



# New gas power plant, Leipheim

## Data and facts

Company	PORR Spezialtiefbau GmbH
Type	Foundations
Runtime	04.2021 - 09.2021
Principal	Siemens Energy Global GmbH & Co. KG

[Project report online](#)

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# Deep foundations with Franki piles

## Green Franki piles for lower carbon emissions

The construction of power plants is subject to stringent technical specifications regarding the loads that are to be absorbed. The Leipheim gas turbine alone weighs 300 tonnes, so a highly precise pile design is required to ensure dependable distribution to the load-bearing layers. Static and dynamic pile load testing allowed the technical design and cost-effectiveness of the foundation method to be optimised in advance. Ultimately, 286 NG® Franki piles measuring approximately 12 m in length and with diameters of 51, 56 or 61 cm were used. These slender displacement piles also score highly in terms of sustainability: the carbon emissions associated with their manufacture were around 50% lower than the originally tendered pile system.

Thanks to comprehensive advance project and planning work, the Leipheim gas power plant will be built in just under three years. The tight schedule has kept the PORR team on their toes. By maintaining ongoing coordination with the client, this part of the project was completed on schedule before the groundbreaking ceremony.



# Impressions



## Image notes

1 New gas power plant, Leipzig

2 IMG 8061

Exposed Franki piles: preparing to cut off the pile head.

3

New gas power plant, Leipheim

Exposed reinforcement cage.

4

New gas power plant, Leipheim

Static pile load testing.

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New gas power plant, Leipheim

Dynamic pile load testing.

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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