



COSTAIN



ENGINEERING TOMORROW...TODAY

Meeting national needs through
the delivery of integrated consulting,
project delivery and operational solutions

MEETING CUSTOMERS' NEEDS

The secret to building long-lasting relationships with customers lies in the rare ability to develop an insightful and trusted relationship, which enables a better understanding of their needs. This is why our experts often work from within our customers' organisations, constantly asking challenging questions and seeking better, more innovative solutions to their complex challenges.

OUR APPROACH

Operate safely, efficiently and responsibly to ensure we operate in an environment free from harm

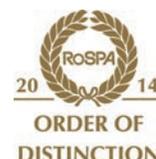
Continue to enhance customer insight to better understand our customers' needs and deliver innovative solutions

Deliver integrated consulting, project delivery and operational solutions across the full life-cycle of an asset

Deploy the 'best in class' team by attracting, retaining and developing the best people in the industry

Create and deliver innovative sustainable solutions by continuing to invest in research, innovation and emerging technologies

Work in collaboration with our customers and other key stakeholders to deliver our promises and support the development of broader services and technology



COSTAIN – YOUR TRUSTED DELIVERY PARTNER

Costain is one of the UK's leading engineering solutions providers, with a unique focus on major customers who are meeting national needs in the infrastructure, energy and water markets. We provide our customers with integrated consulting, project delivery and operational solutions to their complex business challenges.

Our customers are, and always will be, at the centre of our business decisions. It is our exceptional customer focus and deep understanding of their needs which builds strategic long-term relationships. Our approach, coupled with the ability to collaborate across all levels, drives innovative engineering and technology led solutions across the full life-cycle of an asset.

We provide value for our customers by drawing on experience from across Costain to meet complex technical and operational challenges. For example, to deliver programmes totalling more than £3bn in Asset Management Period 6 [AMP6] for Thames Water, Severn Trent and Southern Water, we brought together expertise from our Oil & Gas, Rail and Highways sectors.

OUR SECTOR FOCUS



RAIL



HIGHWAYS



POWER



OIL AND GAS



WATER



NUCLEAR PROCESS

WE DELIVER INTEGRATED SOLUTIONS ACROSS THE FULL ASSET LIFE-CYCLE.

Advisory
and concept
development

Specialist
design

Programme
management

Complex
project
delivery

Technology
integration

Asset
optimisation
and support



Government Pipeline and Storage System

Costain was awarded a three year asset support contract by the Oil and Pipeline Agency for the operation and maintenance of the Government Pipeline and Storage System, a strategic national asset which carries around 40 percent of Britain's aviation fuel around the country, supplying sites such as Heathrow and Gatwick airports, as well as British and U.S military airbases in England and Scotland. Our team of experts quickly formed a strong partnering relationship with the OPA and established joint working groups to review existing working practices and a schedule of programmed works to ensure that this longstanding and vital UK asset is transformed from a military necessity of the war years into a commercial proposition excelling in efficiency, safety and reliability.

Key facts

Customer: Oil and Pipeline Agency
Sector: Oil & Gas
Completion: 2017
Services: Programme management and asset optimisation and support



Overhead Tower Line Framework

Costain is updating the 132kV electricity distribution network to help ensure the lights are kept on in the East of England. The framework involves design, programme management, refurbishment and construction of 132kV overhead lines. We quickly mobilised and collaborated with other parties to safely construct two new towers and transfer four overhead lines to the new Rayleigh substation in Essex. In 2014, Costain completed fittings refurbishment and 12km of conductor replacement on two 132kV tower lines at Rumburgh and Fulbourn. A complex crossing of the A14 trunk road was completed using our approved catenary system which avoided road closures and costly scaffolding. This innovation saved inconvenience to road users and helped ensure these projects were delivered safely, on time and to budget.

Key facts

Customer: UK Power Networks
Sector: Power
Value: £20m
Completion: 2015
Services: Specialist design and programme management



London North West [South] Electrification

Network Rail appointed a Costain, Alstom and Babcock joint venture [ABC Electrification Ltd] to deliver a major electrification programme, delivering electrification to more than two thousand miles of the UK's rail system which represents the biggest programme of rail electrification in a generation. ABC Electrification will deliver the design, supply, system testing and commissioning, entry into service and transfer of maintenance responsibility of all overhead line works necessary to provide a 25kV electrification system across complex schemes in the southern section of the London North Western route. The works will lead to more frequent services, longer, greener trains and an improvement in the commuting experience for passengers.

Key facts

Customer: Network Rail
Sector: Rail
Value: £435m
Completion: 2021
Services: Advisory and concept development and complex project delivery

INTEGRATED CONSULTING, PROJECT DELIVERY AND OPERATIONAL SOLUTIONS



eight₂O AMP6 Capital Programme

Costain, part of Thames Water's industry-leading alliance eight₂O, will help deliver billions of pounds of essential improvements to its Thames aging network over the AMP6 period. To date, Costain has provided key members of the eight₂O management team, including the Chief Operating Officer and has played a key role in the development of programme strategy and approach to standardisation and off-site manufacture. As the programme moves into delivery, Costain together with its partners Veolia and Atkins, will be responsible for delivering half of the overall capital programme. Thames Water is using the alliance model to achieve greater efficiency in the delivery of its business plan, with a greater emphasis on collaborative team-working, innovation, sustainability and an integrated supply community, in a bid to lock in long-term value to the Company and its customers.

Key facts

Customer: Thames Water UK
Sector: Water
Value: £2bn +
Completion: 2020
Services: Advisory and concept development, specialist design, and complex project delivery



Additional Evaporative Capacity

Following a successful Front End Engineering Design solution, Costain was appointed to deliver full engineering, procurement, construction and inactive commissioning of the Evaporator D project, one of the largest nuclear projects in the UK. The housed Evaporator building consists of 15 in-cell modules, over 22km of pipe work bound together by over 10,000 welds, 300 tons of specialist steel and 400 major plant items. Costain brought together delivery experience from its Nuclear Process, Oil & Gas, Rail and Highway sectors to address the technical challenges required to deliver the project. Costain employed a crucial innovative solution, whereby each module was largely constructed off-site and transported by sea - this approach was the first use of modularisation for a process plant on the Sellafield site.

Key facts

Customer: Sellafield
Sector: Nuclear Process
Completion: 2016
Services: Advisory and concept development, and complex project delivery



Electronic Service Delivery for Abnormal Loads [ESDAL]

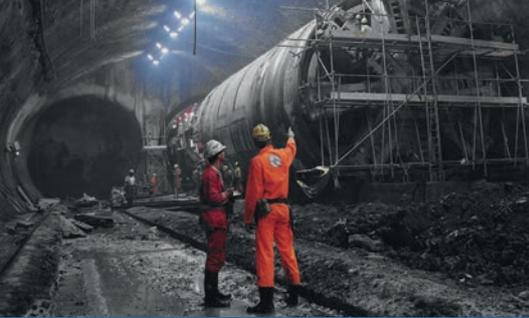
The Highways Agency appointed Costain to deliver a technology solution that would improve the service for road-users moving Abnormal Indivisible Loads (AIL) around UK highways. As part of the technology solution, Costain provide a hosted software application with access provided via web portals to the Highways Agency, hauliers, police, and bridge and highways authority users. The solution includes the provision of a help desk to support system users and to manage and maintain the solution. The collaboration provided by the web portals boosts efficiency and eliminates wasted time and effort on the part of hauliers and the authorities. It also enables the Highways Agency's Abnormal Loads Team to collaborate with stakeholders to plan routes and authorise Special Orders for the largest movements.

Key facts

Customer: Highways Agency
Sector: Highways
Completion: 2016
Services: Technology integration

ENGINEERING TOMORROW...TODAY

COSTAIN



Channel Tunnel 1993



Tsing Ma Suspension Bridge 1997



Peacehaven Wastewater Treatment Works 2012



Thames Barrier 1982



St Pancras 2006



London Bridge Station 2018



M1 J10-13 Managed Motorway 2012



Trans Iranian Railway 1938



LNW Electrification 2021

150 YEARS OF ENGINEERING EXCELLENCE

Costain is fulfilling a lead role in developing Next-Generation Carbon Capture Technology capable of reducing CO₂ emissions by 95%.

Costain was responsible for the engineering, procurement and construction of Shell's £100 million third fractionation module at Mossmorran in Fife.

Costain celebrated eight years without a reportable lost time accident whilst delivering Welsh Water's Asset Management Period (AMP) 4 and 5 Capital Programmes.

The ABC joint venture, of which Costain is part, has made a significant breakthrough into a new sector of the rail industry, with the winning of several track electrification contracts.

Costain built and commissioned the first of a kind nuclear processing facility at Magnox's Bradwell site for the dissolution of historic nuclear waste.

In collaboration with Business in the Community, Costain launched the first 'Big Infrastructure Conversation', which brought together some of the industry's top names to tackle the problem of youth unemployment.

Costain won a national award for Building Information Management (BIM), three years before it becomes a requirement on all publicly-funded Government projects.

Costain has secured financial support from the Department of Environment and Climate Change through a £20m programme for finding novel solutions to reduce the cost of Carbon Capture and Storage.



Costain Group PLC
Costain House
Vanwall Business Park
Maidenhead
Berkshire, SL6 4UB
+44 (0) 1628 842444

 www.costain.com
 Costain Group
 Costain Group
 @CostainGroup