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## WASTEWATER TREATMENT PLANT OFFERS BIOGAS



Global Water & Energy's (GWE) aerobic and anaerobic digestion plant at Indian Ocean Tuna's seafood processing site in the Seychelles. Credit: GWE

Indian Ocean Tuna Ltd has installed a Global Water & Energy (GWE) aerobic and anaerobic digestion plant at its seafood processing operation in the Seychelles to process wastewater and depending on how it is utilised, to provide biogas, which has the potential to replace fossil fuels.

The international seafood exporter expects the new plant to remove over 95% of organic contaminants from its wastewater.

"With world seafood production now topping 170 million tons – both from fisheries and aquaculture – there is obviously great scope globally for GWE technologies such those adopted by Indian Ocean Tuna to deliver a more sustainable environmental outcome. This plant sets global benchmarks for environmental outcomes and commercial sustainability," said GWE.

### Minimises green impact

The GWE plant uses treatment processes including its ANAMIX™ anaerobic waste digester to achieve outstanding discharge qualities and convert a mixture of wastewater and sludge into biogas, which can later reduce a company's dependence on fossil fuels and minimise its environmental impact.

By extracting biogas (primarily methane) from the organic waste removed, the fish processing plant can save more than 2,000 kg/d of fuel oil, worth about US\$1,000 per day.

Application of an anaerobic digester such as ANAMIX and mechanical dewatering by means of screw press also contributes to significant reduction in disposal costs and lower landfills requirements for solid waste, said GWE.

It stated that "biogas-producing green energy plants such as this can help pay for themselves. So there is a strong business profitability case to support companies wishing to act in an environmentally responsible manner."