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Shell Chemicals UK



▶ CLIENT OVERVIEW

Shell Chemicals companies play a key part in helping to shape this modern world by supplying some of the key ingredients that are used to make plastics, coatings, detergents and countless other products that surround us everywhere, every day.

Shell companies are among the world's leaders in the manufacture and marketing of base chemicals (lower olefins and aromatics) and intermediates (like solvents, ethylene oxide, ethylene glycols, higher olefins, linear alcohols, phenol, styrene monomer, propylene oxide and its derivatives, propanediol, and polyethylene terephthalate). For each of these products, Shell Chemicals companies rank among the top three global producers.

▶ CLIENT'S REQUIREMENTS

Shell Chemicals in Stanlow had to replace their existing Cold Softened Water production units, that supplied both the Chemicals Manufacturing Complex and the Oil Refinery.

Shell wished to put the operation and maintenance of the softened water services into the hands of an experienced operator allowing their management to spend its time and energy on its core business.

▶ OUR SOLUTION

VWIO offered a compact containerised filtration and softening system providing Shell with flexibility to meet future site developments and demands.

The contract signed in 2001 featured:

- Containerised streams with adequate on site redundancy to meet production peaks during start-up and abnormal conditions on the complex.
- Compact installation that could be set up alongside the existing plant to process a total of 3,500 m³/day with a treated water quality of less than 2ppm Total Hardness.
- Operation and maintenance of the plant over a minimum 10 year service period.

This solution allows Shell Chemicals management team to reduce its involvement to high level supervision of this non-core function.

Experience of the dramatic changes in raw water quality from the River Dee has resulted in an additional clarification stage being added to the treatment which utilises the Actiflo equipment, a patented process of Veolia Water. This high rate clarifier has stabilised the feed conditions to the Cold Softened Water Plant and added additional security to the service provided to Shell.

“ In VWIO, Shell Chemicals have found a partner capable of undertaking water and wastewater related projects on site. Their competitive pricing enables Shell to accurately predict the operational and maintenance costs of this essential utility that were previously difficult to control. ”

Steve Kelly Production Unit Manager
SHELL CHEMICALS UK



Industrial Outsourcing