

# Case study 619

## Conversion project kept to schedule

With Anglian Water's existing sludge digesters struggling to adapt to a new high-pressure homogenization system, we were tasked with providing a temporary solution which could cope with increased demands.

The Pyewipe plant serves a broad geographical area covering much of Grimsby and Humberside, including several major waste water treatment sites. It processes up to 1000m<sup>3</sup> of sludge every day and 100 tonnes of cake from other locations around the network, but an efficiency issue had meant an alternative dewatering method would need to be implemented. Due to the huge amounts of energy being used, moving to a heat, pasteurisation and hydrolysis process was recommended as a substitute to uneconomical sludge digesters.

However, the fixed pumps on site were unable to process sludge with a greater solid content – potentially halting the proposed changeover. It was at this juncture that Anglian Water contacted Sykes Pumps to help address the situation, with two diesel pumps installed less than 24 hours after the original enquiry. This was just a short-term measure, and a specialist engineer suggested the use of "dry installed" electric submersibles might be more cost-effective going forward.

These remained on hire for several months in total, managing the sludge at the required temperature and solids content throughout the switch. Our ability to put an interim solution in place immediately allowed our client to continue focusing on other fundamental challenges – thus ensuring the entire scheme kept to schedule.



Model SP50  
Motor type (V) 415 (3-phase) 50 Hz  
Motor rating (kW) 5.2  
Max power input (kW) 6.2  
Running current (Amps) 11  
Max solids (mm) 65  
Discharge spigot 4" Bauer (100mm)  
Dimensions (HxW) mm 760 x 410  
Weight (Kg) 52



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