

Gas Generator Sets

## ELECTRICAL POWER, HEAT AND COOLING FOR OSRAM PLANT IN BAVARIA

A MTU trigeneration gas genset from Rolls-Royce has been in service at the Osram plant in Eichstätt, Germany since January 2015.

 Who
 Lighting manufacturer Osram

 What
 Trigeneration gas genset

 Where
 Eichstätt, Germany

A MTU trigeneration gas genset from Rolls-Royce has been in service at the Osram plant in Eichstätt, Germany since January 2015. The system boasts low emissions and high efficiency and keeps the lighting manufacturer supplied with electrical power, heat and cooling. The trigeneration module assembled at the Rolls-Royce site in Augsburg is based on a 16V Series 4000 L64 engine and delivers 1999 kW of electrical power and around 1900 kW of heat.

## Heating in winter, cooling in summer

The new plant does more than the conventional cogeneration module for combined heat and power (CHP). In winter, it provides heat for the production halls and in summer cools the machine control and laser systems. This is thanks to an absorption refrigerator, which was installed to convert the process heat into cooling power. Generating cooling power in times of low heat demand enhances the capacity utilization of the plant.





The process heat delivered by the plant covers a large part of the factory's heating requirements. The gas genset is scheduled for service some 8,000 hours per year and boasts 44.3% electrical and 86% overall efficiency. All of the electrical power is fed into the on-site power network.

Osram is one of the world's leading lighting manufacturers, with headquarters in Munich, Germany. Its Eichstätt location plays a major role in halogen lamp production. Apart from halogen lamps for normal lighting in buildings, Eichstätt also supplies car lamps and xenon short-arc lamps for use in cinemas.

Images: Gammel Engineering

Rolls-Royce provides world-class power solutions and complete lifecycle support under our product and solution brand MTU. Through digitalization and electrification, we strive to develop drive and power generation solutions that are even cleaner and smarter and thus provide answers to the challenges posed by the rapidly growing societal demands for energy and mobility. We deliver and service comprehensive, powerful and reliable systems, based on both gas and diesel engines, as well as electrified hybrid systems. These clean and technologically advanced solutions serve our customers in the marine and infrastructure sectors worldwide.

