

To Make Sure Everything Works in Times of Crisis

Thanks to the engine replacement, the power supplied by the cogeneration plant of the medical technology manufacturer Dräger has become even more economical.



Both photos: Stadtwerke Lübeck GmbH

Dräger is a globally leading enterprise that delivers technology for life. Recently, the Lübeck-based company has come even more to the fore with its medical technology products and services. During the coronavirus pandemic, there was a great demand especially for the ventilators produced by Dräger. The company's headquarters on Moislinger Allee in the Hanseatic city of Lübeck manage the production facilities and sales companies around the globe. To make sure that

everything works smoothly at all times – not only in times of crisis – a dedicated MWM cogeneration power plant that was established back in 2007 supplies about 30 percent of the heat and power. A substantial amount of energy is needed for the workforce of 3,000 at the Moislinger Allee site.

“By replacing the engine of the Dräger cogeneration power plant, we want to achieve even more carbon savings and improve the profitability.”

When the cogeneration power plant was first set up in 2007, Dräger opted for reliable, efficient MWM engine technology in the form of a TCG 2020 V12. After 13 years of smooth operation, the core of the cogeneration power plant has been replaced with an MWM TCG 2020 V12 gas generator set with improved efficiency. “By replacing the engine of the Dräger cogeneration power plant, we want to achieve even more carbon savings and improve the profitability”, says Sören Sievertsen, Project Manager Stadtwerke Lübeck. In the past, the cogeneration power plant was operated directly by Dräger; now, this will be handled by Stadtwerke Lübeck under a contracting arrangement.

costs, as self-generated power is not subject to any additional levies”, explains Key Account Manager Björn Verwold.



The heat-controlled cogeneration power plant supplies heat energy and power for Dräger as well as heat energy for various service providers on the premises. All of the generated heat is used for heating the workplaces in the factory halls and offices, and almost all of the 1 MWh of power that is produced is used locally and is not fed into the local power grid. “In this way, we are able to cut Dräger's power

“By replacing the engine of the cogeneration power plant, we have taken systematic measures to ensure sustainable, efficient energy supply”, say (from left to right) Christian Hansen (Energy Manager, Dräger), Björn Verwold (Key Account Manager, Stadtwerke Lübeck), and Uwe Mai (Property Manager, Dräger).

Modern Engine for More Performance

The long-standing cooperation with MWM to ensure reliable power and heat supply will also continue with Stadtwerke Lübeck. The new MWM gas generator set – which boasts best-in-class electrical and thermal efficiency – went live in early June 2020 on the Moislinger Allee premises and continues to ensure hassle-free power and heat supply at Dräger.



Photo: Stadtwerke Lübeck GmbH

Stadtwerke Lübeck GmbH

Contact:	Sören Sievertsen
Address:	Geniner Straße 80, 23560 Lübeck
Country:	Germany
Number of employees:	520
Project Managers:	Sören Sievertsen/Stefan Peter
Account Manager:	Björn Verwold
Location:	Drägerwerk AG & Co. KGaA Moislinger Alle 53-55 23558 Lübeck

Technical data CHP

Go live:	2007, engine replacement April 2020
Engine type:	MWM TCG 2020 V12 (1 MW genset)
Generator:	Marelli MJB 450 LB4
Control:	MWM TEM/Eldata auxiliary drive and genset control
Plant builder:	Stadtwerke Lübeck GmbH
Electrical efficiency:	41.7 %
Thermal efficiency:	53.0 %
Electrical output:	999 kW
Thermal output:	1,272 kW
Total efficiency:	94.7 %



Photo: Stadtwerke Lübeck GmbH



Photo: Caterpillar Energy Solutions GmbH

Reliable Customer Care for 13 Years

Since 2007, an MWM cogeneration power plant has been supplying Dräger in Lübeck with heat and power. From the outset, the plant has been supervised by the MWM Service Center North in Berlin. Following the replacement of the engine to improve the efficiency, this long-standing successful collaboration in the field of installation and maintenance now also continues with the new operator Stadtwerke Lübeck GmbH.

Caterpillar Energy Solutions GmbH

Carl-Benz-Str. 1
68167 Mannheim, Germany
T +49 621 384-0 | info@mwm.net
F +49 621 384-8800 | www.mwm.net