

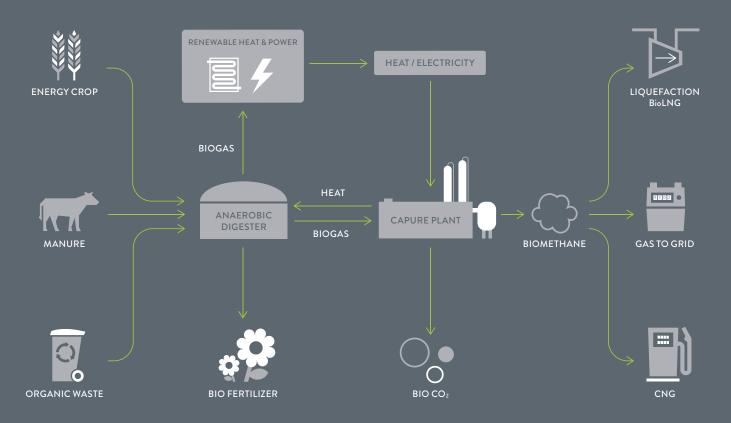
# BIOGAS UPGRADING



#### **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 CO<sub>2</sub> 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 CO<sub>2</sub> stream produced as is it removed from the biogas. This CO<sub>2</sub> 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.



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

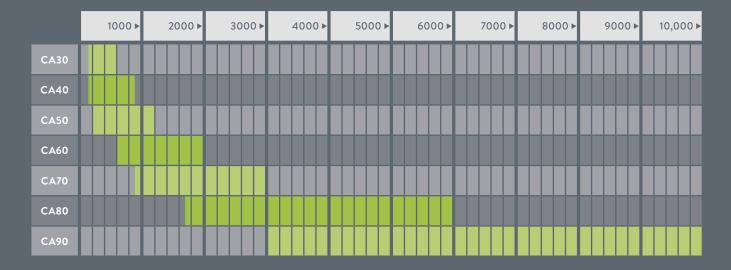


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## **CAPURE STANDARD MODELS**

CAPACITY RANGE NM3/H RAW BIOGAS





# **OUR GLOBAL NETWORK**

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