

Anglian reports 22% energy savings on Mapal trial

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Anglian Water says the expected energy efficiencies are being achieved through the deployment of Mapal Green Energy's innovative floating fine bubble aeration technology at its Stanbridgeford wastewater purification site. The reactors at Stanbridgeford currently process more than 10,000m³/day.



The floating modular system can reduce operational down-time by being easier to install and maintain

The new floating fine bubble aeration system replaced an existing coarse air jet system at the Stanbridgeford site, and Anglian Water said it is pleased with the energy savings being achieved.

Matt Pluke, energy manager at Anglian Water, said: "Stanbridgeford is an example of how our established energy partners have worked together with new partners Maple Green Energy to deliver energy-savings, whilst protecting the needs of our customers and the environment. Mapal Green Energy's Floating Fine Bubble Aeration system was chosen because it was more energy efficient than the previously installed technology and, as a floating modular system, it can reduce operational down-time by being easier to install, add to and maintain.

"During the first six months of the pilot, we have seen energy savings averaging 22% attributable to Mapal Green Energy's system. We're pleased with these results which have been achieved, thanks to innovation and collaboration between Anglian Water and the supply chain."

Other features of the system design include the ability to retrofit without draining reactors, making for a quick and easy installation and minimal operational disruption for Anglian Water. With no moving parts in the reactors, the company is also targeting reductions in maintenance costs.

Aerators are automatically adjustable to water depth and, because they float, are always level, delivering an even flow of oxygen within the reactor.

Mapal UK sales manager Andy Carling said: "As well as delivering significant energy savings benefits, one of the aims of the trial was to demonstrate just how robust and simple to operate our floating fine bubble aeration system is. With over six months data now in, the installation has been exceptionally reliable and robust."

Floating fine bubble aeration systems can also be adapted for aggressive and hazardous liquids and are therefore suitable for application across a wide range of industry sectors where secondary wastewater treatment requires a solution based on aeration.

Mapal Green Energy will be exhibiting at IWEX from April 1-3 at the NEC, Birmingham.

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