

BASIC: The low-cost, efficient solution for palm oil and cassava starch desulphurisation



Plant: Elphil Palm Oil Mill, Malaysia. Capacity: 800 M3/h (470 scfm) biogas 3,000 ppm H₂S

BiogasClean BASIC is the low-cost, efficient solution trusted by palm oil mills and cassava starch factories for efficient desulphurisation. The solution delivers guaranteed low-maintenance with reliable performance and the following features:

- **Affordable design:** the tank doesn't include a grating and is not designed for being filled with water, making it more affordable for smaller applications.
- **The Process Technique Unit (PTU):** is the engine room and includes a PLC controller board, a circulation pump, an air blower, valves, flow meters and, if required, a heating system installed on a skid.
- **The reactor tank:** is made of high quality fiberglass. The tank is supplied with a ladder and a handrail. Fiberglass tanks are manufactured in several countries to reduce transport-related costs.
- **The packing media:** is made of plastic and needs to be moved outside the tank for cleaning.
- **Safety:** injecting air or oxygen into biogas is achieved safely with a reliable control system. The PLC receives signals from an oxygen meter and reduces or stops air injection if the oxygen content in the clean gas is too high.

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Efficient, reliable operation: the system is automatically controlled by the PLC controller board, reducing the risk of manual errors. It provides stable conditions for the biological process and ensures a safe, reliable production process. The data is available in the control room and can also be accessed remotely.

Low operating costs: the system doesn't require chemicals and has a very low electrical consumption.

In many projects, we use treated water from an anaerobic digester or an aeration pond as scrubber liquid and nutrient source. This is cheaper than soft water and industrial fertilisers.

To prevent clogging inside the scrubber tank, the water is first pre-treated in the Make Up Water® system.

Guaranteed performance: we provide performance guarantees for all our systems.



Plant: Sri Jelutung Palm Oil Mill, Malaysia. Capacity: 800 M3/h (470 scfm) biogas 3,000 ppm H2S

We're Biogasclean - the specialists in biological desulphurisation and methanation of biogas and CO2.

We're part of the CycleØ Group, a leading developer that owns and operates biogas plants in Europe and beyond. At Biogasclean, we develop, manufacture and supply fully automated gas treatment systems that combine low operating costs and high availability. Our technology is trusted by 350+ plants in operation or under construction in 40+ countries.

Get in touch today for expert advice on your desulphurisation solutions

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