

ELASTIA

MEMBRANE MODULES FOR BIOMETHANE UPGRADING

IMPROVE BIOMETHANE PROFITABILITY.

Elastia develops membrane materials, hollow fibres and engineered modules for CO₂/CH₄ separation.

TWO ROUTES TO BETTER UPGRADING ECONOMICS

INCREASE OUTPUT

Explore more biogas throughput while meeting purity and methane-recovery targets.

REDUCE ENERGY DEMAND

Explore meeting a target output at lower compressor pressure and energy demand.

MEMBRANE MODULES AVAILABLE FOR EVALUATION

Available in 4, 6 and 8 inch diameter cartridges.
Customer dimensions (e.g. 12-16 inch) also available upon request.

DISCUSS YOUR UPGRADE OPTIONS

elastialabs.com

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ELASTIA

FROM MATERIAL TO MODULE

UK materials research and engineering; module production in Hangzhou.

- 01 Proprietary membrane material IP**
CO₂/CH₄ materials tailored to the target gas stream.
- 02 Hollow-fibre and module engineering**
Fibre, potting and module configurations adapted to the application.
- 03 Product ready for testing**
Fibres and cartridges available for evaluation and interface adaptation.

MODULE PERFORMANCE & NEXT STEPS

EXTEND MODULE LIFE

Regeneration may help restore membrane performance.

LABORATORY SEPARATION EVIDENCE

Stable separation performance for more than 2,000 hours in laboratory testing.

ASSESS THE CO₂-RICH PERMEATE

Depending on composition and site requirements, the separated stream can be assessed for capture, utilisation or management.

MATERIALS SCIENCE RESEARCH SUPPORTED BY



Advanced membrane materials for more efficient biomethane upgrading.