

FSRU Toscana : a world premiere, a significant construction

Sirehna provides the positioning system of the FSRU Toscana, the first floating 'gas plant' in the world.

FSRU Toscana is the first ship of this size (288m. long and 48 m. wide) converted by Saipem into a liquefied natural gas storage and regasification floating unit.

The ship was converted to an estimated one hundred million



FSRU Toscana

The main technical challenge was to develop a system able to control accurately the heading of a ship using a stern tunnel thruster, dealing with important nonlinear phenomena due to the mooring located at the bow. This new heading-keeping system is based on the EasyDP system – the commercial DP system developed for more than 10 years – and embeds the latests control algorithms developed by Sirehna.



FSRU Livorno (floating storage and regasification unit for liquefied natural gas)

Converted in Dubai from the Golar Frost, a 2004-built LNG carrier, FSRU Livorno is now permanently moored off the coasts of Livorno (Italy). It will be used as a regasification terminal and export point. This will be the first floating re-gasification terminal ever built to work in open sea. This project, developed from square one, spares the construction of harbour facilities but presents a real technological challenge.