

A WÄRTSILÄ COMPANY

PUREGAS 
SOLUTIONS

BIOGAS UPGRADING

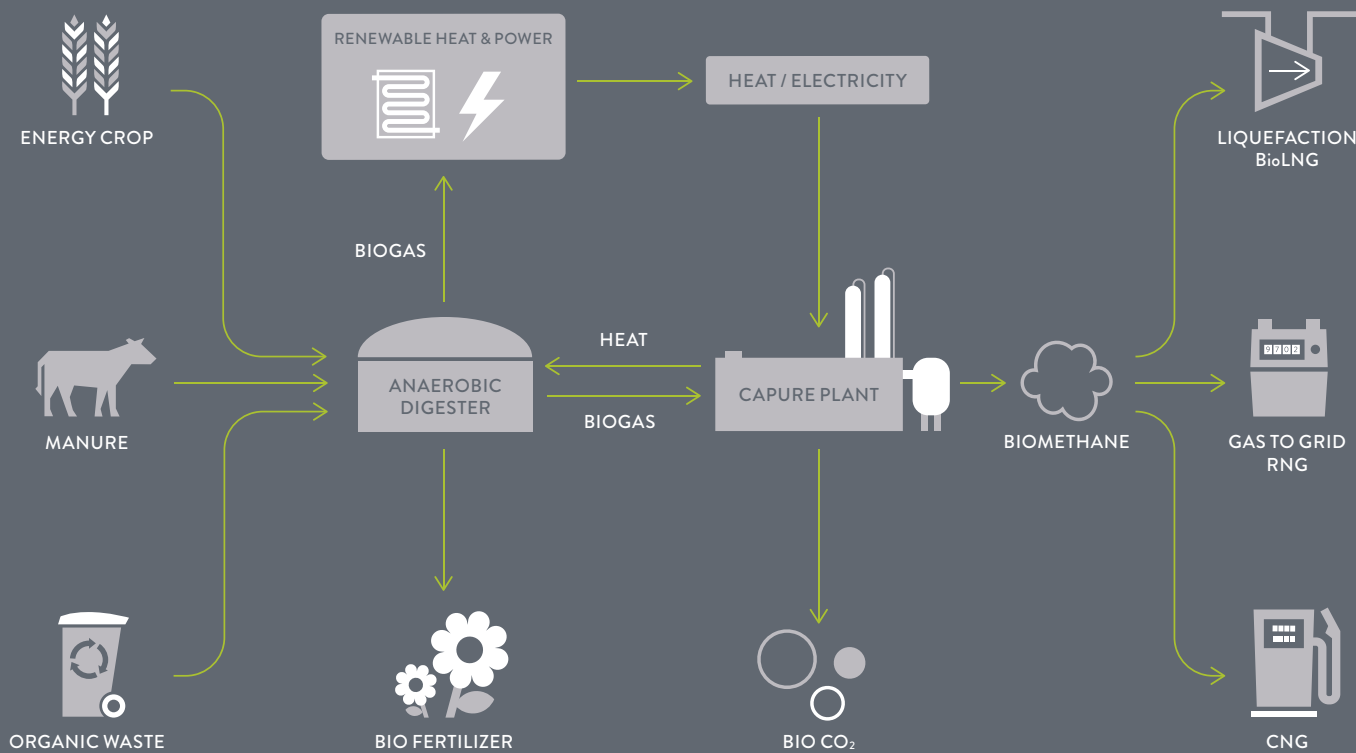
RENEWABLE NATURAL GAS

FUELING
OUR FUTURE

OUR BUSINESS

PUREGAS SOLUTIONS IS A SWEDISH BASED COMPANY DELIVERING HIGHLY EFFICIENT AND ULTRA RELIABLE BIOGAS UPGRADING SOLUTIONS. A EUROPEAN MARKET LEADER, PUREGAS SOLUTIONS HAS SUBSIDIARIES IN THE USA, DENMARK, GERMANY AND THE UK. WITH MORE THAN 20 YEARS' EXPERIENCE PUREGAS SOLUTIONS DESIGNS AND DELIVERS BIOGAS UPGRADING SOLUTIONS USING THE UNIQUE CAPure PROCESS.

BIOGAS PROCESS OVERVIEW



CLEAN RENEWABLE ENERGY FROM WASTE

All human activity creates waste. However, waste can also be a valuable resource. Excess agricultural produce, manure, wastewater sludge, household and restaurant waste are perfect raw materials for biogas production. Biogas can be upgraded to Renewable Natural Gas (RNG), which is used as a low carbon vehicle fuel or injected into the natural gas grid providing renewable energy to both homes and businesses.



THE BENEFITS

EXPERIENCE YOU CAN TRUST

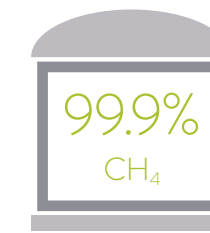
With more than 20 years of experience Puregas Solutions manufactures and supplies Biogas Upgrading Plants. The unique CAPure upgrading process recovers over 99.9% of the available methane from the raw biogas, maximizing Renewable Natural Gas yields and revenues with exceptionally low operational costs.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



13 million compressed natural gas vehicles worldwide.

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.



Recovered by Puregas Solutions unique upgrading process.

GREATEST RETURNS

Additional value can be derived from the pure CO₂ stream produced as it is removed from the biogas. This CO₂ can be used in food and beverage production, for manufacturing dry ice and in other industrial applications.



Over 30 plants already operational across Europe.

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.

The long life, biodegradable organic solvents used in the CApure process are part of a closed-loop system keeping water consumption to a minimum.



OUR GLOBAL NETWORK

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