



Central sewage treatment plant, Altenburg

Data and facts

Company	PORR GmbH & Co. KGaA
Type	Supply and disposal facilities
Runtime	01.2021 - 07.2023
Principal	Wasserversorgungs- und Abwasserentsorgungsbetriebs Altenburg (WABA)

[Project report online](#)

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Sewage sludge as a future source of energy.

It was built from reinforced concrete and houses the pump systems, new centrifuges for more efficient sludge dewatering and three CHP units.

The two 17m high digestion towers, each with a diameter of 14m and a useful volume of 2,100m³, are made of steel plates which were welded together on the construction site. Their purpose is to digest and stabilise the sewage sludge, making it easier to dewater and utilise afterwards. The digester gas produced during fermentation is used to generate electricity and heat in the CHP units, effectively making the sewage treatment plant self-sufficient in terms of energy.

High degree of coordination required

The confined construction area means that a great deal of coordination is required. As the sewage treatment plant was kept running while the conversion work was being carried out, all the wastewater was pumped directly from the grit chamber into the aeration basins via a temporary siphon line while the primary clarifier was being constructed. The civil engineering team mastered the construction task with all the associated challenges with flying colours.

Impressions



Image notes

1

Central sewage treatment plant, Altenburg

PORR Civil Engineering was the general contractor responsible for the conversion and expansion of the sewage treatment plant in Altenburg.

2

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The narrow construction site requires a high level of coordination.

Do you have questions about the project or would you like to learn more? Feel free to contact us for further information.

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