



Combined cycle power station, Herne

Data and facts

Company	PORR Spezialtiefbau GmbH
Type	Foundations
Runtime	01.2019 - 12.2020
Principal	Siemens Division Power & Gas

[Project report online](#)

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Carefully considered foundations reduce CO2

pile test loading processes in June and July 2019. During this period, two test piles were subjected to dynamic pile tests, static pile tests under pressure and horizontal static pile tests to confirm the load bearing requirements of the project could be satisfactorily met. All tests were successful. In fact, the planned loads were so safely transferred that the pile design was able to be further optimised.

Economical and resource-efficient foundations

A total of 777 Frankipfahl NG® piles were inserted to a penetration depth of approx. 16m into the marl soil to create the pile foundation of the plant. Once construction was complete, the quality of the concrete and manufactured piles was documented with the use of pile integrity testing. Due to sophisticated cycle planning, the team was able to reduce the planned execution time by three weeks. The optimisation proposal presented by our foundation experts also reduced the volume of concrete required by around 6,000m³. Less concrete used and less borehole cuttings to remove meant saving more than 800 transport loads. Ultimately, the Herne combined cycle power plant foundation project was completed in an economical fashion and with an outstanding CO₂ balance sheet.

Impressions

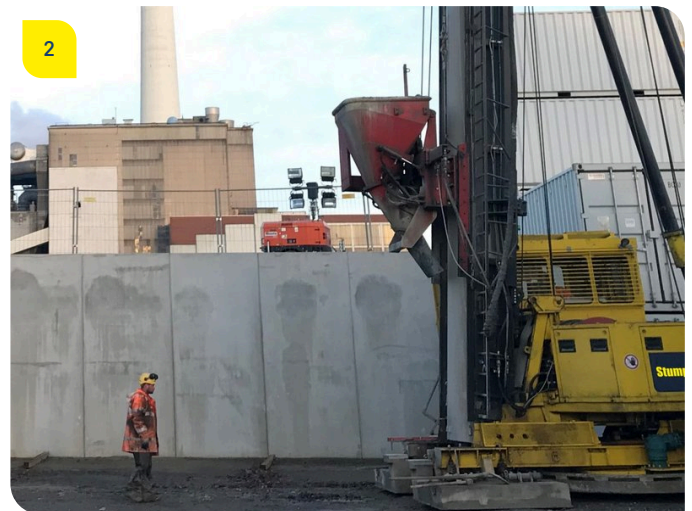


Image notes

1

Gas- und Dampf-Kraftwerk (GuD), Herne

For the pile foundation, 777 Frankipfähle NG® piles were installed in the marl at a driving depth of approx. 16 metres.

2

Gas- und Dampf-Kraftwerk (GuD), Herne

Thanks to sophisticated cycle planning, the planned execution time was reduced by three weeks and the optimisation proposal from the foundation experts saved around 6,000 m³ of concrete.

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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