MEMBRANE-BASED

GAS UPGRADING PLANT
BIOGAS → RNG

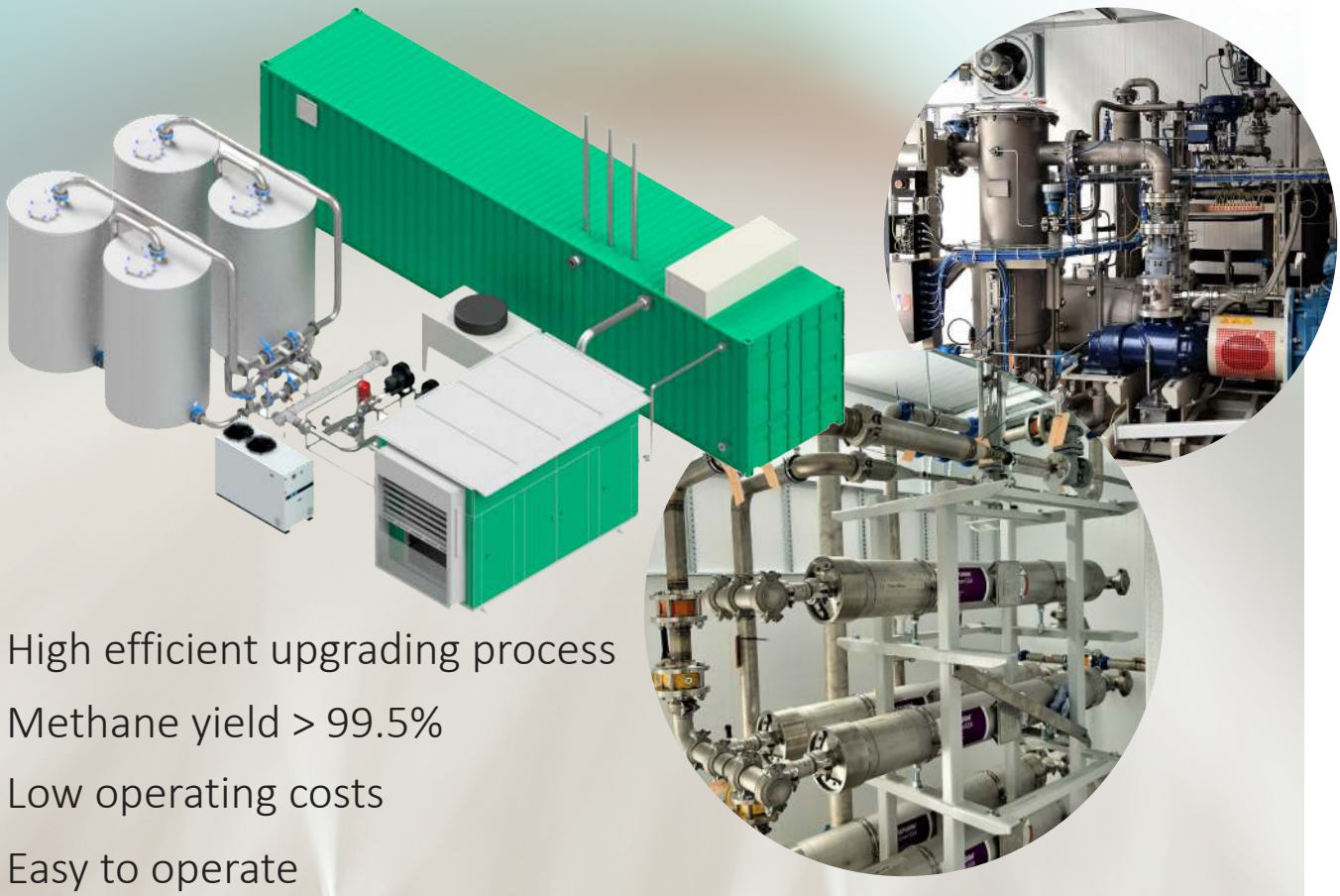
WASTE WATER
MANURE
FOOD WASTE

DIGESTER

GAS TREATMENT

GAS UPGRADING

GAS GRID
FUEL FOR VEHICLES



- High efficient upgrading process
- Methane yield > 99.5%
- Low operating costs
- Easy to operate

NISSEN energy Inc.

Sizing the plant - need to know data:

» Biogas composition
» Methane production
» Need for gas treatment
» Installation conditions
» Heat recovery
» Quality of upgraded biomethane

NISSEN energy Inc.

Design | Project management | Production | Installation | Commissioning | Maintenance

EFFICIENT RNG PRODUCTION

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

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

The NISSEN upgrading 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 design and produce our NISSEN upgrading system in Denmark, based on 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.

ISO 9001:2015

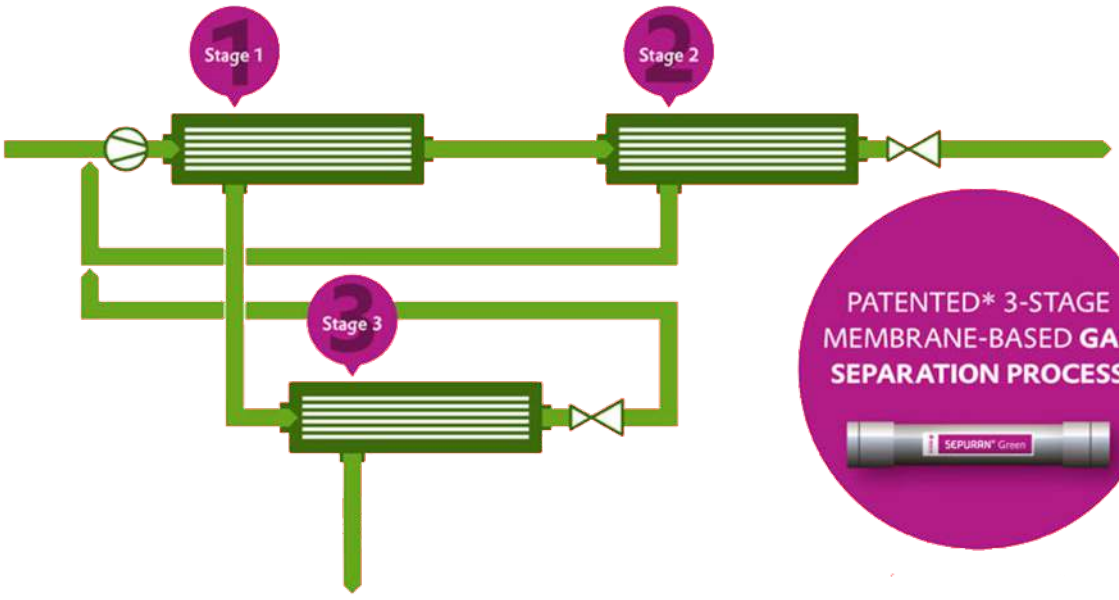
EP 2588217 B1 • US 8999038 B2

PATENTED

SEPURAN® Green
An Evonik product.

3-STAGE PROCESS

CERTIFIED SYSTEM INTEGRATOR



PATENTED* 3-STAGE MEMBRANE-BASED **GAS SEPARATION PROCESS**