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# Project Owner:

Amprion GmbH

# Client:

GA Hochspannung Leitungsbau GmbH

## Quick Info:

Enhancement of a 380 kV-Pylon by means of TITAN-piles.

Because of new technical regulations regarding the engineering design of electricity pylons in Germany, an old pylon foundation plate had to be enhanced with 12 TITAN-piles. The exceptionally small gap between pole legs and pile heads had to be increased by 10 - 15 cm after undertaking extensive tests on the foundation. Before beginning our piling works, the 5m stacked foundation plate was perforated by core drillings Ø 200 mm.



Image 1

# Technical Information:

System:
Quantity:
Length:
Service Load:
Technique:
Building Ground:
Time Frame of Works:

TITAN-pile, type 73/53 12 pcs. 12,50 m up to 491 kN self-bore flush drilling Sands and clay July – August 2011



Image 2

The extraordinarily low quality of the concrete caused major challenges to those activities, as the removal of the concrete core pieces turned out to be much more timeconsuming and heavy on the drill tools than anticipated. Afterwards, each of the core drill holes was tested for warfare agents. The actual piling works went with no further surprises. In total, we produced 12 TI-TAN-piles of type 73/53 and in lengths of 12,50 m each to support the foundation and make it ground-proof for the next decades.

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