



Area of action and objectives

LEIRIA Santo André Hospital. I Water I Energy I Indoor air quality I

Objectives

Knowing the amount of water and energy consumed, the efficiency and potential for improvement of consumption.

Analysing the air quality of the building in terms of healthiness and comfort and compare it with the recommended reference parameters.

BADAJOZ Perpetuo Socorro Hospital. I Envelope I

Objectives

Studying the state of the building envelope, the efficiency of the insulation and the potential for improvement of the envelope.

BAYONA Ramsay Sante. Belharra Clinic.

Objectives

Evaluating the state of the self-consumption installations, the amount of energy generated and the efficiency of generation.

Measuring the amount of energy consumed and the efficiency and improvement potentials of energy consumption.

SERVER

MONITORING



Architecture Monitoring

The ultimate goal of monitoring is to supervise and evaluate in real time the state of the building in terms of its eficiencia in each of the five established pillars, as well as to warn of any changes that may affect the performance or wellbeing of the occupants.

The Hospital Sudoe 4.0 platform and the database from which it is fed, will be hosted on a dedicated hospital computer, monitoring requires communication between the measure-

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SUDOE 4.0 PLATFORM

OSPITAL NETWORK

ment equipment and this PC, communication will be carried out through the hospital network.

INSTALLER'S NETWORK

DEVELOPMENT TEAM

Elements and parameters to monitor

The parameters have been grouped according to the 5 pillars and in turn, each pillar will be broken down into sections according to the type of parameters to be monitored, these parameters have been characterised through the identification of the following fields:

5 PILLARS:

Energy:

General consumption and main consuming equipment.

Water:

Identify irregularities and low efficiencies in consumption.

Envelope:

Thermal transmittance of walls, windows and thermal bridges.

Self-generation

Photovoltaic installation and other renewable energy sources.

Air quality:

Areas requiring specific air quality, high occupancy areas and air conditioning installations.

DEFINED PARAMETERS

- Units.
- Magnitudes.
- Measuring equipment.
- Measuring point.
- Specifications of the measurement.

Case studies and real data capture

DATA BASE

Perpetuo Socorro Hospital (Junta de Extremadura)

REMOTE ACCESS

- Ramsay Sante Belharra Clinic (NOBATEK)
- Santo Ándré Hospital (IST & ADENE)

