



GAS PROCESSING

AT THE LEADING EDGE OF PROCESS TECHNOLOGY

World class engineering
services in design, delivery,
maintenance and improvement.

**ENGINEERING TOMORROW...
TODAY**

www.costain.com

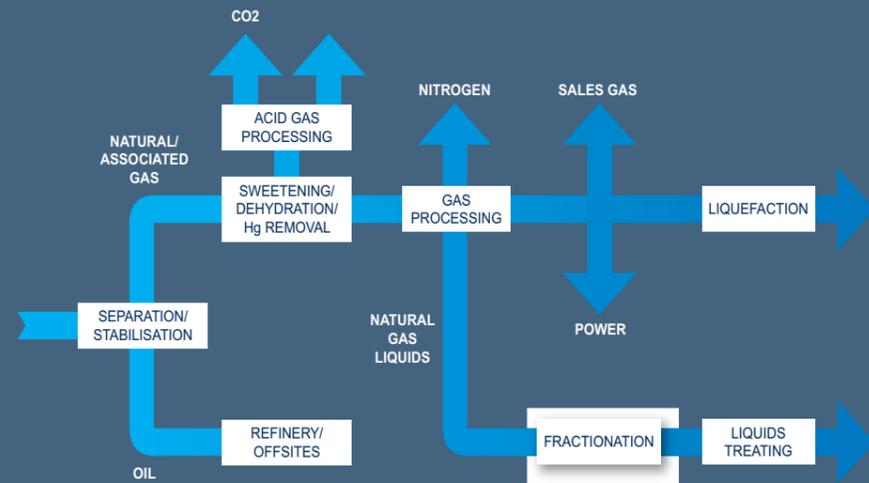
GAS PROCESSING SOLUTIONS



Costain is an international leader in the design and supply of gas processing plants with engineering capability across all phases of the project lifecycle.

Our focus on all aspects of gas processing is demonstrated by an extensive record of successful projects that exceed our customers' requirements.

OUR EXPERIENCE AND KNOWLEDGE REACHES ACROSS THE WHOLE GAS CHAIN.



OVER 500 COSTAIN GAS PROCESSING PLANTS DELIVERED GLOBALLY

INNOVATIVE DESIGN USING PATENTED TECHNOLOGIES

ENGINEERING AND DESIGN PROJECT DELIVERY AND ASSET MANAGEMENT

GAS PROCESSING TERMINALS

Projects undertaken on nationally strategic assets, including the majority of the UK's gas receiving terminals.

GAS COMPRESSION

Experience in delivering both greenfield and brownfield projects in live environments, including compressor selection, configuration.

SHALE GAS

Solutions for all gas processing surface facilities associated with shale gas well sites.

NITROGEN REJECTION

Extensive portfolio of design and supply of cryogenic nitrogen rejection plants, including the world's biggest facility.

GAS STORAGE

Delivering optimum solutions for underground gas storage and related surface facilities.

CARBON CAPTURE

Expertise in a range of carbon capture technologies, particularly low temperature separation.

NGL EXTRACTION

Global experience ranging from hydrocarbon dewpoint control to very high propane recovery and deep ethane extraction.

NATURAL GAS LIQUEFACTION

Design and consultancy to give improved performance, simplicity of operation, increased safety and low overall project cost.

ASSET OPTIMISATION

Extending the life of ageing infrastructure within a commercial and fully compliant environment.

OUR CAPABILITY

Our engineering capability enables us to deliver value and innovation across all phases of the project lifecycle.

SELECT

Early involvement in projects provides you with the optimal solution and can significantly reduce expenditure across the lifetime of the plant. Our team of front end specialists works with you to develop your project implementation strategy.

DELIVER

From concept studies, to FEED, to detail design and EPC, our capability is comprehensive, and includes considerations as diverse as:

- ✓ health and safety optimisation, environmental considerations
- ✓ process development, machinery configuration, energy efficiency, plant reliability and availability
- ✓ modularisation, construction logistics.

IMPROVE

We have extensive experience of helping our customers to identify and select appropriate solutions to upgrade their plants in line with current standards and requirements. Safety and environmental considerations are always paramount, as well as:

- ✓ life cycle cost reduction
- ✓ robust plant performance and reliability
- ✓ minimal on-site construction.

WORLD CLASS TECHNOLOGY EXPERTISE

Our team of front end specialists, supported by our core engineering disciplines and strategic supply chain partners, ensure we are at the leading edge of process technology and innovation.

Particular areas of expertise include:

- ✓ **N₂ Rejection**
- ✓ **NGL Extraction**
- ✓ **CO₂ Recovery**
- ✓ **LNG**

Our knowledge and experience in these areas are supported by a suite of patents. We continually advance our technologies and increase our portfolio of intellectual property to ensure our process technology is efficient, reliable, and safe, with minimal environmental impact.



WHY COSTAIN?

We can draw on our knowledge and experience to meet your needs, whatever challenges you face.

Our multi-disciplinary team will tailor our solution to meet your exact requirements, minimising capital and operating costs to increase return on investment.

Our customers return to us time and again, trusting us to work with them to achieve outstanding results.



Advisory & Concept Development



Specialist Design



Programme Management



Complex Project Delivery



Technology Integration



Asset Optimisation & Support



Photo: Onshore Gas Receiving and Processing Facility Terminal Upgrade at Centrica Storage Easington. 2011–2013

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