

POME Dome Success For Landia Biogas Digester Mixing System In Malaysia

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A growing number of countries are moving away from lagoon-based systems for the treatment of palm oil mill effluent (POME). Landia has gained an important new order to supply nine of its acclaimed GasMix digester mixing systems for the generation of green energy in Malaysia.

By Paul Davies

Situated less than an hour from Kuala Lumpur International Airport, the digesters at Seri Ulu Langat Palm Oil Mill now benefit from externally-mounted GasMix systems that are low on maintenance, with no moving parts inside the tanks.

Working in close conjunction with civils works and tank supply specialists YMC, Landia has also supplied the complete pipework package for the three Epoxy Coated 28m (diameter) by 12m (high) digesters (each 7500m³). protect them from the additive (a formic acid mixture).

CSpeaking for the plant operator Dolphin Biogas Sdn. Bhd., Mr Teoh Kah Lean said: "There were much cheaper options than Landia, but when

switching on the GasMix mixing system, we have never seen a biogas dome inflate so quickly".

He added: "We are proud of our new above-ground biogas plants, which are much better for the environment. Landia has helped us achieve our goals every step of the way, with first-class knowledge and communication. Processing POME through an AD process with a project-specific, highly efficient mixing system is a big step in the right direction. Even though there are cheaper alternatives we will not be looking to change anything in our design for future projects".

Landia chopper pumps draw thick liquid from the bottom of the tank, where all solids are further chopped to accelerate the digestion process and prevent clogging of pipes and nozzles. Liquid is injected into the upper half of the tank, while biogas is aspirated from the top of the tank and mixed into the liquid through the same ejector/diffusor. Then, in the second stage of the mixing process, the settled liquid sludge is recirculated through the bottom mixer and is injected into the lower half of the tank, which creates powerful, comprehensive mixing of the tank's contents and stops any sedimentation build up. The system in Malaysia is low on energy, operating for just 40 minutes in every 2-hour period.

The latest GasMix order for Landia follows successful installations in China, Australia and Thailand, as well as numerous projects throughout Europe, South East Asia and the USA.

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