



## Biological removal of medium and larger H<sub>2</sub>S loads

BioGasclean supplies a full range of biological H<sub>2</sub>S removal systems. The gas cleaners with **FRP tanks** of reinforced fiberglass is used at farms, food processing plants, palm oil mills, starch factories and municipal sewage treatment plants.

BioGasclean manufactures FRP tanks in more than 10 countries. This enables BioGasclean to supply tanks in compliance with local standards and codes and with minimal transportation costs. Each BiogasCleaner is designed to the project specific biogas flow and H<sub>2</sub>S load and comprise the following 3 main systems:

**The PTU** - Process Technique Unit - is the machine room and contains circulation pumps, air blowers, PLC controller board, etc., installed in a in a customized FRP housing or modified shipping container.

**The scrubber tanks** are designed to withstand a hydraulic pressure of up to 2 bar (28 psi) and vibrations during QSR® cleaning. The tanks have internal pipe systems for gas distribution, spray, drain and QSR® cleaning. The tanks can be supplied with a grating so it is possible to inspect the tank and pipes underneath the packing media.

**The packing media** is manufactured in plastic (PP - polypropylene) and forms a random packed bed inside the tanks. The packing media shall be cleaned with the QSR® cleaning system typically 1-2 times a year.



the key to efficient  
and successful  
utilization of biogas

*Vichitbhan Thasae Palm Oil,  
Thailand*

- 2,500 m<sup>3</sup>/h
- 1,470 scfm
- 2,500 ppm H<sub>2</sub>S



*Minnesota Municipal Power  
Agency, Minnesota, USA*

- 3,900 m<sup>3</sup>/h
- 2,290 scfm
- 2,500 ppm H<sub>2</sub>S



## **BioGasclean A/S**

BioGasclean is specialized in biological desulfurization of biogas and landfill gas. The company develops, manufactures and markets advanced fully automated bio-trickling filters for H<sub>2</sub>S removal. At the end of 2013 BioGasclean has approx. 125 plants in operation or under construction in 35 countries and supplies clean renewable fuel to more than 300 MW gas engines.



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