

CASE STUDIES · CREDENTIALS

OIL & GAS

Power Plant · Transmission and Distribution · Oil & Gas · Water Treatment · Special Purpose Machines

**ENGINEERING
DESIGN**

Liquid Natural Gas Facility

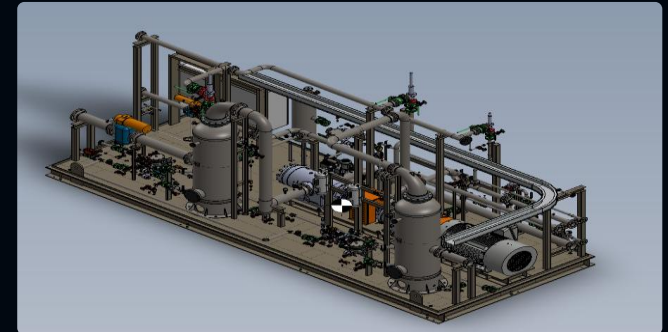
Detail engineering for gas compressor stations, pump & tank manifolds and modular skid packages - USA, Client : Confidential

SCOPE

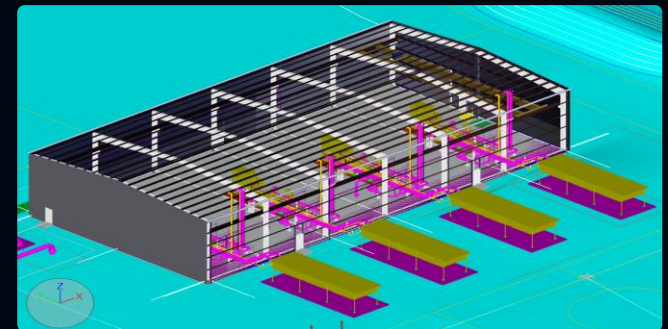
Detail Engineering Services for gas compressor stations, pump & tank manifolds, and modular skid packages — LNG Facility

CIVIL & STRUCTURAL

- i. P&ID development, 3D modelling, and piping spool & frame drawings for gas compressor stations and pump skids
- ii. Process piping stress analysis and static equipment calculations for API tanks and pressure vessels
- iii. Piping and steel-frame BOM, procurement support, and vendor document review
30/60/90% IFP & IFC package delivery



Gas compressor / process skid — 3D model



Liquid Natural Gas Facility

Detail engineering for gas compressor stations, pump & tank manifolds and modular skid packages - USA, Client: Confidential

WHAT WE DID DIFFERENTLY

CHALLENGES

- Cryogenic pipe routing at low operating temperatures introduced material selection and stress analysis complexity
- Strict Regulatory approvals demanded thorough, submission-ready calculations and drawings across all packages

SOLUTIONS

- Adopted a modular skid concept, pre-building and verifying cryogenic pipe routing off-site to shorten the on-site construction window
- Applied API and ASME code provisions efficiently — achieving code-compliant design without overdesign

Let's engineer your next project together.

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BARAK AND BRAZOS ENGINEERING PVT LTD

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Multidisciplinary Detail Design · EPC & OEM Support

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