

HosPilot

Intelligent Energy Efficiency Control in Hospitals

What?

HosPilot will install, tailor and fine-tune an ICT based system that will lead to more efficient energy use without adversely affecting (and even improving on) the comfort of the end-users in hospitals: patients, medical staff and visitors. *HosPilot* will address two main areas: Lighting and HVAC (Heating, Ventilation and Air Conditioning), which account for nearly 80% of all energy use in hospitals.

How?

HosPilot will achieve this by:

- Assessing the hospital's energy-saving potential. The following information will be taken into account:
 - Climate (seasons, temperature, wind, etc.)
 - Influence of daylight
 - Building envelope (construction materials, insulation, etc.)
 - Hospital room conditions (occupancy, usage, light, air, humidity, etc.)
- Providing hospitals with an ICT-based scheme to reduce energy consumption. Computer simulations will be used to generate this scheme.
- Implementing the scheme.
- Fine-tuning of the scheme for maximum energy saving through regular monitoring.

Who and where?

Three pilot projects will be executed in hospitals during normal operations: UMCG Hospital, Groningen (NL), San Pedro Hospital, Logrono (ES), EPSHP Hospital, Seinajoki (FI).

Why?

Until recently, the focus of energy reduction has been primarily on schools and offices. Hospitals, however, also use large amounts of energy. Therefore, the project will specifically address the hospital domain. The *HosPilot* project will support decision makers with an ICT-based service that will drastically reduce the energy consumption of newly built hospitals and in existing ones needing renovation, while increasing well being and comfort.

AT A GLANCE

Consortium:

- **The Netherlands:** Philips Lighting, Universitair Medisch Centrum Groningen
- **Spain:** Philips Iberica., Acciona Infraestructuras, Fundacion Labein, Servicio Riojano de Salud
- **Finland:** VTT - Valtion teknillinen tutkimuskeskus, Granlund, EPSHP – Hospital District of South Ostrobothnia
- **France:** CSTB - Centre Scientifique et Technique du Batiment
- **Monaco:** Eneleo

Duration:

3 years from March 2009 until February 2012

Total Cost:

€4.340.000 (EC contribution €2.170.000)

Website:

<http://www.hospilot.eu/>

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