



The sustainable cold logistics hub at the Enagás regasification plant in Huelva receives financing from ERDF funds and public aid from the CDTI

- The project – spearheaded by Enagás and the start-up e4efficiency – was developed by the Corporate Entrepreneurship and Open Innovation Programme 'Enagás Emprende', and is working together with the companies Ariema Enerxia and UniFood Group.
- The main goal of the initiative is to use the residual cold from the regasification process of liquefied natural gas (LNG) to refrigerate foods in a deep-freeze warehouse.
- This project is financed by the European Regional Development Fund (ERDF), and has also received public support from the Centre for the Development of Industrial Technology (CDTI). The cost of this initiative is around 2 million euros.

Madrid, 10 October 2019. The Enagás regasification plant project in Huelva, which will use leftover cold from the regasification process of liquefied natural gas (LNG) has received funding from the European Regional Development Fund (ERDF) and public aid from the Centre for Industrial Technological Development (CDTI) as part of the support framework for initiatives that promote ecological transition and the circular economy. This Enagás project is called the 'Shaky Project'.

The project will use residual LNG cold to refrigerate food in a deep-freeze warehouse and will also manage the cold chain. In addition, this initiative will produce fresh water from seawater and create hydrogen for fuel cells.

The 'Shaky Project', which began in October 2018, is being set up in Huelva by Enagás and the start-up e4efficiency, and was developed by the Corporate Entrepreneurship and Open Innovation Programme 'Enagás Emprende'. Ariema Enerxia and UniFood Group are also participating in the project.

Costing around 2 million euros, it is expected to be up and running within 27 months. The use of residual LNG cold results in considerable savings both economically and in terms of energy when compared to conventional deep-freeze warehouses.

Using leftover LNG cold

In the regasification process, residual cold is produced from the low temperatures that LNG reaches (-160°C), which is currently wasted. The 'Shaky Project' will use leftover LNG cold to create a novel freezing system to produce ice and to deep freeze food-related goods. This process is designed to completely freeze products at a temperature of less than -35°C.

Press release



Furthermore, this initiative aims to take advantage of part of this cryogenic energy and convert it into other forms of energy to produce distilled water and hydrogen from the thermal jumps that occur during the process.



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