



CRYOSTAR SAS, FRANCE

Key Facts

Company: Cryostar

Website: www.cryostar.com

Employees: 450

Revenue: US\$264 million (210 million €)

Industry: Power

Country: France

Products Used:

- Intergraph Smart® 3D
- Intergraph Smart P&ID
- Intergraph Smart Review
- Intergraph Smart Instrumentation
- SmartPlant® Foundation

Key Benefits:

- Lowered engineering costs for deliverables
- Streamlined management of modifications
- Reduced on-site rework rate to less than 3%

CRYOSTAR SELECTS HEXAGON SOLUTIONS TO IMPROVE QUALITY IN FULL PROJECT DELIVERABLES

Industry Leader Integrates Components for Plant Projects, Lowers Deliverable Costs

Founded in 1966, Cryostar is a pioneer in the design and manufacture of cryogenic equipment. The company specializes in cryogenic pumps, turbines, compressors, heat exchangers, and automatic filling stations for industrial gases, natural gases and clean energy. Cryostar also markets LCNG and LNG refueling stations, as well as small-scale liquefaction plants to liquefy gas from the pipeline grid. Cryostar offers CO₂-free power generation (pressure-let-down, geothermal, and waste heat recovery) by supplying turboexpander-generator alone, or providing complete ORCs, all the way to delivering turnkey power plants.

IDENTIFYING GOALS

For more than four decades Cryostar SAS has specialized in designing and manufacturing cryogenic equipment. In the 21st century, the company has expanded its offerings to include process plants for natural gas and clean energy. To remain a leader in the industry and meet customer demands, Cryostar wanted the ability to integrate all components for a power plant, as well as gas liquefaction projects. These components included process, piping, instrumentation, structure and equipment.

A completely integrated system would ensure higher-quality deliverables for projects and streamline the modification process. Cryostar selected Hexagon solutions to integrate the design, process, piping, instrumentation and structural tasks of its power plant and gas liquefaction projects.



OVERCOMING CHALLENGES

- Improve quality for full project deliverables
- Enhance time management for search and modifications
- Support pipes in 3D model

REALIZING RESULTS

Cryostar implemented Hexagon's Smart 3D, Smart P&ID, Smart Review, SmartPlant Foundation, and Smart Instrumentation solutions to ensure the quality and accuracy of the information transmitted by the 3D models and other deliverables it submits to customers. Additionally, the company was looking for a fully-integrated solution to link the 3D module instrumentation to the P&ID, providing support for the pipes in the 3D model and automatically generating catalogs from this data.

Hexagon's comprehensive plant engineering solution provides full design, construction, materials, and engineering data management capabilities needed for the creation, safe operation and maintenance, and capital Project Life Cycle Management (cPLM) of large-scale process, power, marine and offshore projects. The software's lifecycle data management also enables a smoother handover from EPCs to owner operators and for owner operators to more easily maintain, refurbish, or modify their plants.

Initially, there are approximately 20 Cryostar employees working with the Hexagon solutions, all of whom became operational on the software in just three months of training. Since implementation, Cryostar has substantially lowered engineering deliverable costs, has experienced a simpler management process for modifications of project documentation, and has reduced on-site rework rates to below 3%.

"As we become more familiar with these applications, we expect to improve on these benefits, which will help us deliver higher-quality results to our customers and increase our competitiveness in the industry," said Didier Bertrand, project manager at Cryostar.

MOVING FORWARD

Cryostar plans to continue the integration of its engineering applications, including the company's most recent addition, Smart Instrumentation.



The integration of our engineering and data management applications through the Hexagon solutions has shown us real-time productivity improvements."

Didier Bertrand

Project Manager, Cryostar

ABOUT HEXAGON

Hexagon is a global leader in sensor, software and autonomous solutions. We are putting data to work to boost efficiency, productivity, and quality across industrial, manufacturing, infrastructure, safety, and mobility applications.

Our technologies are shaping urban and production ecosystems to become increasingly connected and autonomous — ensuring a scalable, sustainable future.

Hexagon's PPM division empowers its clients to transform unstructured information into a smart digital asset to visualize, build and manage structures and facilities of all complexities, ensuring safe and efficient operation throughout the entire lifecycle.

Hexagon (Nasdaq Stockholm: HEXA B) has approximately 20,000 employees in 50 countries and net sales of approximately 3.8bn EUR. Learn more at [hexagon.com](https://www.hexagon.com) and follow us @HexagonAB.