



ACTAVO | INDUSTRIAL SOLUTIONS CASE STUDIES

A leading supplier of multi-discipline industrial solutions

INEOS CHEMICALS & PETROINEOS - GRANGEMOUTH



5 Year Term Maintenance Contract



5 YEAR TERM MAINTENANCE CONTRACT

- Actavo held a relationship since 2012 at the Ineos Chemicals and Petroineos Refinery sites in Grangemouth.
- Ineos Chemicals is wholly owned by Ineos, whilst Petroineos is a 50/50 JV between Ineos and PetroChina.
- The contracts delivered combined annual revenues of £22M.
- The contracts were for the provision of Scaffolding , Painting, Insulation, Asbestos removal works in support of Ineos & Petroineos Maintenance, Project and Turnaround Activities.
- Peak manning for the site was 350 employees.
- This contract resulted in Actavo being the largest provider of Industrial services for the Central Scottish Region.

Completion Date	28 th February 2018
Programme	5 years
Services Provided	Access, Insulation, Protective Coatings, Rope Access, Asbestos Removal, Passive Fire Protection
Project Value	£110M



MAGNOX - BRADWELL SITE

Nuclear Decommissioning Project



CLADDING OF REACTOR BUILDINGS

- The project was to transform the appearance of the 2 ageing Reactors that were constructed in the 1950s as the site enters into its' Nuclear Decommissioning care and maintenance period.
- The two main reactor buildings were shrouded in aluminium cladding with more than 28,000 individual fittings used.
- Actavo were engaged to provide all scaffolding access and support to the Cladding Contractor.
- Almost 1,000 te of Layher system scaffolding was deployed on the project.
- Peak manning for the project was 130 employees.
- The cladding will stay in place until the end of the 80 year care and maintenance period which is likely to begin in 2019 when waste processing is completed.

Completion Date	Feb 2017
Programme	18 months
Project Value	£14M (£56.4m combined)



Large scale Asbestos Decontamination Project



MAGNOX – BRADWELL SITE



FULL ASBESTOS REMOVAL & ENVIRONMENTAL CLEAN

- The project was to ensure full end state clearance in Void cells 1 & 2 beneath the Reactors at Bradwell Power Station, as the site entered into its' Care & Maintenance phase.
- The Project was a complex one. Actavo designed a strategy for Magnox that would allow the Project to be completed safely, and on time.
- The project required concrete sampling to ensure all traces of asbestos were removed.
- The void cells were 60 feet below ground level, with logistical challenges for movement of equipment and waste.
- Peak manning on the project reached 60 asbestos removers, working around the clock to meet the scheduled delivery dates.

Completion Date	July 2017
Programme	1 year
Project Value	£3.5M (£56.4m combined)



MAGNOX -OLDBURY SITE

Glazing Project



REPAIR & REPLACE DAMAGED GLAZING PANELS ON REACTORS 1 & 2

- Actavo have held a relationship with Magnox since 2003 and are currently engaged under the Access and Insulation Framework to provide support services at 4 of the 10 Magnox Nuclear facilities:
 - Sizewell A
 - Oldbury
 - Berkeley
 - Bradwell
- Actavo were appointed to undertake the glazing replacement works at Oldbury Power Station; an opportunity to demonstrate our diverse service offerings.
- The works included the removal and replacement of vertical and inclined glazing to the turbine hall and the reactor buildings along with the removal and replacement of the roof lights to the turbine hall.
- Access was via fixed scaffold and temporary suspended cradles.
- 4000 glazed panels in total; 663 glazed panels were replaced and 3400 safety-mesh panels were installed.

Completion Date	2010
Programme	12 months
Project Value	£1.5M (£56.4m combined)



MOSSMORRAN SITE & BRAEFOOT BAY



ExxonMobil Fife Ethylene Plant



- Actavo are the preferred Term Maintenance Contractor engaged to support asset maintenance for ExxonMobil Chemical Limited at Mossmorran Fife Ethylene Plant and at Braefoot Bay Marine Terminal.
- The Mossmorran facility is the main processing plant and produces 800Kt of Ethylene product per year.
- The Braefoot Bay facility consists of product storage, tankage and process facilities with a marine tanker loading jetty located in the Firth of Forth Estuary.
- Actavo provide Mechanical services for Maintenance and Minor Projects which include – Scaffolding , Insulation , Painting , Pipe Fabrication and Welding , Rope Access , Corrosion under insulation programme , Shot blasting and Thermal Spray Aluminium Coatings.
- Actavo are also the preferred contractor for the supply of Ground Maintenance , Minor Civils and a Winterization Programme. The winterization programme is integral to the safe operation of the plant during periods of snow and ice as the routes to operational areas require access each day of the year.
- As part of our Ground Services contract there is a requirement for site to be cognizant of the Wildlife and Countryside Act 1981 to ensure protection of wild birds / nests , the protection of wild animals and or plants and the control of invasive species either animal or plant.

Completion Date

April 2020

Project Value

£3 million per annum



VIVERGO

Bioethanol Plant Salt End Hull



An AB Sugar company



The Vivergo Bioethanol Plant is based on the Salt End Chemical Park in Hull. It was constructed in 2012. It converts 1.1 million tons of wheat into 420 million litres of ethanol a year and produces 500,000te of animal feed.

Actavo has been involved with Vivergo's Bioethanol Plant all throughout its current life cycle, from its initial inception and construction, through to commissioning in 2012. We were then awarded the Access, Scaffolding and Insulation Maintenance Contract and we have retained this contract through to present day, recently securing a 2 year extension that will take us through to 2020.

We have safely and successfully delivered in excess of 500,000 man hours, with ZERO LTA's and RIDDOR incidents, ensuring that our Company Goal of Work Safe – Home Safe is achieved.

We are integrated within Vivergo's Plant Maintenance Team, ensuring through forward planning and effective cost control, coupled with absolute reliability that the Bioethanol Plant is maintained at the most efficient and cost effective level available.

Completion Date	Ongoing – commenced 2010
Programme	Ongoing
Project Value	£27.2m (combined)



EPUKI

South Humber Bank Power Station



Completion Date	Ongoing
Programme	Term and Maintenance
Project Value	c. £2m per annum inc TAs and projects

ACCESS, SCAFFOLDING & INSULATION

South Humber Bank Power Station is a 1,365 MW gas-fired power station on South Marsh Road at Stallinborough in North East Lincolnshire north of Healing and the A180 near the South Marsh Road Industrial Estate.

Actavo was awarded the Access, Scaffolding and Insulation Contract in 2012 and have since successfully delivered over 280,000 man hours, all achieved with ZERO LTA's and RIDDOR incidents ensuring our Company Goal of Work Safe – Home Safe.

Our scope has included Term Maintenance, Full and Single Unit TA's, Projects and Minor Works.

Working very closely with our client we are integral to the forward planning and effective cost control to ensure that the SHBPS asset is maintained at the most efficient and cost effective regime available. We have through flexibility coupled with absolute reliability ensured that our client has complete confidence that its asset is in the safest of hands.



BRITISH SUGAR

Cantley Sugar Factory East Anglia



The British Sugar Cantley factory was built in 1912. Around 9,000 tonnes of beet is delivered to Cantley per day, which is converted into 1,250 tonnes of crystal sugar through a process of washing, slicing, diffusing, purification, evaporation and separation

Actavo has been involved with British Sugar's Cantley site since 1992 delivering a full range of services through Scaffolding Insulation and Painting. Our work has included Maintenance, Shutdown's and Project's

We have safely and successfully delivered in excess of 750,000 man hours, with one minor injury across the 26 years and achieving ZERO RIDDOR incidents, ensuring that our Company Goal of Work Safe – Home Safe is maintained at the highest possible standard.

We are integrated within British Sugar's Plant Maintenance Team, ensuring through forward planning and effective cost control, coupled with absolute reliability that the Sugar Plant is maintained at the most efficient and cost effective level available.

Completion Date	Ongoing
Programme	Ongoing
Project Value	c. £1m per annum inc projects



PSE KINSALE ENERGY LIMITED

Alpha and Beta Platforms – Offshore, Kinsale



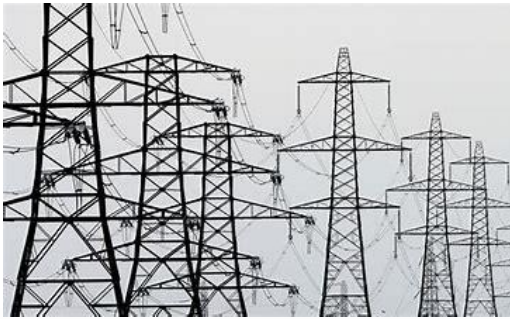
- Actavo has been the preferred Term Maintenance Contractor since 2011 to provide specialist access solutions to their offshore facilities Alpha and Bravo; this includes scaffolding and rope access works for NDT inspection.
- PSE Kinsale Energy Limited has been operating gas fields in the Celtic Sea, off the County Cork coast, since 1978 – the fields were Ireland’s only indigenous source of natural gas until 2015
- The gas found in the Kinsale Head area is exceptionally pure, consisting mainly of methane, and only requires removal of associated water to ensure it meets the required quality levels.
- This conditioning is carried out offshore and the gas is then compressed to raise its pressure for transport to the Kinsale Energy Inch Terminal near Midleton, Co. Cork. From the Inch Terminal, the gas is then metered and transferred to Gas Networks Ireland (GNI) for distribution nationwide.
- Kinsale Gas enabled Ireland to be self sufficient in gas supply until 1995, and was instrumental in the development of the national natural gas network in Ireland.

Completion Date	2021/2022
Programme	Term maintenance
Project Value	€1.1 million per annum



TRANSMISSION & DISTRIBUTION NETWORK : MAINTENANCE

UK Pylon's & Sub Station Network



nationalgrid



Completion Date	Ongoing
Programme	Ongoing
Project Value	c. £7m-£15m PA (to date: £200m - £450m)

With over 30 years experience in transmission tower painting and maintenance, Actavo PDC is the market leader and has built a highly regarded reputation.

In such a demanding and high risk environment we have successfully delivered over 2 Million man hours across a 10 year period achieving our target of ZERO LTA's and RIDDOR reportable incidents.

Renowned for attention to detail and skills Actavo PDC has extensive experience in the maintenance and refurbishment of;

- Pylons
- Sub Stations
- Telecommunication Masts
- Changing of Anti Climb Devices – ACD's
- Standard and Customised ACD design
- Colour Plate & Signage replacement
- Step Bolt replacement
- Navigation Light replacement

We also offer additional services in conductor work and condition inspection and assessment.

We provide a broad range of training activities to ensure all members of the team are competent to operate in this most strictly regulated sector

