

LNG Terminal in Świnoujście

Świnoujście, Poland

Expansion of the marine part of the Liquefied Natural Gas Regasification Terminal in Świnoujście



The project

Expansion of the marine part of the Liquefied Natural Gas Regasification Terminal in Świnoujście - vibration monitoring and test loading of steel piles

The challenge

Provide vibration monitoring of the existing LNG terminal and nearby offshore infrastructure during steel pile driving in the water. Design of the pile driving rigs and the method of performing push and pull test loads. Execution of pile driving tests under extremely difficult conditions - on water and on the dyke.

The solution

Developing a vibration monitoring project and taking measurements during piling work on water. Thanks to continuous observation of vibration velocity, it was possible to ensure the safety of the technical infrastructure of the existing gas port and the offshore infrastructure located in the vicinity. Design and execution of an original solution to the construction of load test stands and a comprehensive programme of pipe pile load tests with a force of approx. 7.5MN.

Project facts

Owner(s)

Gaz-System S.A.

Keller business unit(s)

Geo-Instruments Polska

Main contractor(s)

PORR S.A.

TGE Gas Engineering GmbH

Engineer(s)

Jerzy Pieronkiewicz - Technical Director

Tomasz Ziętkowski - Monitoring Engineer

Piotr Szczerba - Site Engineer

Paweł Faryna - Foreman

Patryk Gajosz - Site worker

Services

Deep foundations testing

Environmental monitoring

Markets

Industrial

Infrastructure

Technologies

Vibration and noise monitors

Deep foundation load tests