



Hydro

Case study

Project brief: On behalf of HYDRO GAS and CHEMICALS Ltd., ALS were selected to transport 2 x 200 ton CO2 storage vessels from Willebroek, Belgium to Teesside Offshore Base, Middlesborough. The equipment was required for installation and commissioning at the UK's most advanced CO2 storage and supply facility.

Due to the ultra heavy weight of the 200 tonne units, combined with a length of 40 metres (equivalent to 3 standard trailers), 5.64 metres diameter and a height of 6.50 metres, the challenge was to provide a safe and cost effective method of moving these storage vessels from the heart of Belgium to the UK. The priorities were to minimise disruption to traffic and to ensure the maximum in-transit protection to the two delicate insulated tanks.

At ALS the first priority is to appoint one of our dedicated Project Managers, all of whom have significant project management experience. From this point until the project's completion ALS' Project Manager was on call 24 hours a day, working closely and liaising with the client.

In addition qualified ALS personnel were in attendance to supervise crane and shipping operations at every stage of the project movement.

After assessing the movement options ALS' solution was to provide a suitable low draft wide beam vessel with a tall hatch to minimise transportation via road, whilst offering full weather protection from salt-water contamination, i.e. total below deck shipment for the full river/sea passage.

Due to the nature of the vessel chartered ALS were able to position the ship directly at the point of manufacture, using the factory's own river berth, thereby facilitating the movement directly to Teesside and avoiding the risk and cost associated with double handling/transhipment in Antwerp.

Road transport from Teesside to the installation site was less than one mile, thus greatly reducing police escort, road transport and street furniture removal costs. ALS provided a crane to handle installation to the plinth rather than jacking as this was considered a quicker, safer and more cost-effective solution.

The whole operation was a tremendous success from time of collection to the time of delivery the entire operation took less than five days and was delivered on time and within budget.



1. Removal from ship on route to installation
2. Installation of Storage vessels to plinths
- 3&4. Loading to combined canal/sea transport