



University Hospital S. Orsola-Malpighi

Project Profile

The project entity Progetto ISOM signed a concession agreement with the University Hospital S. Orsola-Malpighi. The concessionaire, the university hospital, is one of the biggest Italian hospitals, with approximately 5,300 employees and 1,700 beds.

Initiatives are planned in order to improve the energy efficiency of the entire fluids production and distribution system and to reduce energy consumption. Such measures include the adoption of energy-efficient equipment such as centrifugal chillers and absorbers, the reconstruction of the heat-distribution networks, the renovation of heat-exchange substations and the inclusion of a tri-generation plant for the combined production of cooling, heat and power (CCHP), based on the energy consumption of the hospital facility, which is fuelled by methane gas.

The new technological centre for highly efficient energy production and distribution is expected to achieve a reduction in CO₂e emissions of approx. 23 % compared to baseline.

The major construction works on the different sites of the project are complete. The project has been operational and is expected to achieve final commissioning in H2-2016.

Key figures	
Country	Italy
Sector	Energy efficiency – upgrade of entire energy system
Type of investment	Senior funds
Total project size (€m)	41.0
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Financial close	08 May 2013
Maturity	20 years
Estimated tCO ₂ e emission savings (p. a.)	8,574

Project Highlights

This upgrade of the entire energy system of the university hospital has been the biggest energy efficiency upgrade in Italy completed as part of a PPP.

For the local public healthcare it is a significant step forward, as the university hospital is one of the biggest hospitals, making it a model for other hospitals in Italy. This is a major project which demonstrates the positive impact of energy efficiency measures in public buildings that have to be run 24/7, showing how energy efficiency can improve the underlying conditions for providing healthcare services to citizens of the region Emilia-Romagna.