

# Green Healthcare

GOOD PRACTICES OF GREEN HEALTHCARE AROUND THE EU



## Green Energy Use

### INFANTA SOFIA PUBLIC HOSPITAL (SPAIN) REDUCES ITS CARBON FOOTPRINT

The **Infanta Sofia public hospital** in Madrid decided under a concession arrangement to implement several measures to decrease its CO<sub>2</sub> emissions by almost 50% within five years and reduce by 20% its water consumption.

The Infanta Sofia Public Hospital is a public health centre built by the Community of Madrid. It provides specialised quality care to more than 312,000 residents in the surrounding area and counts with 90,000 m<sup>2</sup> and 254 beds.

The Hospital applied energy-efficient systems to reduce its carbon footprint and water consumption. The initiatives included the installation of monitoring mechanisms to analyse the building's energy demand in real-time, revealing changes in electricity and gas consumption which facilitated the corrections of the deviations.

Conventional lights were replaced by LEDs, and temperature sensors were added to the air conditioning system.

The result was a 48% reduction in natural gas consumption and a 15% decrease in electricity use. Furthermore, 100% of the electricity consumed by the hospital is now from renewable sources. The hospital reached its initial goal of reducing CO2 emissions by half in five years, despite the increase in patients. The utilisation of water supplies was also reduced, thanks to the implementation of several water-saving measures (changes in laundry, taps, cisterns) and awareness campaigns for staff and patients.

More information at the following [Link](#).

