

PLANT ENGINEERING

CREADIS – THE TRUSTED PLANT ENGINEERING ADVISER FOR COMPANIES WHO NEED A SOLUTION ABLE TO BALANCE EFFICIENCY, SUSTAINABILITY AND CUSTOMIZED TECHNOLOGIES, WITH FAST TIME-TO-MARKET.



Tired of standard solutions that never quite suit your production? Then CREADIS Plant Engineering can help you with your next project. We customize project processes and the finished result to each individual problem, and our team of over 700 engineers combines daily creativity and knowledge to create valuable technologies able to interface with the customer's requirements.

CREADIS aims to help customers with sustainable and profitable growth. But it's not just about business. We want to build meaningful partnerships. As your trusted adviser, we'll sit on the same side of the table from day one to solve your task. We prioritize good project planning from the early stages through to production, operation and maintenance – to ensure rapid project execution.

WITH CREADIS PLANT ENGINEERING, YOU GET:

- A long-term partnership where trust is key. We ensure a clear division of roles and predictability, but in a flexible setup.
- A one-stop-shop, saving you time dealing with multiple suppliers. CREADIS is your only contact, and we'll take care of all elements of a project. The components we do not already have, we create.
- Commitment on the construction site as well as in the operational phase, helping to optimize using data. We can save you problems in the future, because we can anticipate when maintenance is needed.
- A scalable setup with access to skilled engineers in Denmark and throughout Europe.
- We stick to schedule and ensure execution on time.

CREADIS PLANT ENGINEERING SERVICES

✔ Technical and operational due diligence

✔ Multidisciplinary engineering services

✔ Equipment design and manufacturing

✔ Digitization solutions and services

✔ Project Management Services

✔ Discrete manufacturing

✔ Construction supervision and commissioning services

✔ Operation and maintenance services

PLANT ENGINEERING

CASE: HALDOR TOPSOE



CREADIS IS TRUSTED TO EXECUTE A LARGE-SCALE PLANT PROJECT FOR HALDOR TOPSOE IN THE US

In 2020, Haldor Topsoe had a unique request for CREADIS; to assist in the development of a 15,000-ton hydro processing catalyst plant in Pasadena, Texas, and to have it fully operating in 2023.

In all industrial markets, a well-known and critical key factor in establishing cost-effective and profitable projects is time to market. To be able to ramp up complex plant facilities is a necessity for getting access to these markets. So, when Haldor Topsoe decided to invest in increasing their production capacity, CREADIS was, from the beginning, focused on aligning expectations and preparing for an effective execution process to make sure that time and quality were equally balanced.

SOLID FOUNDATION

As CREADIS for years has been assisting clients in establishing production and process facilities globally, CREADIS has built up a strong understanding of what elements need to be in place to ensure flexible and agile cooperation. This was one of the reasons why Haldor Topsoe chose CREADIS as their partner. Also, as the two companies have a long history of collaborating on various projects, the foundation was built on mutual trust.

SUCCESSFUL EXECUTION

This time, the project's scope was unlike other projects CREADIS had done for Haldor Topsoe. From the concept phase to commissioning, CREADIS is responsible for all engineering and supervision activities of the project. The new plant will deliver products for traditional refining and for use with Topsoe's HydroFlex™ technology to produce renewable diesel and jet fuel. To avoid unnecessary loss of time in establishing the cooperation, CREADIS incorporated workflows

to complement Topsoe's, acting as their extended arm. By doing so, it was possible to integrate engineering capabilities in Poland and bring local knowledge about regulatory requirements, permissions, etc., from a US-based civil engineering consultancy company named Dewberry. This was done while working closely with Topsoe in Denmark.

"In CREADIS, we are used to managing multi-disciplined projects within many different industries. However, we always believe that with passion, knowledge, and trust, we have what it takes to build great projects with our clients. So, when we got the opportunity to execute a challenging project like the catalyst plant in Pasadena, we allocated all necessary resources and competences to make it successful", says Johnny Mikkelsen, Project Director, CREADIS.

ADAPT AND OVERCOME

One could argue that taking on such a large, complex project in the middle of a global pandemic would be too risky and challenging.

Nevertheless, in the summer of 2020, CREADIS and Haldor Topsoe signed the collaboration agreement. In the months after, the project teams from all companies were not able to physically meet or travel to the US or Poland. Consequently, CREADIS set up a strong team of project leads whose job was to encounter the challenges, especially communicational and technical. With a clear set of roles & responsibilities across three countries, CREADIS was able to make effective and quick decisions from the early kick-off phase to ensure that the project was going forward as planned.

Working in a project environment with many changes, good communication helped compensate for the lack of physical presence without compromising quality and milestones.

"Executing a project like the catalyst plant has been demanding. Even though there has been challenges, good cooperation has ensured that we are on time and expect to be ready for operation in 2023." says Sten Gøtzche Nielsen, Project Director, Haldor Topsoe.

Version 01 (12-2021)