



INEOS

## Case study INEOS

### About

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Location: Seal Sands, Teeside

Project Value: £45,000

Site Size: 800,000m<sup>2</sup>

Duration: 1 month

INEOS is a world leading manufacturer of specialist chemicals and oil products. Their production network currently spans 60 manufacturing facilities in 13 countries all around the world.

### Background

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In 2008 the company acquired BASF's manufacturing facility located at Seal Sands in North East England. Sudlows had previously managed connectivity projects with BASF for three years prior to the INEOS acquisition. This perfectly placed our consultants and engineers to continue working at the facility having already cultivated an in-depth knowledge of the challenging manufacturing environment.

### The brief

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New regeneration plans proposed for the commercial production site meant INEOS was keen to install a new high speed fibre network to link a number of remote buildings across the expansive Seal Sands plant. This new high bandwidth network needed to be flexible enough to accommodate future expansion as well as reducing infrastructure costs for the global leader.



## The Sudlows solution

Our technical experts and consultants engaged with INEOS project managers to develop a unique understanding of their new infrastructure upgrade.

It was clear from the start that a 10GB Blown Fibre network was the best option. Blown Fibre is a versatile method of installing fibre optic cables, which directs the flow of compressed air towards targeted end user destinations.

Our expert engineers designed and installed a Blown Fibre ring that fully integrated with the IT infrastructure upgrade. The ring surrounded the entire site circling an expansive area. This structure acts as a solid platform for the future; once in place our client can add, change, relocate or remove connections as the new buildings take shape.

Due to the adaptability of Blown Fibre, Sudlows could install a combination of both LED based Multimode fibre for lower bandwidth, short distance communications, and Singlemode fibres to instantly transmit high bandwidth data.

As a unified connecting base, Blown Fibre allows INEOS to install, at a later date, CCTV, Access Control and Energy Management components to be linked onto one standardised network to completely unify all business activities.

As a unified network arrangement, this provides the kind of future proofing and advanced technology that INEOS desired that also acts as the most financially attractive option.



Darren Stephens, Design and Estimation Manager at Sudlows reflected on the Sudlows solution:

*"The Seal Sands site in the North East is a classic example of a site of environmental extremities. As a direct result of our on-site inspection it was obvious to us that robust Blown Fibre tubing was the best recommendation to make. It is resilient to environmental physicalities from burst pipes and chemical spills to adverse weather conditions. It is a fantastic example of how each of our project managers assess each situation on an individual basis. This network is no longer vulnerable to damage".*

Mazahr Allahdad, Project Manager at INEOS said:

*"Thanks to Sudlows the new sophisticated specification provides a wide and resilient 7 way Blown Fibre tube to all desired locations connecting the main data centre to disaster recovery and a total of nine remote communication rooms spanning across the extensive area.*

*"I can honestly say Sudlows demonstrated the perfect combination of expertise and adaptable approach to the design and build of a fibre network exactly to our high standards.*

*"The Blown Fibre will support increased data speeds as technology rapidly advances over the years and particular credit goes to their initiative; the optical fibre ring is ingenious, not only technically, but it helped us meet our budget constraints right from the start. The IT estates now manage over 800,000m<sup>2</sup> acres of network across the site."*

## The conclusion

Having the most modern, dedicated optical fibre network on the market means INEOS now has the highest levels of control, security, reliability and agility to seize all growth opportunities as they emerge.

*"Sudlows demonstrated the perfect combination of expertise and adaptable approach to the design and build of a fibre network exactly to our high standards".*