

turning beer into green energy

Industrial Water UK



▶ what we did

SUEZ through the activity Treatment Solutions Europe, Industrial Water UK (formerly Ondeo Industrial Solutions) has optimised the effluent treatment plant at one of the world's leading beer producers.

Maximum performance has been achieved to reduce natural gas consumption and significantly boost energy generation on site.

▶ how we did it

SUEZ conducted an in-depth review of the site facilities and identified problematic design flaws in the original anaerobic and biogas systems, which were causing large scale waste of potential green energy.

Following the review, we redesigned the biogas system to rectify the original design faults. This has enabled the recovered biogas to be used in a combined heat and power (CHP) plant to cost-effectively generate electricity for the site.

▶ what we achieved

The system now generates 6MW of electricity per day, which is enough to power 350 homes for a whole year. It is producing more energy per day than the effluent treatment plant consumes, which means that the plant is completely self-sufficient, reducing the company's environmental footprint, meeting its EA permit, and saving costs.

Or, as our Contracts Manager puts it...

“ Similarly to many other food & beverage manufacturing facilities, this site wasn't optimising its biogas production, and as a result was losing out on significant energy generation benefits. We improved the effluent treatment plant system substantially, making this the customer's 'go to' brewery site in the Western European region for biogas utilisation best practice. ”

SUEZ Industrial Water UK

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