

A WÄRTSILÄ COMPANY

PUREGAS 
SOLUTIONS

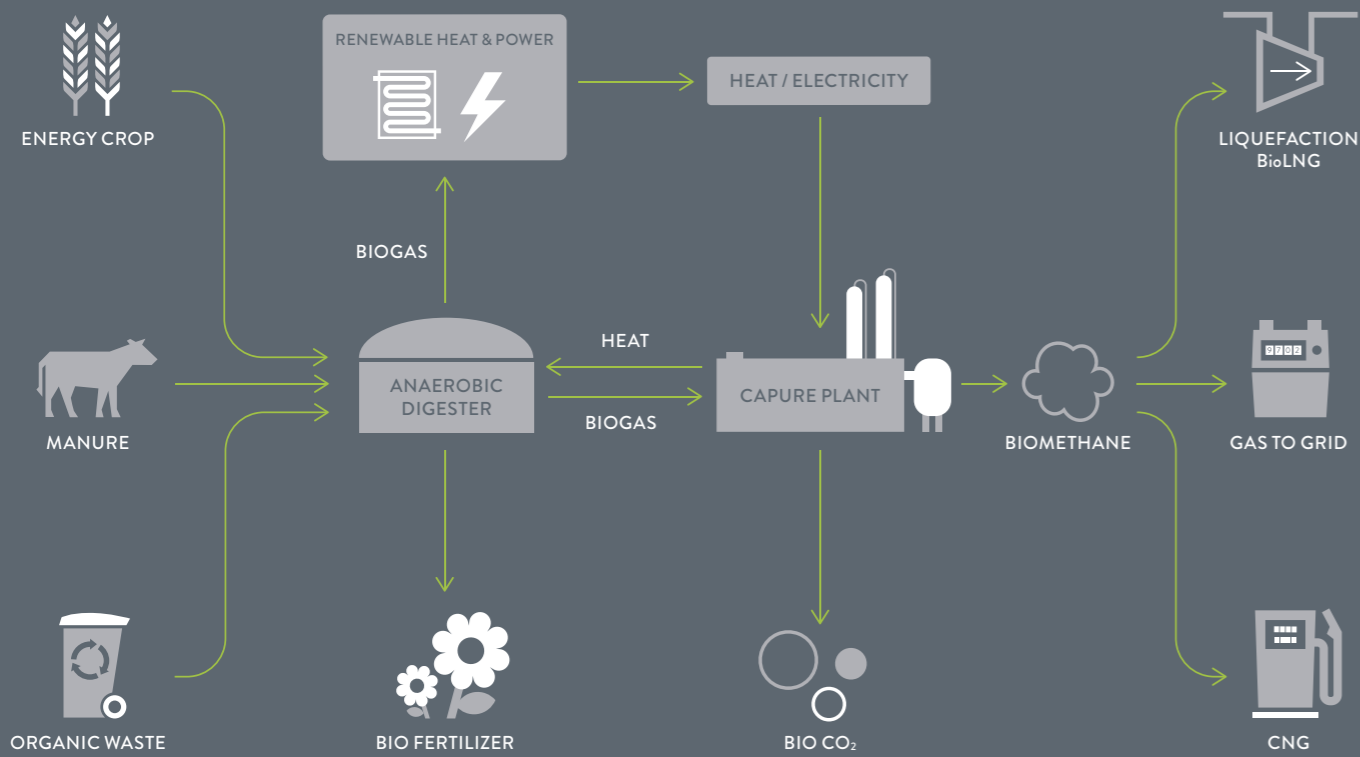
BIOGAS UPGRADING

FUELLING
OUR FUTURE

CONSIDER THE COMPLETE PICTURE

CREATING LIFETIME PARTNERSHIPS IS AT THE CORE OF OUR BUSINESS PHILOSOPHY. THIS ENSURES THE BIOGAS UPGRADING SOLUTIONS WE PROVIDE ARE PRECISE AND ATTAIN THE BEST POSSIBLE RETURNS FOR OUR CLIENTS.

BIOGAS PROCESS OVERVIEW



OUR BUSINESS

Puregas Solutions is a Swedish based company delivering highly efficient and extremely reliable biogas upgrading solutions. A Global market leader, Puregas Solutions has subsidiaries in the UK, Denmark, Germany and the USA. With more than 20 years' experience Puregas Solutions designs and delivers biogas upgrading solutions using the unique CApure process.



CLEAN RENEWABLE ENERGY FROM WASTE

All human activity creates waste. However, waste can also be a very valuable resource. Excess agricultural produce, manure, wastewater sludge, household, supermarket and restaurant waste are all perfect raw materials for biogas production via anaerobic digestion. This Biogas can be upgraded to biomethane which is used as a low carbon

vehicle fuel or injected into the natural gas grid providing renewable energy to both homes and businesses.

CApure biogas upgrading plants are based on high quality, standardised modular designs. Pre-fabricated plants are tested, process optimised and quality controlled in our production facility prior to

delivery, reducing site time and cost for installation and commissioning.

Plants are built to exacting standards ensuring total quality control and operational reliability. They are certified by third party inspection, to ensure the plants meet stringent international quality, safety and performance requirements.

THE BENEFITS

EXPERIENCE YOU CAN TRUST

With more than 20 years of experience Puregas Solutions manufactures and supplies Biogas Upgrading Plants. The unique CApure upgrading process recovers over 99.9% of the available methane from the raw biogas, maximising biomethane yields and revenues with exceptionally low operational costs. Puregas provides fully integrated solutions for biogas upgrading and have over 30 plants already operating across the globe.

PROVEN TECHNOLOGY

The CApure process recovers more than 99.9% of the biomethane present in the raw biogas. The process separates the CO₂ from the biogas by a process of chemical adsorption. The selective organic solvents used in this process are so efficient that the end product can contain more than 99% methane and is suitable for vehicle fuel or to be injected into the natural gas grid.

GREATEST RETURNS

Additional value can be derived from the pure CO₂ stream produced as is it removed from the biogas. This CO₂ can be captured and used for propagation in glass houses, as a cooling agent or in general industrial applications.

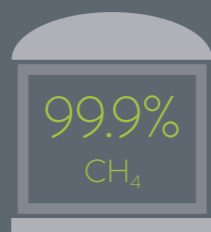
CApure technology achieves the highest methane recovery, reducing methane slip to less than 0.1%. There is no hidden additional cost or energy requirement associated with treating the tail gas and harmful emissions to the environment are avoided. The long life, biodegradable organic solvents used in the CApure process are part of a closed-loop system keeping water consumption to a minimum.

“PUREGAS SOLUTIONS WORK IN PARTNERSHIP WITH CUSTOMERS TO ENSURE OUR FULLY INTEGRATED UPGRADING SOLUTIONS PROVIDE THE HIGHEST REVENUES POSSIBLE AND MAXIMISE RETURNS.”

Jan Molin—Managing Director



13 million compressed natural gas vehicles worldwide.



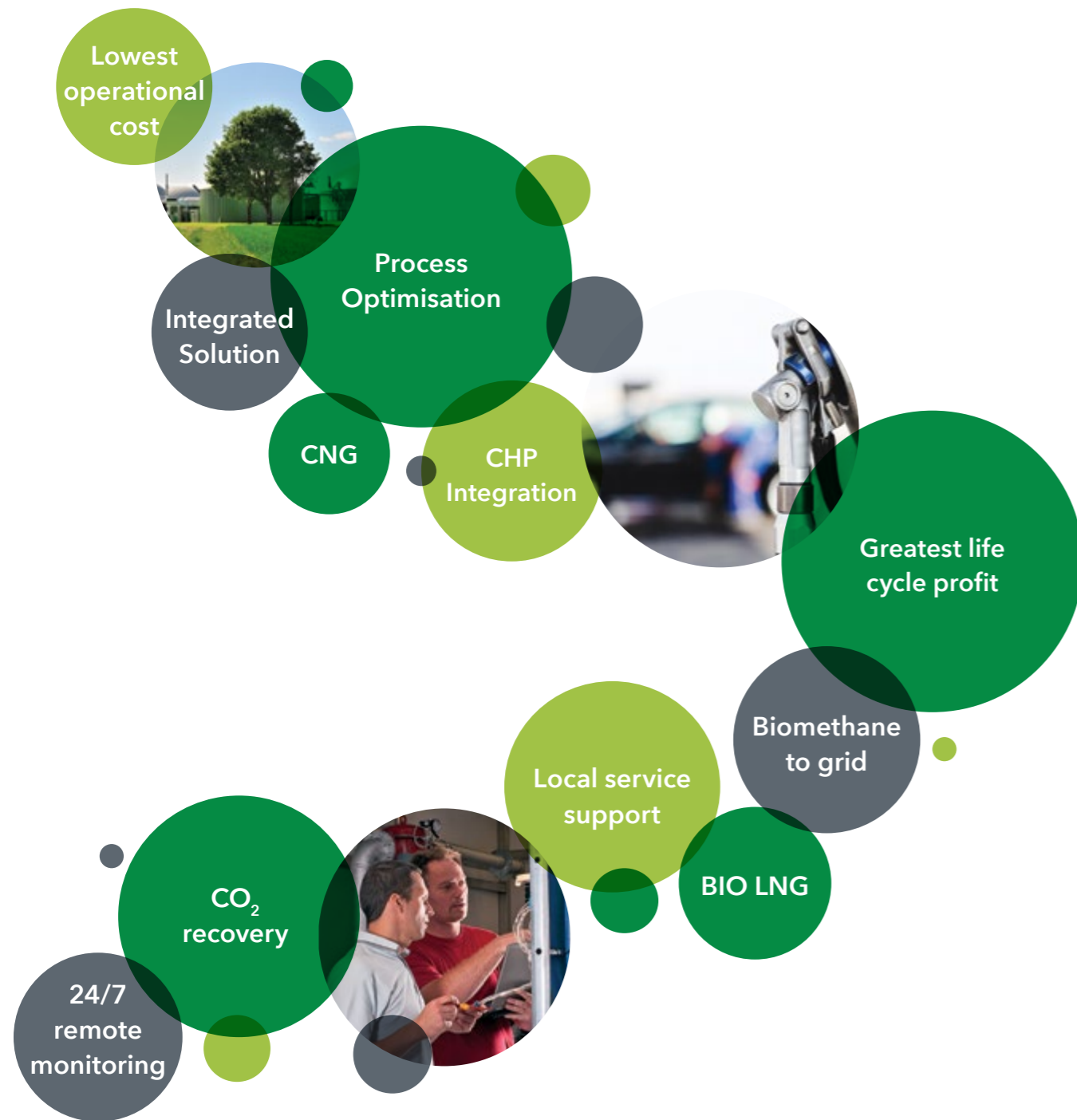
Recovered by Puregas Solutions unique upgrading process.



Over 30 plants already operational across Europe.



INTEGRATED SOLUTIONS



PROTECTING OUR ENVIRONMENT

99.9%

METHANE RECOVERY

CApure technology achieves the highest methane recovery, reducing methane slip to less than 0.1%. There is no hidden additional cost or energy requirement associated with treating the tail gas and harmful emissions to the environment are avoided.

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CAPURE STANDARD MODELS

CAPACITY RANGE NM³/H RAW BIOGAS

	1000 ▶	2000 ▶	3000 ▶	4000 ▶	5000 ▶	6000 ▶	7000 ▶	8000 ▶	9000 ▶	10,000 ▶
CA30	█	█	█							
CA40	█	█	█	█						
CA50	█	█	█	█	█					
CA60		█	█	█	█	█				
CA70			█	█	█	█	█			
CA80				█	█	█	█	█	█	
CA90					█	█	█	█	█	█

OUR GLOBAL NETWORK

Puregas Solutions AB

Torsåsgatan 3A
392 39 Kalmar
Sweden
Tel: +46 (0) 480 770 000

Puregas Solutions Ltd

Business and Innovation Centre
Enterprise Park East
Sunderland
SR5 2TA
Tel: +44 (0) 191 516 6662

Puregas Solutions GmbH

Deichstrasse 1
20 459 Hamburg
Germany
Tel: +49 (0) 160 906 629 51

Puregas Solutions AS

Birkemose Allé 39
6000 Kolding
Denmark
Tel: +46 (0) 7016 44 312

Puregas Solutions LLC

5161 Overland Avenue
Culver City
CA 90230
USA
Tel: +1 310 753 3565

Email: info@puregas-solutions.com

www.puregas-solutions.com

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