

## BIOGAS

Biogas is produced through the decomposition of organic material in the absence of oxygen. Biogas is primarily composed of methane but also contains many other compounds, the major constituents being carbon dioxide, water, hydrogen sulphide, siloxanes and trace volatile organic compounds.

As a global warming agent, methane is 23 times more powerful than carbon dioxide and accounts for more than 14% of all man-made greenhouse gas emissions on Earth. Capturing methane emissions, purifying them, and converting them for power generation or vehicular fuel sources has the dual effect of mitigating climate change impact and helping to provide a sustainable source of clean renewable energy.

The removal of impurities and conditioning of the biogas helps to improve the recoverable value of the resource through greatly reduced operation and maintenance costs for downstream equipment such as reciprocating engines and turbines.

The **Biorem** approach uses a biological solution that offers reliable and simple operation without the use of chemicals or costly consumable medias. With over 600 biological purification systems installed worldwide over its twenty year operating history, Biorem engineers are available to help design a solution using advanced medias and biological processes for your particular application.

Whether the biogas stream is from landfill, agriculture or waste water, Biorem is able to deliver a cost effective high performance system.