CASE STUDY

LNG joint venture utilizes Octave's design solutions for FEED

Key facts:

Project location:
British Columbia

Operator JV:
Lead operator (50%) and three other global energy companies

Octave products used:
Forte 3D *(Smart 3D)*, Facets Electrical *(Smart Electrical)*, Facets Instrumentation *(Smart Instrumentation)*, Facets P&ID *(Smart P&ID)*, Forte Review *(Smart Review)*

Delivery platform:
FEED via Octave Cloud

Project summary

This project consists of a global energy consortium joined together to design, build and operate a liquefied natural gas (LNG) export terminal in British Columbia. The goal of this project is to export some of Canada's excess natural gas to Asian markets, using a product recognized as both affordable and cleaner than other hydrocarbons - while also being safe to store and transport. This project utilized a cloud environment for FEED. Upon full build-out, the facility will be made up of a variety of buildings and equipment used to process and store LNG. It will also support infrastructure, including power supply and waste collection and treatment facilities.

Benefits of a cloud approach

This project is the Lead Operator's first experience with a full-cloud approach. The goal to improve business processes, from design and handover to operations.

Octave's hosted environment enabled these processes with Octave Cloud, facilitating real-time information sharing with partners and contractors, regardless of location.

- The Lead Operator included its product catalogue in its integrated engineering environment and connected it to the other planning tools, thus sharing data for up to **60%** of the equipment coming from suppliers
- Octave Cloud supports the Lead Operator's "copy and paste" approach, i.e. the reuse of information from planned plants and partial projects
- Experts in the Lead Operating company believe that by applying a data-centric approach as early as the FEED phase, and by avoiding rework in later phases, savings of **1.5%** will be achieved

Octave Cloud for operations

Octave Cloud can help operators to maintain quality, consistency and the high-value of data-centric systems for both large and small projects. This environment can transition from project to operations faster and much more effectively by providing:

- A seamless handover from FEED to detail design
- Early access to common project plans, design data and equipment data
- More efficient procurement and economies of scale
- A seamless handover to commissioning, startup and handover

About Octave

Octave is a leader in enterprise software, turning data into decisive action and intelligence into your edge. Our software solves for and simplifies complexity, from the design and build to operations and protection of people, property and assets – for any scope, at any scale. For decades, we've partnered with customers to sharpen performance, elevate efficiency and amplify results. From factory floors to entire cities, our solutions are tuned to scale up what's possible from day one onward.

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