ALL OUR EXPERTISE IN LNG TANK REPAIR MANAGEMENT, AT YOUR SERVICE
WHY TRUST US WITH YOUR LNG TANK REPAIR MANAGEMENT?

Innovation, passion and safety
In Elengy, we commit to help you solve your most complex challenges and restrictions. Are you seeking to operate on multiple or different LNG tanks, or are you undergoing an expansion? We pride ourselves on offering solutions tailored to your individual needs.

Support for modeling phenomena
We take safety and operation procedures very seriously. We handle all preparation to determine the scope of work that needs to be undertaken and define all follow-up parameters.

Solutions tailored to your needs
We work with state-of-the-art techniques that have been performed under air, nitrogen or cryogenic atmospheres.

Project management and implementation
We offer comprehensive project management and tailor-made solutions that have been developed in tandem with your teams.

WHY TRUST US WITH YOUR LNG TANK REPAIR MANAGEMENT?

During the repair of a LNG tank at Fos Tonkin (2013)
Two operators lowering and positioning the tools from a table

OUR ACHIEVEMENTS SO FAR...
When it comes to repairing LNG terminals, we’ve invested a lot. In that time, we’ve gained extensive experience in managing sanitation situations, repair or modification projects inside LNG tanks. With a wealth of knowledge and experience, we can handle any challenges.

1965 Repair in nitrogen atmosphere on a single containment tank.
1967 Repair in air atmosphere on two single containment tanks.
1990 Repair in air atmosphere on a tank (propylene).
1991 Repair in air atmosphere on a tank (propylene).
2009 Repair in cryogenic atmosphere on a single containment tank.
2013 Repair in cryogenic atmosphere on a single containment tank.

The Fos Tonkin project - a world first
In late 2012, an LNG tank at Fos Tonkin terminal was taken offline because of a serious fault. The reason: a cable activating the check valve at the end of the main LNG pipe had broken off, leaving the isolating device in a shut position. After considering different options, Elengy decided to fix the internal equipment in Cryogenic atmosphere - i.e at a temperature of -160°C - and a pressure of around 30 mbar. This meant that we could carry out the repair work without decommissioning the tank.

Benefits and learnings
Repairing the valve in cryogenic conditions proved to be safer and eliminated the risk of tank damage caused by potential expansion. It was also less expensive and less disruptive to the operator than other solutions that would have involved decommissioning and recommissioning.

One of our most challenging repair...

Extreme conditions
Besides the atmospheric difficulties due to the cold, we had to deal with the challenging repair of the failing device from a nozzle located on the roof of the tank with the check valve activated by a cable.

Tailer-made tools
Together with teams at COMEX and INTRO-VISION, we developed new and bespoke tools: external and in-tank cameras with their associated lighting system (a), grinding device (b), prehensile and hooking equipment (c).

A successful operation and a world first
The repair operation went extremely smoothly and was managed to the highest safety standards. We managed to grip, cut and extract the cable, then install a new one, all within a week. And in March 2013, three days after the operation, the tank was back online.

Careful planning and preparation of the tools from a platform during the repair of a LNG tank at Fos Tonkin (2013)

Reproducibility and automation of the repair of LNG tanks at Fos Tonkin (2013)
A successful operation and a world first

We trialed our tools on a representative model, drenched in liquid nitrogen, as well as on the outside of another LNG tank. After successful completion of a test run, we also installed a platform on the top of the tank and a positioning table for guiding the tools.

In partnership with
Our values

drive
commitment
daring
cohesion