

University of Applied Sciences Munich



Project Profile

The University of Applied Sciences Munich and the energy service company (ESCO) Johnson Controls entered into an energy performance contract (EPC) for both of the buildings on the university's campus in Munich-Pasing, with a total EPC volume of €1.1 m. The university was founded in 1971 and is the largest university of applied sciences in Bavaria, with approximately 17,500 students, 475 professors, 750 lecturers and 745 non-academic staff.

The ESCO and the university agreed to energy efficiency measures comprising the optimisation of the heating, lighting, metering, building management and pumping, as well as the installation of a 49.5 kW combined heat and power (CHP) plant.

The project was implemented in 2013, and in 2015 it achieved an annual reduction of 47 tCO₂e emissions and 1,986 MWh of primary energy savings.

The cumulative savings of the project to the end of 2015 are 178 t of CO₂e emissions and 5,697 MWh of primary energy savings.

The ESCO has guaranteed the university these energy savings per annum and is completing maintenance and building operation services for a contract period.

Key figures	
Country	Germany
Sector	Energy efficiency – building retrofit
Type of investment	Forfaiting loan
Total project size (€m)	1.1
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Financial close	15 November 2012
Maturity	10 years
Observed tCO ₂ e emission savings (p. a.)	47

Project Highlights

This constitutes an innovative forfaiting structure for financing energy efficiency measures in a public building, with a focus on low-carbon solutions, which will improve the learning environment for students as well as staff. Although it is a small project, it demonstrates the concept of combating climate change through a smarter use of energy which also benefits the public budget. It even includes a small component of decentralised energy production for the university's own use.

This project serves as a model for further energy efficiency investments in educational facilities such as universities, schools and kindergartens.