

# MULTITECH BIOGAS PRE-TREATMENT SYSTEM



Before biogas can be used in a biogas engine genset to generate electrical power, the biogas has to be pre-treated via a biogas pre-treatment system to remove water vapour, hydrogen sulphide and particulate impurities.

We can design, build and install complete biogas pre-treatment systems to cater for any volume of biogas throughput, depending on the customers' requirement. Such biogas pre-treatment systems can be mounted on skid, and their capacities can range from 300 m<sup>3</sup> to 3,000 m<sup>3</sup> per hour. The systems have both full automatic control and manual control mode, and the blower speed can be integrated with the gensets to regulate the speed as required.

The frequency inverter unit controls and enhances the stability and flexibility when the system is operating. Our biogas pre-treatment systems are safe, reliable, easy to install and maintain, and low in operating cost.

For certain applications, such as for fueling Natural Gas Vehicles (NGVs), the biogas has to be further upgraded to biomethane by removing the carbon dioxide as well. This requires additional equipment which can also be included.



## Biogas generator sets / CHP & Pre-treatment equipment

**SP MULTITECH RENEWABLE ENERGY SDN. BHD.**

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# BIOGAS GENSETS / CHP

At SP Multitech Renewable Energy Sdn Bhd, we do not only build biogas plants but are also able to supply the biogas gensets (with a wide range of power capacities and engine choices) and equipment for the treatment and storage of biogas. Biogas gensets are specially designed and built to withstand the corrosive effect of any residual hydrogen sulphide in the biogas. These biogas gensets feature electronic mixers to obtain the best air/fuel ratio, allowing the use of biogas with methane content from 30% to 70%. They operate with improved efficiency while complying with international emission standards.

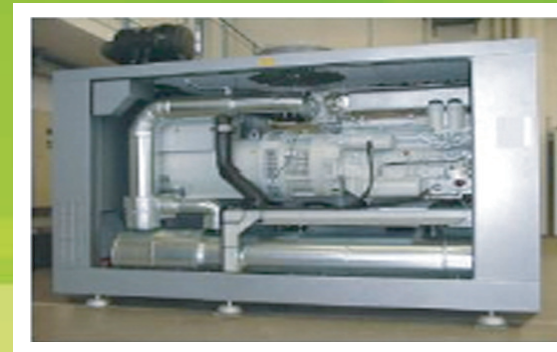
To connect the power generated for internal use as well as for export to the national grid, we also supply the requisite equipment such as transformers, synchronizers, cable works, etc. All gensets can be supplied either as open sets or housed in sound-proof canopies.

We have received the 'Green Project Certification' from the Ministry of Energy, Green Technology and Water (KeTTHA) of Malaysia for the manufacturing of biogas plants, biogas gensets and all biogas-related equipment. With our complete range of such equipment, we can cater to the needs of any biogas project.

The smaller size biogas gensets are available in our Multitech MC series and MD series, ranging from 0.5kW to 370kW. These gensets come with automatic/manual control system, electronic governor, automatic malfunction monitor and automatic shutdown protection. They are built from high-strength cast iron with sufficient mechanical strength and stiffness, and are known for their low maintenance and running costs.



Medium capacity biogas gensets ranging from 300kW to 1000kW are available in our Multitech MC series, MG series & MM series. These biogas gensets are also known for their high efficiency, low emission, low maintenance and operation costs.



Large capacity biogas gensets of 1000kW to 3000kW are available in our Multitech MW series. These highly durable and well designed large biogas gensets are well known for delivering maximum efficiency.



**For more information or technical proposal, please contact us :**

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