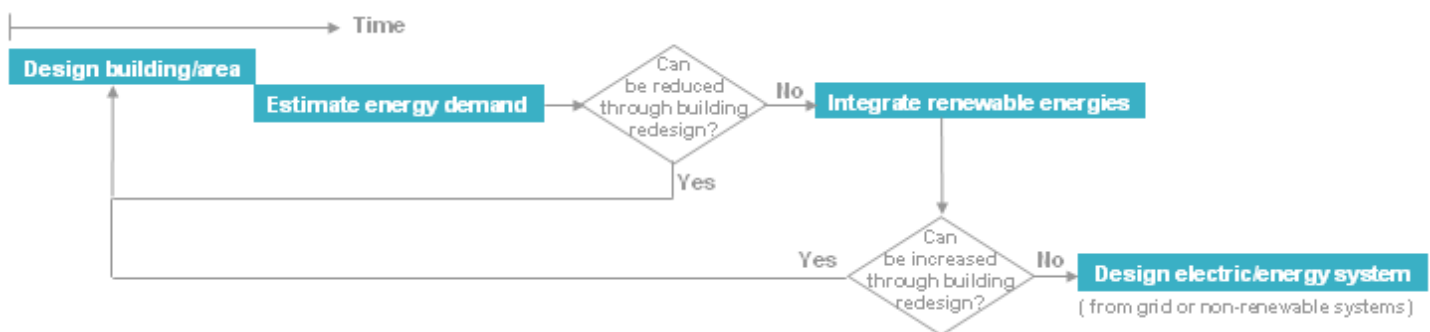


FINAL ASSIGNMENT CASE

The students must develop a practical case making use of all the knowledge acquired during the Energy Seminar, including: energy requirements estimation, energy savings, renewable energies integration and energy modelling.

The following issues must be covered:

1. Assess and estimate the energy required for the base case building/area
2. HVAC requirements savings and estimation
 - a. Model base case
 - i. Same useful surface
 - ii. Cubic design
 - iii. East oriented
 - iv. Materials by default
 - b. Add improvement to the building design
 - c. Model improved building → quantify savings
3. Quantify required energy (HVAC – including savings already introduced -, appliances, hot water, etc)
4. Introduce and integrate renewable energies into the building/area → quantify self-sufficiency



Two deliverables must be presented:

- Document (Word or Acrobat compatible format) describing the project and the issues covered into the seminar. Before the 10th of March.
- A presentation (Power Point or Acrobat compatible format), 30 min duration. To be sent before 10th of March and presented 10th of March from 16h to 20h.

These deliverables will account for the 75% of your final grades.