

# KWK-tec prepares biogas plant for the future



Bioenergie Extertal GmbH & Co. KG is committed to the future-proof modernization of its biogas plant and, as part of a comprehensive refit project, has upgraded three existing CHP plants to the latest technical standards. The goal was to sustainably improve the plant's economic efficiency, increase operational reliability, and create the conditions for optimal electricity and heat sales.

The project was planned and implemented by KWK-tec GmbH, a subsidiary of 2G Energy AG.

In addition, KWK-tec supported the various project phases — from planning to successful commissioning.

As part of the modernization, three existing units were optimized and equipped with three agenitor 408 modules. Each unit has an electrical output of 360 kW and offers high efficiency and reliable continuous operation.

In addition to replacing the engines, the project also included a comprehensive control system

overhaul. Furthermore, the existing exhaust heat exchanger was optimized to enable more efficient heat recovery and to further improve the energy utilization of the biogas produced.

Thanks to the modernization measures, the plant benefits from significantly reduced downtime, higher plant availability, and lower maintenance costs. At the same time, energy generation efficiency has been increased, resulting in a sustainable improvement in the plant's operational profitability.

Through the Refit project, Bioenergie Extertal GmbH & Co. KG demonstrates how existing biogas plants can be made ready to meet the future demands of the energy market through targeted technical upgrades.

The combination of modern engine technology, optimized heat extraction, and intelligent control systems lays the foundation for economical and reliable

plant operation over many years.

KWK-tec's successful implementation underscores the potential of professional refit solutions to make existing plants more efficient, more cost-effective, and future-proof.



**Bioenergie Extertal GmbH & Co. KG**

3 x agenitor 408

Biogas

3 x 360 kW electrical

3 x 373 kW thermal

