



APBS-CARBex[®]

Deep CO₂ Removal for Renewable Natural Gas Upgrading



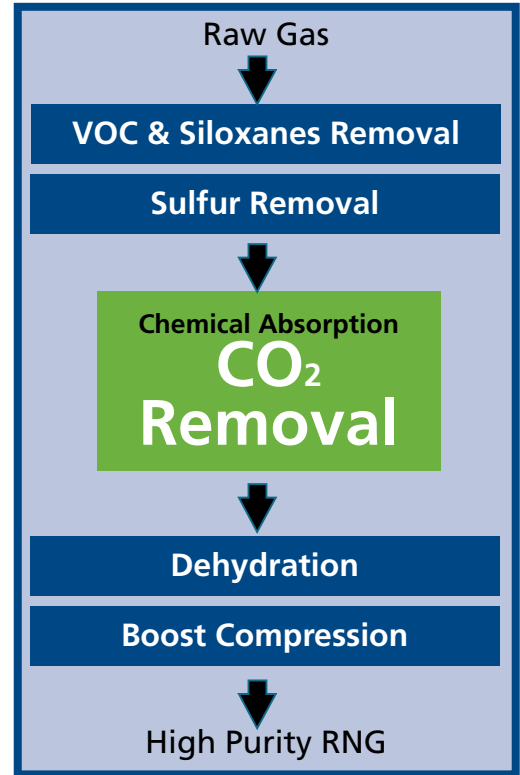
APBS-CARBex®

APBS-CARBex® is a commercially proven technology that separates CO₂ from biogas and landfill gas streams at near atmospheric pressure.

The process uses thermal energy to remove CO₂ and recover > 99% of the raw methane to produce pipeline quality natural gas (RNG) or compressed natural gas (CNG).

The benefits of APBS-CARBex® include reduced compression, low methane losses, and high methane quality versus competing technologies like membranes and pressure swing adsorbers.

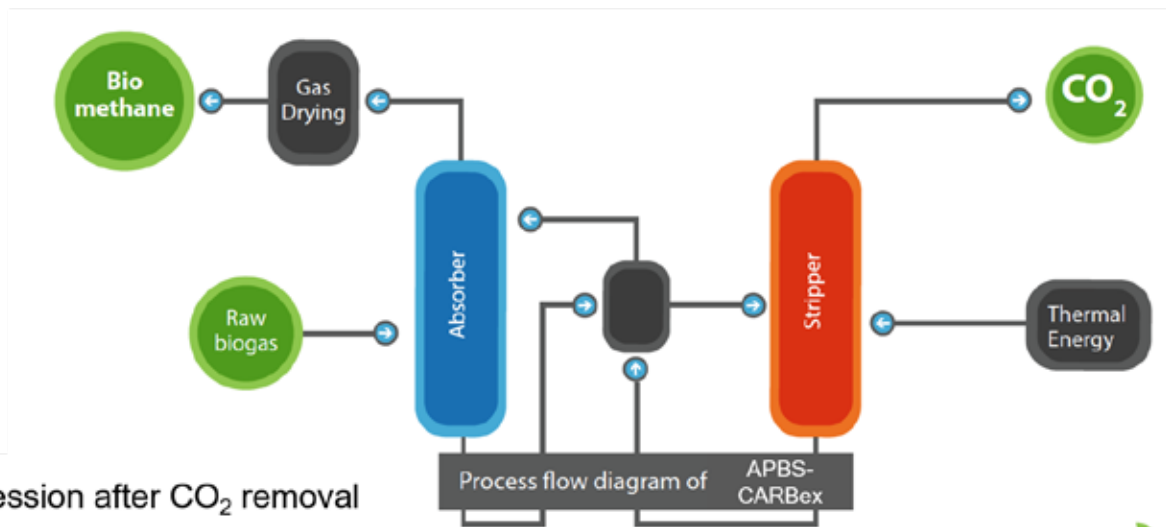
Upgrading Landfill or Biogas



Operating & Cost Advantages

- ✓ Methane loss < 1%
- ✓ Methane quality > 99% vol.

- ✓ In-situ desulfurization (optional)
- ✓ No pre-hydration



- ✓ Compression after CO₂ removal
- ✓ Smaller compressors required

APBS-CARBex®



Whether you're an equipment provider, EPC or end user, ENHANCED PERFORMANCE will improve your business!

- Saves Energy—Less Compression
- Reduces Methane Loss
- Maximizes Methane Purity

A Proven Track Record

Carbon Clean Solutions Limited (CCSL) is a recognized leader in carbon dioxide (CO₂) separation and recovery as demonstrated by the > 30 biogas plants now operating with CCSL solvents.

ADMINISTRATION

CORPORATE HEADQUARTERS **LONDON, UK**

SALES OFFICE **HAMBURG, DE**

SALES OFFICE **ALICANTE, ES**

SALES OFFICE **CHICAGO, USA**

RESEARCH CENTER **SHEFFIELD, UK**

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www.carboncleansolutions.com