

GAS PROCESSING TERMINALS

Gas receiving and processing terminals are key to maximising the benefits of our national gas reserves. With a long history of experience across a wide range of gas processing projects, including major UK gas terminals, Costain is able to offer expertise and world class project a for greenfield and brownfield facilities.

As terminal operators seek to maximise value from existing assets, an increase in brownfield projects is expected. Calling on deep process and engineering expertise, Costain has delivered solutions on gas terminals across the UK. Our ability to execute projects safely and efficiently in live operating environments offers minimum disruption to terminal operations.



RECENT PROJECTS INCLUDE MAJOR GAS RECEIVING FACILITIES IN THE UK

CUSTOM DESIGNS PROVIDE OPTIMUM SOLUTIONS FOR GREENFIELD AND BROWNFIELD SITES

FULL ENGINEERING CAPABILITY ACROSS ALL PHASES OF THE PROJECT LIFECYCLE

COSTAIN'S CAPABILITY

We provide comprehensive design and engineering services for acid gas removal, compression, gas dehydration and hydrocarbon dew point control plants, as well as cryogenic processing including liquefaction, natural gas liquids (NGL) extraction and nitrogen removal. We also offer a variety of ground installations to include slug catching, inhibitor injection and regeneration, heating, pressure letdown and fiscal metering.

Costain's solutions provide high energy efficiency, low compression power, high rate of return and minimal environmental impact, with a particular focus on reliability, availability and maintainability. Our expertise covers the delivery of both greenfield and brownfield projects, including expansions and revamps in challenging live environments.

PROPRIETARY TECHNOLOGY

We have the skills, experience and capability to deliver value and innovation across all phases of the project lifecycle. Early involvement in projects allows us to maximise value through developing optimum solutions which meet and exceed our customers' needs. This was demonstrated in a recent brownfield project, in which Costain developed a novel, value-engineered solution in the concept stage which offered a 60% capital cost reduction compared to previous proposed solutions, and continued into EPC.

The ability to provide this full range of services is increasingly desired on projects, and Costain can offer the expertise to carry out front end engineering and design work as well as efficient EPC execution.

We have an excellent record of leadership in safety, health and environmental performance, providing customers with process designs and facilities with the highest standards of safety and quality.

RELEVANT EXPERIENCE



Costain's experience extends to projects undertaken on major strategic national assets, including:

	BROWNFIELD /REVAMP	SELECT /APPRAISE	FEED	EPC(M)	LIVE PLANT WORKING	COMAH
Bacton	✓	☐	☐	✓	✓	✓
Barrow	✓	✓	✓	✓	✓	✓
Dimlington	✓	✓	✓	✓	✓	✓
Easington	✓	✓	✓	✓	✓	✓
St. Fergus	✓	✓	✓	✓	✓	✓
Teesside	✓	✓	✓	✓	✓	✓

Centrica Storage

Gas Treatment Plant Expansion



- Design and build of a new gas treatment plant on the Easington terminal
- Largest construction project undertaken on the terminal since the gas plant was originally built
- Capacity up to 120 MMSCFD of natural gas
- Reuse of redundant plant required tie-ins on a live COMAH Tier 1 facility

- ✓ DESIGN
- ✓ DETAILED ENGINEERING
- ✓ PROCUREMENT
- ✓ CONSTRUCTION MANAGEMENT
- ✓ COMMISSIONING SERVICES

Centrica / Hydrocarbons Resources Ltd

Terminals Optimisation



- Optimisation of Barrow terminals to support field life extension and provide compliance with environmental requirements
- Capacity up to 140 MMSCFD of natural gas
- Minimised onsite work through modularisation, realising cost, schedule and safety benefits
- Project executed within an operational COMAH Tier 1 site

- ✓ FEED
- ✓ DETAILED ENGINEERING
- ✓ PROJECT MANAGEMENT
- ✓ CONSTRUCTION MANAGEMENT

Shell EP

Gas Reception Facilities



- Conditioning offshore gas to supply 10% of UK gas requirements
- Delivery of Shearwater Elgin Area Line (SEAL) gas reception and processing facilities at Bacton Terminal (in jv with Interserve)
 - Capacity 1100 MMSCFD of natural gas
 - Facilities include sulphur removal
 - Carried out construction in a live gas plant

- ✓ DESIGN
- ✓ DETAILED ENGINEERING
- ✓ PROCUREMENT
- ✓ PROJECT MANAGEMENT
- ✓ CONSTRUCTION
- ✓ COMMISSIONING SERVICES