

Liquefied natural gas tanks

Skikda

Liquefaction mitigation using stone columns.



The project

The project developed by Sonatrach was for the construction of a liquefied natural gas train consisting of three tanks, with a storage capacity of more than 316,000 m³ of gas.

The challenge

The soil study report indicated soils composed of soft clay and sandy layers requiring treatment up to 25 metres deep, despite the presence of compact layers between nine and 12 metres deep.

The solution

To treat the liquefaction of the soil, Keller installed more than 62,500 ml of stone columns (with load handling provided by piles). The stopping depths of the stone columns was predetermined by zoning according to the soil tests (depth from 12 to 25 metres). Different predrilling techniques were also used in the dense soil layers between 9 and 12 metres.

Project facts

Owner(s)

Kellogg Brown & Root International

Keller business unit(s)

Keller Algeria

Main contractor(s)

Sonatrach

Solutions

Liquefaction mitigation

Markets

Industrial

Techniques

Vibro stone columns / Vibro replacement

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