

Snohvit LNG Project, Melkoya Island, Hammerfest, Norway

Client: Statoil



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PET 18



Above: Cold box prior to loadout

Fagioli SpA carried out the transport, lift and installation of over 180 modules as well as one exceptionally heavy cold box assembly and a flare tower for a new LNG plant on Melkoya Island off the Northern coast of Norway.

The cold box weighing 2,635 tonne was transported from its fabrication yard in Antwerp, Belgium to Melkoya Island. The 68m high structure was first weighed utilising Self Propelled Modular Transporters (SPMTs) hydraulics fitted with calibrated pressure gauges and the centre of gravity calculated to within an accuracy of +/- 3%. The cold box was transported using 144 rows of SPMTs along a specially constructed roadway to the loadout jetty where it was transferred to the ocean barge BOA 21. After sea fastening of the structure, the barge and cold box was floated onto a submersible heavy lift ship for the 1,700 mile voyage to Melkoya Island.



Above: Flare Tower part way through lift

The barge was then re-floated and positioned alongside the foundations at Melkoya. Fagioli performed the load in operations at site and placed the structure directly onto its foundation using an identical SPMT arrangement as used for the loadout.

Fagioli PSC performed a spectacular erection of a 137 metre high flare tower. This 609-tonne lattice mast type flare was raised into a vertical position by two of Fagioli PSC's 80-metre-high lifting towers, with one L450 Strand Jack on top of each tower which carried out the lifting of the flare tower and two L300s at ground level which were used as tie backs. Two SPMTs (20 axles) were used for tailing.

Throughout the Hammerfest project Fagioli's top priority was to execute all activities onsite under high safety standards as such Fagioli were awarded one of the prestigious SNØHVIT HSE AWARDS.



Above: Another photo of the spectacular erection of the flare tower.

Below: A photo of a 900 tonne module being transported using SPMTs

Below: a list of the pieces installed by Fagioli on the island throughout the whole project!!

Unit Type	Total no. of installed unit	Total weights (t)
PAR	44	5,784
PAU	69	15,717
VAU	14	2,026
PAS	5	153
SL	53	1,953
Cold Box	1	2,700
Flare tower	1	607
TOTAL	187	28,940

