



## FACTS AT A GLANCE

**Company:** CNOOC Offshore Oil Engineering Company Limited

**Website:** [www.cnoocengineering.com](http://www.cnoocengineering.com)

**Description:** COOEC is a subsidiary of China National Offshore Oil Corporation (CNOOC). It is the largest offshore engineering construction enterprise and the only large-scale general contracting company in China integrating offshore oil and gas exploration and production design, onshore production and offshore installation, and commissioning and maintenance. COOEC deals with the exploration of oil and gas fields, the design and construction of auxiliary projects, and offshore installations as its major businesses.

**Industry:** Offshore

**Country:** China

## PRODUCTS USED

- SmartPlant® Foundation

## KEY BENEFITS

- Enhanced information management with easy access to high-quality, accurate engineering data
- Improved information sharing between stakeholders and across disciplines
- Effective decision-making for increased safety, quality, and productivity of engineering projects

## COOEC USES SMARTPLANT® FOUNDATION FOR INFORMATION MANAGEMENT OF OFFSHORE PROJECTS

**Intergraph® technology enables an integrated system to manage detailed design and engineering information for effective decision-making**

### IDENTIFYING GOALS

CNOOC Offshore Oil Engineering Company Limited (COOEC) is a subsidiary of China National Offshore Oil Corporation (CNOOC), and provides offshore engineering and construction services to CNOOC and companies all around the world. COOEC specializes in the design, construction, and offshore installation and commissioning of oil and gas fields.

COOEC determined that it needed to improve its information management process. Most of its information sharing was still done manually, which is tedious and unreliable, resulting in data inconsistencies and inaccuracies. A traditional information management method also impeded the efficient sharing of information between disciplines and departments, which could result in a bottleneck and slow down project schedules. This was a critical issue that COOEC needed to address, particularly as it takes on more offshore engineering projects. Such information management inefficiencies needed to be eliminated in order for COOEC to meet its project schedules.

### OVERCOMING CHALLENGES

- Eliminate manual information sharing via paper records
- Improve data consistency and accuracy
- Enhance resource coordination and accelerate project schedules

### REALIZING RESULTS

After a comprehensive evaluation of all solutions available in the market, COOEC chose Intergraph® SmartPlant® Foundation. The Chinese offshore engineering company determined that SmartPlant Foundation was the best fit for its requirements, enabling it to establish an information management system to share design and engineering information effectively. COOEC could also then allocate its resources more efficiently, making the overall project management process smoother and more accurate.

SmartPlant Foundation is the leading, standards-based Capital Project Life-cycle Management (cPLM) solution for the process, power, and marine industries, and is applicable for projects both large and small. It has been selected as the information

management and integration system of choice by over 500 owner operators and engineering, procurement, and construction (EPC) companies worldwide, including COOEC.

SmartPlant Foundation has the broadest solution footprint in the industry with capabilities that span the entire project life cycle, ranging from simple document management to configuration management in highly regulated industries. Its forte is the ability to manage massively interrelated, interdependent, and rapidly evolving data that is the backbone of SmartPlant Enterprise, Intergraph's multi-discipline integrated engineering suite.

Intergraph worked closely with COOEC for the implementation of SmartPlant Foundation, helping to customize the system to meet the company's design engineering project requirements. Based on the workflow processes established in SmartPlant Foundation, COOEC engineers are able to complete the configuration for each design task, which is then recorded in the Intergraph system. This enables an automated and accurate flow of task information, reflecting the actual progress of the project.

With SmartPlant Foundation as its integrated information management system, COOEC is able to store and share critical engineering information centrally across multiple disciplines. This also provides management and key stakeholders with quick, easy access to accurate information for effective decision-making. Making the right decisions early helps to improve project efficiency and productivity for significant time and cost savings.

SmartPlant Foundation also enables COOEC to manage information from any subcontractors involved in the project. Even if a design has been created offsite, all the engineering information is tracked via the central SmartPlant Foundation system. COOEC is able to supply real-time project information from all disciplines and subcontractors to owners, which is accurate and consistent.

## MOVING FORWARD

COOEC is looking to expand the use of SmartPlant Foundation to several new projects. The Intergraph solution has helped COOEC to improve productivity and save costs, and the company wants to maximize the benefits of SmartPlant Foundation by applying the solution across its business operations.



## ABOUT INTERGRAPH

Intergraph is the leading global provider of engineering and geospatial software that enables customers to visualize complex data. Businesses and governments in more than 60 countries rely on Intergraph's industry-specific software to organize vast amounts of data to make processes and infrastructure better, safer, and smarter. The company's software and services empower customers to build and operate more efficient plants and ships, create intelligent maps, and protect critical infrastructure and millions of people around the world.

Intergraph operates through two divisions: Process, Power & Marine (PP&M) and Security, Government & Infrastructure (SG&I). Intergraph PP&M provides enterprise engineering software for the design, construction, operation, and data management of plants, ships, and

offshore facilities. Intergraph SG&I provides geospatially powered solutions, including ERDAS technologies, to the public safety and security, defense and intelligence, government, transportation, photogrammetry, and utilities and communications industries. Intergraph Government Solutions (IGS) is a wholly owned subsidiary of Intergraph Corporation for the SG&I U.S. federal business.

Intergraph is part of Hexagon (Nordic exchange: HEXA B; [www.hexagon.com](http://www.hexagon.com)), a leading global provider of design, measurement, and visualization technologies that enable customers to design, measure, and position objects, and process and present data.

For more information, visit [www.intergraph.com](http://www.intergraph.com).

