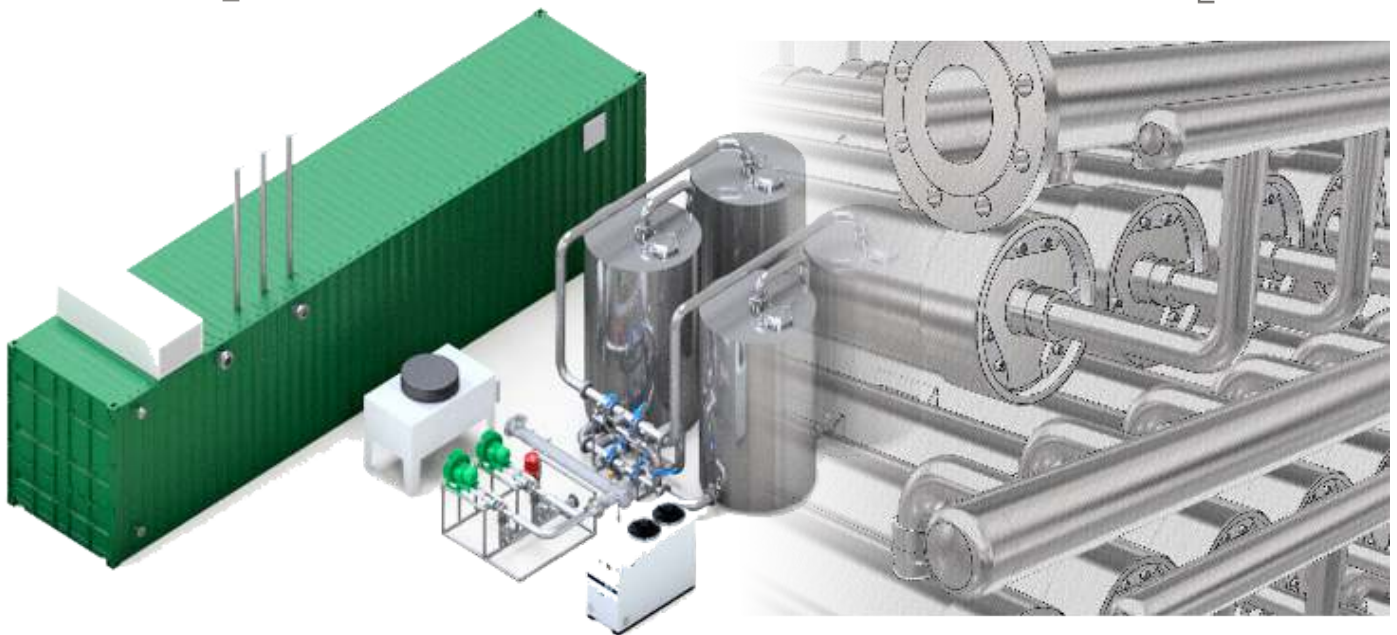


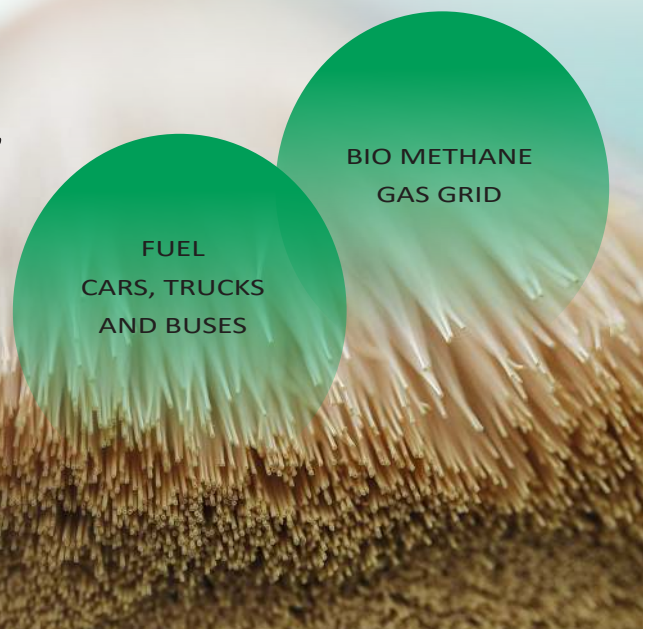
MEMBRANE-BASED

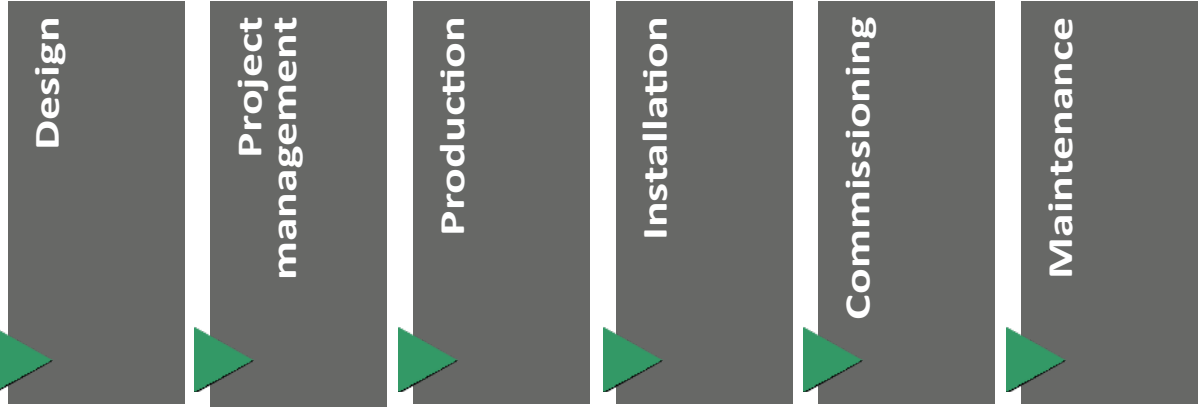
NISSEN ENERGY GAS UPGRADING PLANT



What to consider when choosing...

- » Sizing the plant
- » Need for gas pretreatment
- » Installation conditions
- » Detailing the installation
- » Need for heat recovery
- » Gas quality output





EFFICIENT BIOGAS UPGRADING

NISSEN's membrane gas upgrade systems can be used for various purposes

The upgraded biogas can contribute to a green conversion of the natural gas grid or as fuel for vehicles.

The NISSEN upgrade system is constructed flexible so that the biogas is utilized best in proportion to the quantity and requirements.

The installation can be combined with a gas engine (CHP).

NISSEN energy offers a complete solution with full utilization of biogas.

Our solution is adapted to the individual site, as each installation is unique.

We advise on the best utilization based on regulatory requirements, targets and subsequent optimal maintenance.

We manufacture and design our NISSEN upgrade system in Denmark, built around Evonik's SEPURAN® membrane, which is the most efficient membrane on the market.

The plant's methane yield is > 99.5%.

Designed for minimum maintenance.

High efficient upgrading process.

We are with you all the way, from idea to the finished installation.



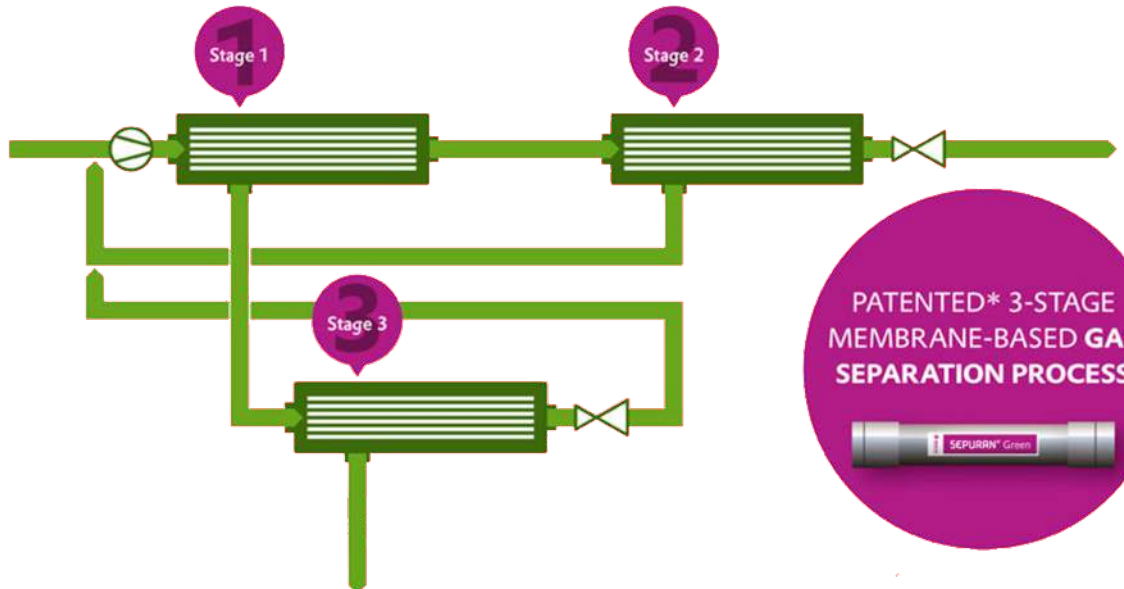
EP 2588217 B1 • US 8999038 B2

PATENTED

SEPURAN® Green
An Evonik product.

3-STAGE PROCESS

CERTIFIED SYSTEM INTEGRATOR



PATENTED* 3-STAGE MEMBRANE-BASED GAS SEPARATION PROCESS