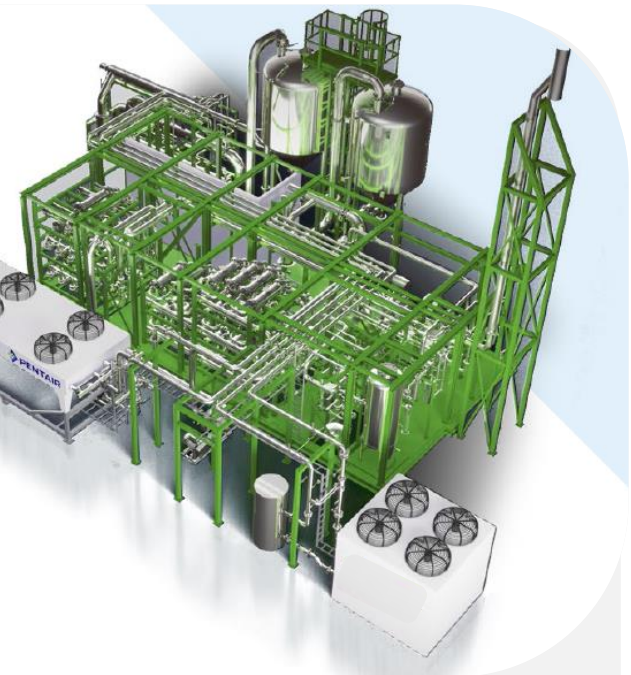


# BIOGAS UPGRADING

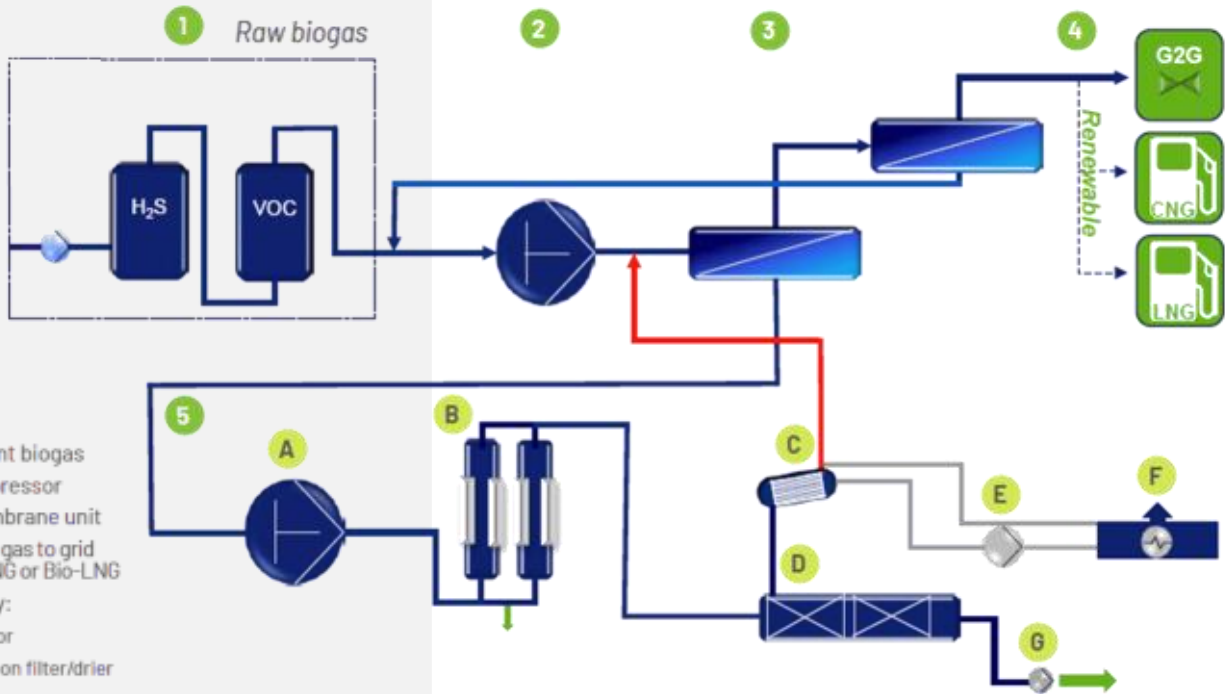


## ABOUT US

Potentia engineering with over 25 year of experience employing advanced and high-performance practices in industries can partner with you in turning waste streams into sustainable energy solutions and valuable revenue streams.

## OUR OFFERING

The advanced approach of turning biogas into bio-methane can be realized with our Biogas upgrading solution, which recovers bio-methane as a replacement for fossil-based natural gas. The highly cost-efficient membrane-based biogas upgrading solution allows for a significantly higher bio-methane yield with low methane slip and low energy consumption. The bio-methane can be injected into existing gas grids as a sustainable replacement of fossil natural gas or it can be utilized as fuel – either as Renewable CNG or Renewable LNG. Utilizing bio-methane eliminates fossil fuel based carbon emissions in industrial & domestic environment, transportation, electricity, & heat production.



- 1 Pre-treatment biogas
- 2 Biogas compressor
- 3 2-stage membrane unit
- 4 Biogas outlet gas to grid or optional CNG or Bio-LNG
- 5 CO<sub>2</sub> Recovery:
  - A CO<sub>2</sub> compressor
  - B Activated carbon filter/drier
  - C CO<sub>2</sub> condenser
  - D Stripper/re-boiler
  - E Cooling compressor
  - F Dry cooler
  - G CO<sub>2</sub> pump

Cost-effective upgrading of biogas to bio-methane

Low Total Cost of Ownership (TCO)

Increased biogas value with market demand shift from electricity to bio-methane production

Optional Enclosed Skid solution for ease of installation/ relocation and low noise

Small footprint and skid height

Rapid project execution



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