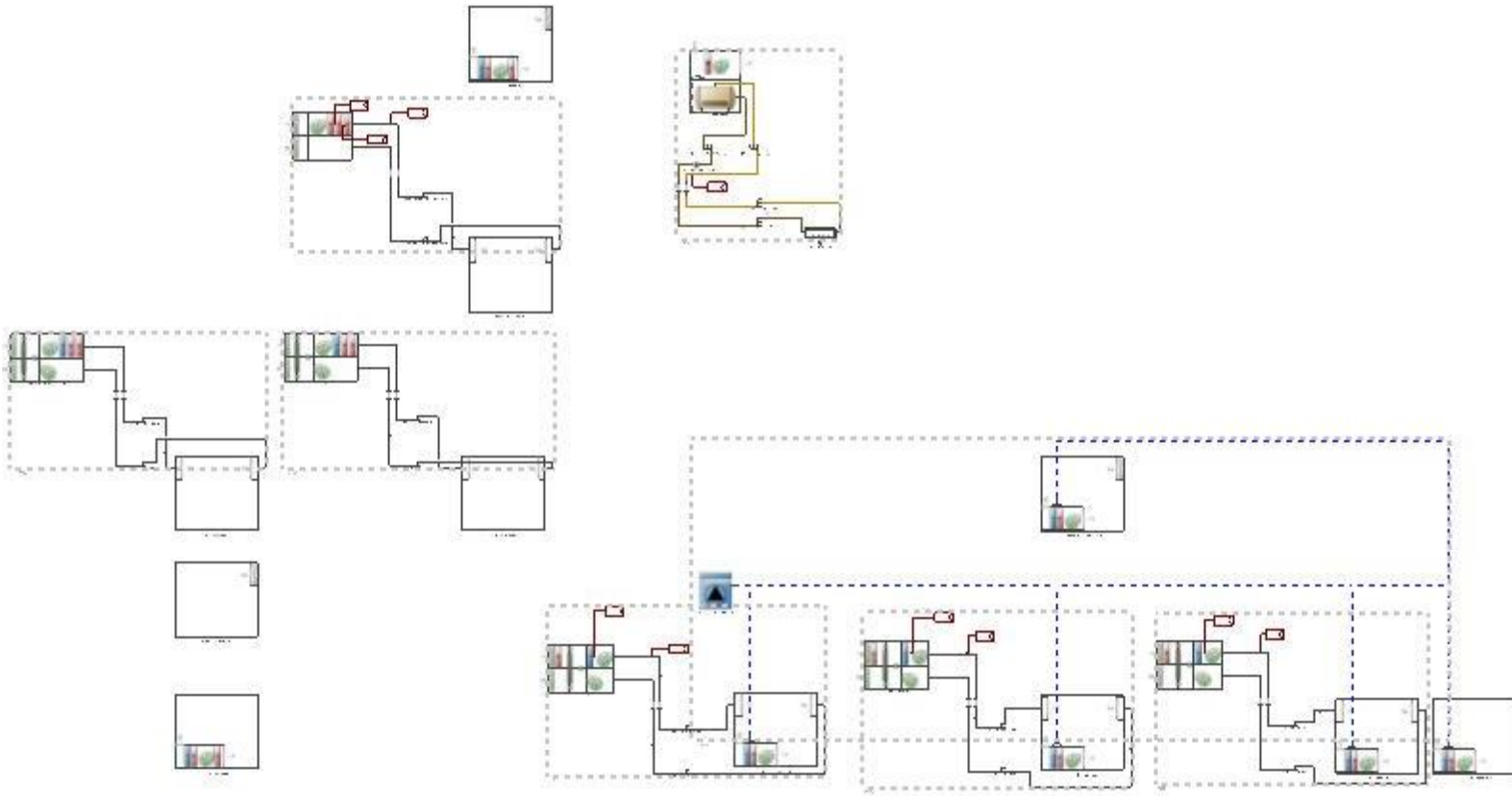
Our experience

- Energy modelling for an Airport Terminal LEED certification (LEED protocol NC Italy 2009) by means of the software package  DesignBuilder SOFTWARE



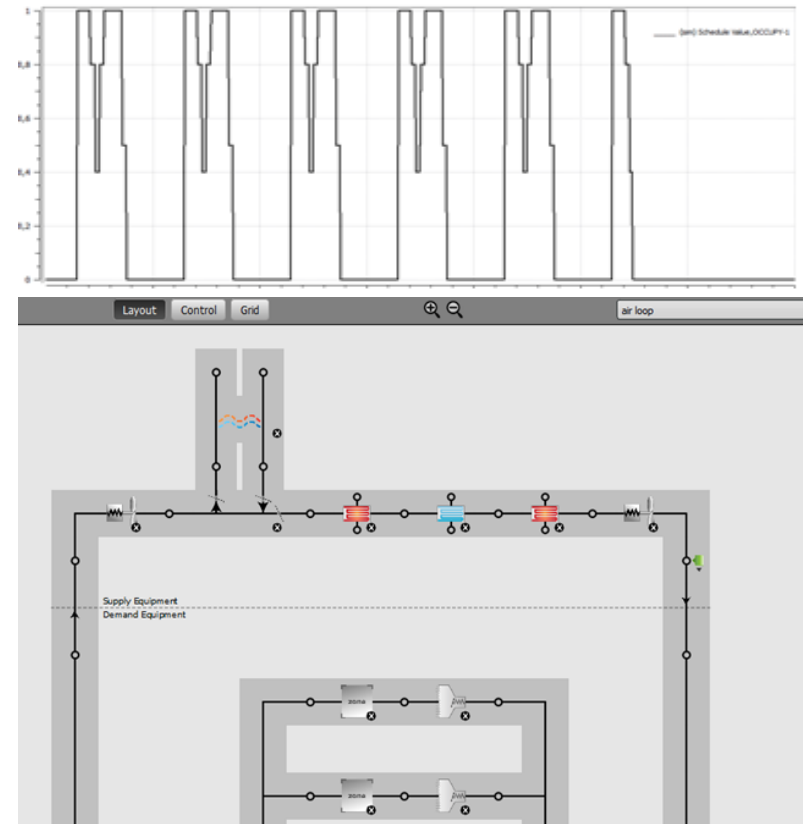
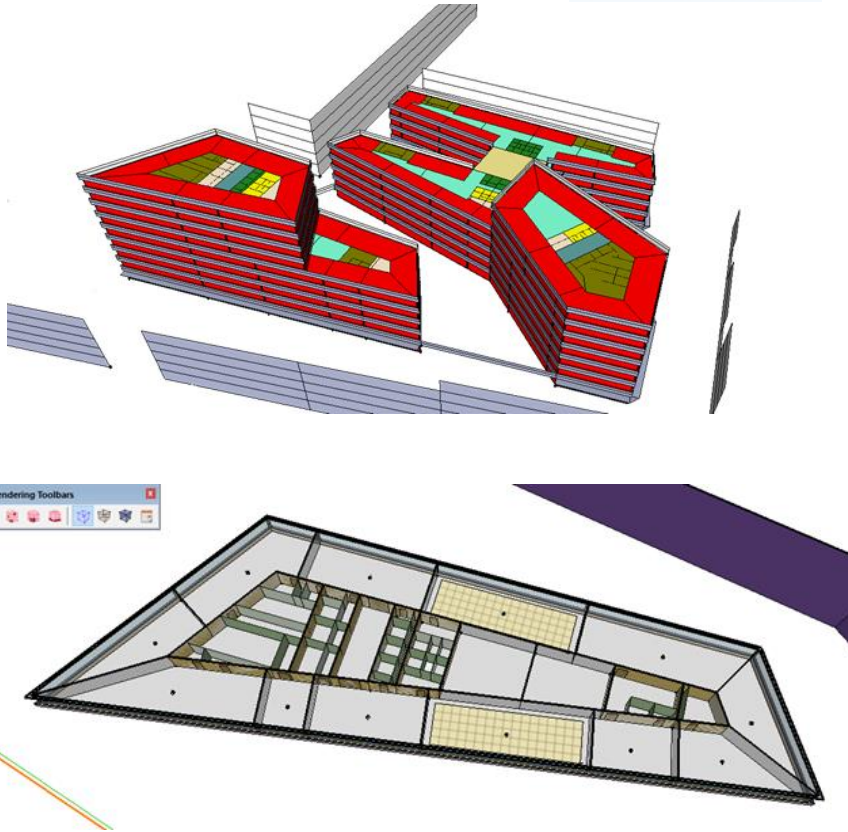
Our experience

- Energy modelling for a large retail store LEED Certification (LEED protocol Core&Shell 2009) by means of the software package  DesignBuilder SOFTWARE



Our experience

- Energy modelling as a tool for energy review of building complex in Milan, plant tuning optimization, cost analysis of energy saving opportunities by means of the software package



LEED Credits



Water efficiency:

- Cooling Tower Water Use



Energy and Atmosphere Credits:

- Minimum Energy Performance
- Optimized Energy Performance
- Renewable Energy Production



Indoor Environmental Quality:

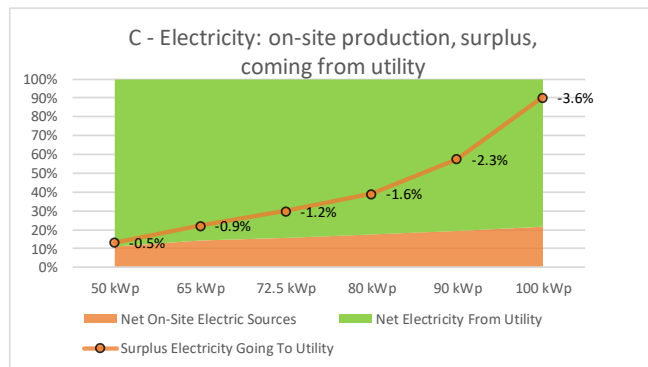
- Thermal Comfort
- Daylight
- Quality Views



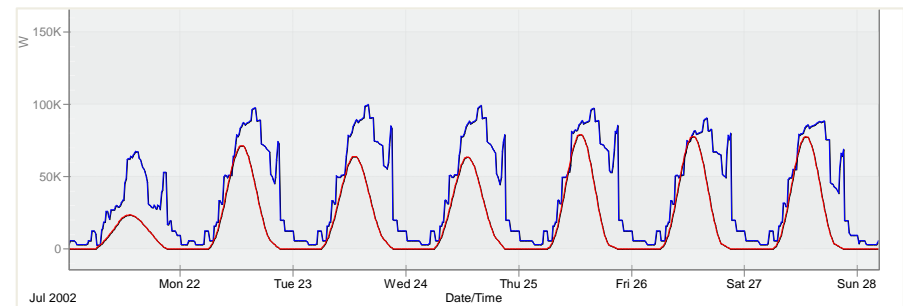
Energy modeling as a decision making tool

Dynamic simulations are a powerful design tool in an **integrated design process** because it enables a **more informed** and **cost-effective** selection of efficiency strategies.

Energy modeling should start as soon as possible and it should be updated throughout the design process. In this way energy modeling becomes a decision making tool, giving feedback as part of larger analysis of building systems and components.



100 kWp



Example: optimization PV plant size in order to maximize the self consumed energy coming from PV on-site production



Fur further details and information

Contact us!