

Press Release

15 July 2019



Dohmeyer to join the CryoHub team to complete the final integration and process design and to build and install the demonstrator.

The EU CryoHub project is proud to announce that Dohmeyer are joining the project team and will be responsible for completing the final integration and process design of the demonstrator, and then for taking the design from the conceptual phase to an installed and working unit at Frigologix.

Dohmeyer is a leading global manufacturer of cryogenic systems for industries as diverse as food processing, pharmaceuticals, aeronautics, plastics and steel production. For more than a decade, Dohmeyer has been involved in the development of innovative cryogenic chilling and freezing solutions. Dohmeyer manufacture a catalogue of standard products as well as carrying out feasibility studies, leading to the design and build of bespoke solutions. They bring expertise in environmental innovation and industrial manufacturing. Dohmeyer are based in Europe with a manufacturing site in Poland but have a global reach.

Judith Evans of CryoHub confirmed that the team is excited to welcome the expertise in delivering innovative solutions in cryogenics that Dohmeyer will bring to the project “Having experts like Tomasz Kucwaj, VP Technology at Dohmeyer, involved will really catapult the project forward to its next stage of implementing the demonstrator at our chosen Frigologix site in Belgium”.

David Ross of Dohmeyer has said that the company is delighted to have been invited to join the team and is looking forward to bringing its expertise to an EU Commission project and to working with all the other members to bring this exciting project to a conclusion.

The CryoHub project which commenced in 2016, investigates and extends the potential for large-scale cryogenic energy storage. It is a fifty-six month EU co-funded project under the Horizon 2020 programme and comprises a team of 14 partner organisations from 5 EU countries. See www.cryohub.eu for information about the partners, future workshops and to register for regular updates.

How CryoHub works

An important effect of generating power from liquid air is the ability to absorb heat at low temperatures. This is what a cold store does and therefore there appears to be a synergy between cold store warehouse facilities and cryogenic energy storage. Pure atmospheric air can be liquefied by employing renewable energy and then stored and used to generate electricity (via a turbine) at periods of peak grid demand. At the same time, refrigerated facilities can be cooled and waste heat

can eventually be recovered to improve the efficiency of the cryogenic expansion process. The success of such technologies to date has been rather limited due to poor round trip efficiency (ratio of energy out to energy in) and unrecovered energy losses. The CryoHub project explores the potential to maximise efficiencies by regenerating energy from the refrigeration plants of food storage warehouses. www.cryohub.eu

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