PhD project: *Energy analysis in port areas*

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**Summary:** Analysis of the energy use in port areas, with regard to possible use of renewable energies, energy supply systems, improved energy efficiency and reduction in energy costs.

Energy is a key pillar to develop port activities, from both the supply and the consumption points of view. Although the energy management is important, it is increasingly necessary to integrate it with the port logistic system. Moreover the use of information-communication technologies (ICTs) will be key to monitor and optimize the port operations and energy consumption.

In this way, the “Smart Port” develops:

- An efficient and competitive port, which optimizes its infrastructures through the application of information-communication technologies (ICTs) and software automation.
- A port that manages its logistics chain intelligently.
- An efficient port from the energy point of view, also implementing renewable energy systems.
- A port that respects the environment, the city where it is integrated and its socioeconomic context.