



From left to right: Josef Seuberth and Adalbert Meiszburger of Sozialstiftung Bamberg, Uwe Thomas and Klaus Wagner of Stadtwerke Bamberg, Armin Müller of “Energie & Management” magazine, Sascha Flormann and Thomas Knorr of SPIE Energy Solutions.

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Press Release

SPIE, Sozialstiftung Bamberg and Stadtwerke Bamberg awarded “CHP Plant of the Year 2018”

- The CHP (combined heat and power) plant at the Klinikum am Bruderwald hospital in Bamberg has been named “CHP Plant of the Year 2018”
- The title was awarded by the specialist publisher “Energie & Management” in collaboration with the German CHP Association (Bundesverband Kraft-Wärme-Kopplung)
- The award was bestowed upon SPIE as planner and installer, Sozialstiftung Bamberg as operator and Stadtwerke Bamberg as contractor

Ratingen, April 10 2019 – *The combined heat and power plant of the Klinikum am Bruderwald hospital in Bamberg was selected as the “CHP Plant of the Year” above all because it can serve as a role model for other plants. Project partners SPIE as planner and installer, Stadtwerke Bamberg as contractor and Sozialstiftung Bamberg as operator received the award from the specialist publisher “Energie & Management” and the German CHP Association (Bundesverband Kraft-Wärme-Kopplung).*

A role model for other plants

All CHP plants featured in “Energie & Management” magazine between January and November last year were nominated for “CHP Plant of the Year 2018”. According to “Energie & Management”, it was decided to bestow the award on the Klinikum am Bruderwald hospital because the energy supply concept for expanding and redesigning an existing CHP plant could serve as a model for other plants. The hospital’s concept also offers exemplary solutions for new CHP systems. The “excellent cooperation” between the operator, contractor and planner regarding the plant concept was also highlighted as a deciding factor.

More than 50 percent of the electricity and heat demand is self-generated

The CHP plant, which supplies the hospital with electricity as well as heat, cooling and steam, was planned and implemented by SPIE and Stadtwerke Bamberg in the form of an Energy Savings Performance Contract together with Sozialstiftung Bamberg as the hospital’s operator. *“As part of our eleven-year energy efficiency partnership, we have already optimised the generation of electricity, heat, air conditioning and filtered ambient air for Sozialstiftung Bamberg in 2006/2007. However, we are not prepared to merely settle for the savings we made so far, but are constantly looking for further opportunities for optimisation,”* says Thomas Knorr, Project Manager at SPIE. The conventional CHP plant was replaced by a more powerful one in 2016. In 2018, for example, approximately 50 percent of the hospital’s electricity and 54 percent of its heat demand could be covered by the new CHP plant.

A significant increase in overall efficiency

In order to better utilise the plant all year round, an absorption chiller was added. In the summer, it uses a large part of the CHP plant’s thermal output for cooling processes. A technical feature that further increases the CHP plant’s efficiency is the use of radiant heat from the engine and the heat that has to be cooled from the boiler room. This is then fed into the heating circuit via recirculating air-cooling units and a heat pump. *“The extension of the plant and the use of radiant heat from the engine have led to a significant increase in overall efficiency,”* says Thomas Knorr. The primary energy requirement was reduced by 26 percent compared to separate production of electricity and heat. Furthermore, CO₂ emissions can be reduced by 7,000 tonnes a year with the modernised system.

About SPIE Deutschland & Zentraleuropa

SPIE Deutschland & Zentraleuropa, a subsidiary of the SPIE group, the independent European leader in multi-technical services in the areas of energy and communications, is the leading multi-technical service provider for buildings, facilities and infrastructure in Germany, Austria, Poland, Czech Republic, Slovakia and Hungary. Its service range encompasses technical facility management, energy-efficiency solutions, technical services for the transmission and distribution of energy and for industrial clients as well as in the areas of electrical and security technology, HVAC technology and information and communications technology.

SPIE Deutschland & Zentraleuropa has about 15,000 employees in over 200 locations.

With more than 46,400 employees and a strong local presence, SPIE achieved in 2018 consolidated revenues of €6.7 billion and consolidated EBITA of €400 million.

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