

# Science & Technology

## Sector Project Profiles



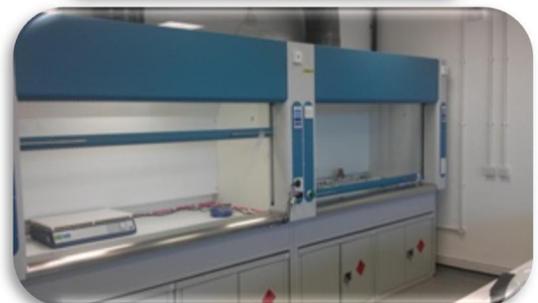
### Northumbrian Water, Howdon Laboratory

Location	Newcastle, UK
Client	Northumbria Water Ltd
Value	£2.5 million
Sector	Science & Technology

Northumbrian Waters' existing Scientific Services Laboratory underwent a significant 'Spend to Save' refurbishment which consolidated three of their existing laboratories into the existing facility in Howdon. Kinetic were appointed through Summers Inman to develop the mechanical and electrical design on behalf of Northumbrian Water.

The project was incredibly complex due to the requirement to maintain the laboratories commercial business in operation throughout the works, despite the extent of the refurbishment. The building services work included the replacement of the existing heating, ventilation, comfort cooling and lighting installations, and significant works to existing fume cupboard extract systems and laboratory gas distribution systems. The project itself was delivered in a considerate manner and with great appreciation from the client.

The installation of an intelligent Dali lighting system, high efficiency VRF heating and cooling systems, variable air volume ventilation systems are of particular note.



## Davey Process Technology Centre \*

Location	Stockton, UK
Client	Davey Process Technology
Value	£7 million
Sector	Science & Technology



This new state of the art complex comprised of three separate buildings, a three storey office block, research and development building (Pilot Plant) and a hazardous gas and chemicals store. The main challenges of the project were associated with the challenge of designing a pilot plant building flexible enough to cater for research programmes and development schemes yet to be defined by the client.

## Yukos Technology Centre \*

Location	Moscow, Russia
Client	Yukos
Value	£10 million
Sector	Science & Technology



This project was the second laboratory scheme undertaken by this professional team for Davey process Technology and its parent company Yukos Oil and gas. The intricacies of designing Mechanical and Electrical Services for the 114,000sqft 6 storey complex, which housed 72 laboratories, was also coupled with designing for ambient temperatures of +30 °C in Summer and -30 °C in Winter.

The project was procured under the FIDIC design and build route. The team consisted of Russian clients, Turkish contractors, worldwide equipment supply chain and of course British designers, all adding to a multi-cultural challenge.

## Hanningfield Laboratories

Location	Essex, UK
Client	Essex & Suffolk Water
Value	£0.6 million
Sector	Science & Technology

The Hanningfield laboratory refurbishment comprised of general laboratory remodelling and the replacement of existing redundant and inefficient building service systems. The facility provides a commercial service to external clients and was required to be in full operation during the works, and required careful phasing of works to minimise end user disruption and allow commercial activities to continue unaffected.

Kinetic were appointed by Essex and Suffolk Water to produce the full M&E detailed design for the refurbishment of the existing Laboratory facility.



## Biomedical Laboratory Refurbishment

Location	Newcastle, UK
Client	Turner & Townsend
Value	£0.4 million
Sector	Science & Technology

Through our ongoing relationship with Turner & Townsend we were appointed as part of their project manager led design team to deliver this refurbishment of an existing Newcastle University Biomedical Lab facility.

Due to the complex nature of the phasing of the scheme it was necessary to undertake detailed surveys of the existing M&E services



to ensure areas of labs that were to remain functional could be supplied with temporary services connections.

Our proactive approach & ability to attend site at short notice has ensured that the scheme is running successfully with a high level of client satisfaction.

\*The Directors of Kinetic Engineers have had personal responsibility for these projects.