



Replacing the Töging-Jettenbach power station

Data and facts

Company	PORR GmbH & Co. KGaA
Type	Foundations
Runtime	10.2018 - 12.2022
Principal	Verbund Innkraftwerke GmbH (Inn Power Plant consortium)

[Project report online](#)

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More power

– a mixture of bentonite, cement, slag sand and blast furnace slag. With this method, the support fluid is kept in constant motion by the activity of the diaphragm grab, preventing the cement from setting.

Once excavation is complete, the cement sets to form a watertight, hardened wall in the subsoil. Since the sealing wall cannot serve any structural function, bored piles were built inside the sealing wall to take on the bearing function. This technique had already been tested for diaphragm walls up to 40m deep and excavation periods of up to 14 hours.

However, the diaphragm wall depth at Töging was 72m and the planned excavation period 24 hours. To test the procedure for feasibility under these conditions, large-scale tests were carried out in Himberg.

Continuous optimisation

Almost all areas of specialist civil engineering were involved in the central construction pit. The situation on the construction site changed constantly during the excavation, and the work had to be regularly adapted to new conditions.

PORR was able to introduce various additional optimisations while excavating the construction pit. For example, the original dewatering scheme used 100 dewatering wells, but we were able to implement it with just 60 wells.

Another improvement: the majority of the originally planned secant bored pile walls were replaced with spaced bored piling, secured with spandrels using the jet grouting method. This saved on both construction time and wear. An initially highly complex measurement system was also simplified thanks to PORR's expertise.

Find out more about the project in the World of PORR

<https://worldofporr.com/en/1752020/toeing-jettenbach-power-station-replacement/>

Impressions



Image notes

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Shoulder to shoulder for success

Execution in Jettenback and Töging was carried out by a team of PORR specialists from various departments.

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

PORR AG Group Communications

Absberggasse 47

1100 Wien

T +43 50 626-0

E-Mail: comms@porr-group.com