

Purac Puregas

August 2013



Läckeby Water Group

Läckeby Water Group is an independent, privately-owned Swedish group, which offers contracting, products and servicing for water treatment and biogas production.

We are established on three continents and have to date completed contracts in 70 countries worldwide. With sales of around 80 m€, Läckeby Water Group is a leading company in its field.

PURAC

Turnkey plants

Water treatment world-wide

Biogas production

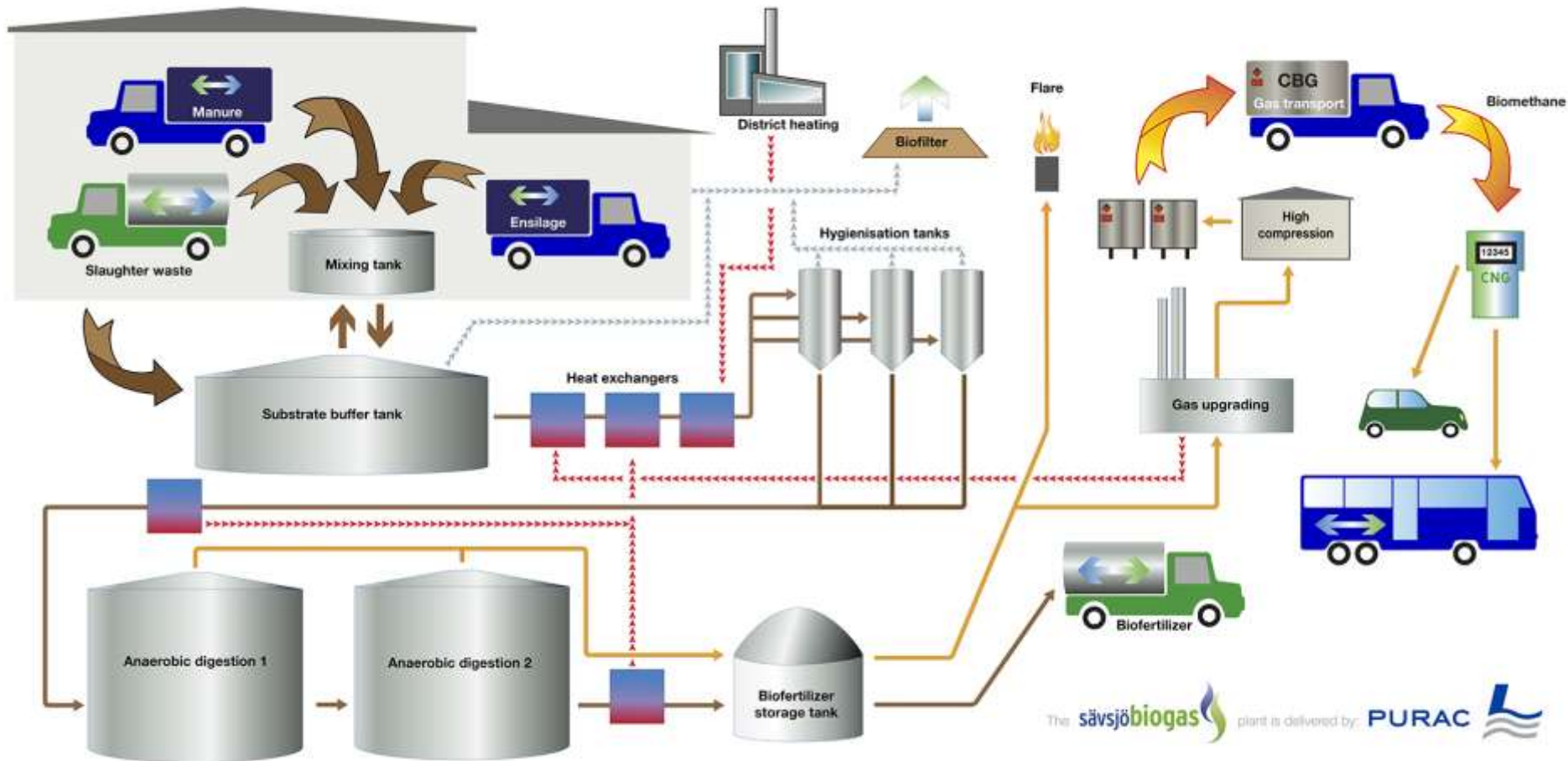
PURAC PUREGAS

Biogas Upgrading Plants

Excellent overall economy

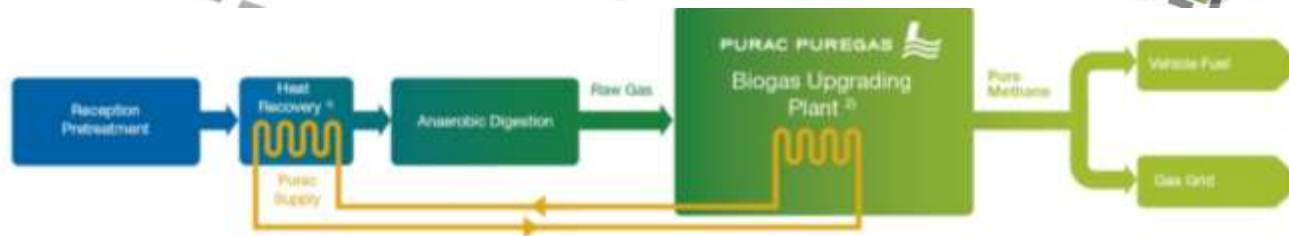
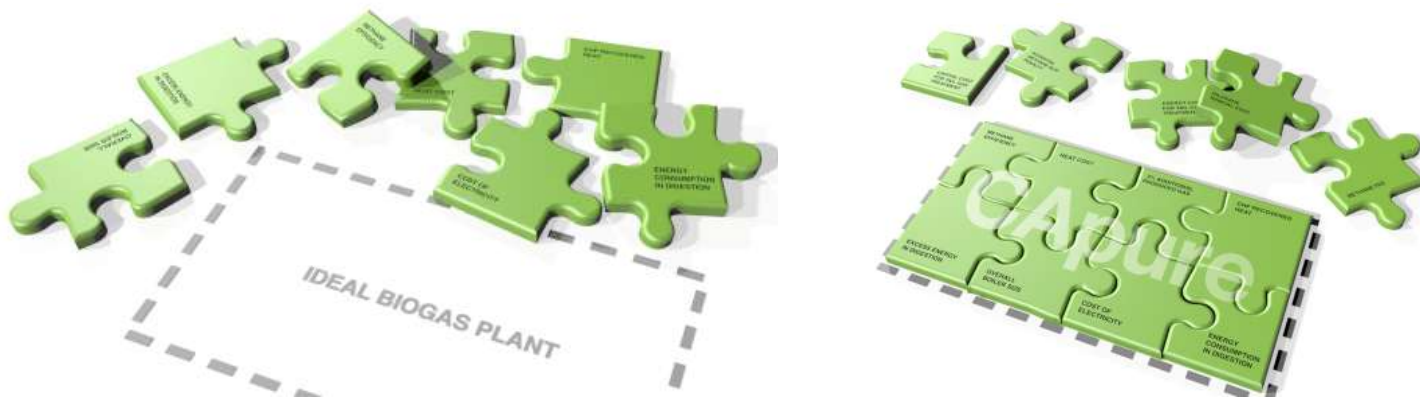
Cleanest production of biomethane worldwide

Together we can build turn-key solutions



... and we benefit from the experience when we act alone...

Total system know-how for plant optimization



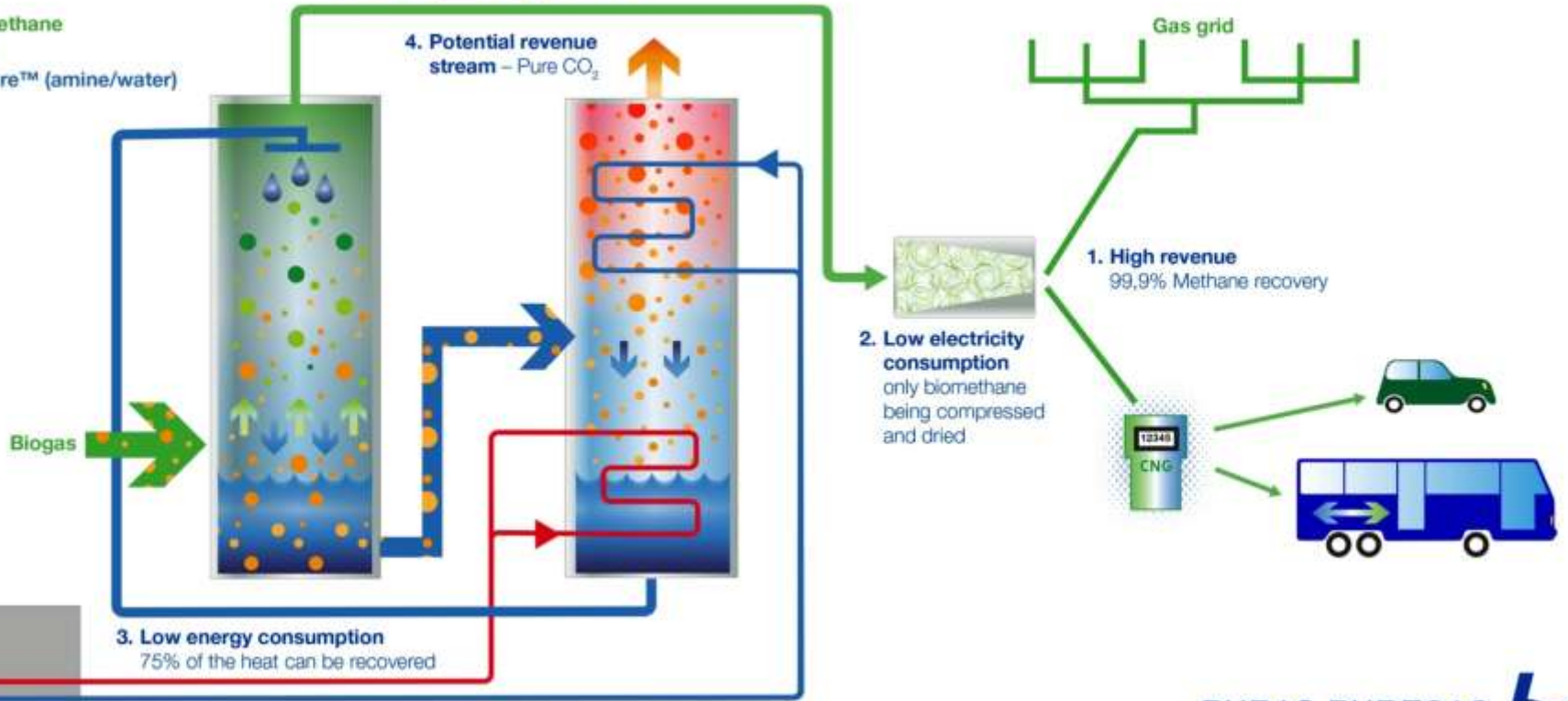
¹Heat recovery by pre-heating substrate fed to digestion with waste heat from CApure™ process.

²Factory manufactured, approved by notified body for commissioning with gas before delivery to site.

CApure™ operation & benefits

- Legend
- Biomethane
 - CO₂
 - CApure™ (amine/water)

The CApure™ process



CApure™ as of today

- ✓ 3rd generation upgrading plants
- ✓ Proven technology
- ✓ High quality standard
- ✓ Manufactured and tested in-house
- ✓ CHP integration
- ✓ Vacuum system option (pat. pending)



Purac Puregas

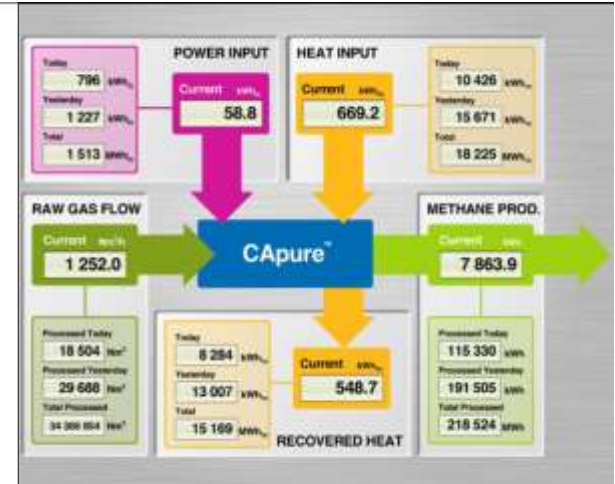
12+ years experience & expertise @ your service



Put it on autopilot

CApure™ biogas upgrading plants are incredibly easy-to-operate. All you need to do is to put the control system on automatic - and the process run as efficiently as possible. When the plant is up and running, physical supervision is walk through the plant and checking the

Remote alarm to operator and/or Purac Puregas Remote Operation Centres



✓ Purac whole life-cycle support



Purac Puregas provides tomorrows solutions today



– best Life Cycle Profit



– experience and expertise @ your service

References CApure™

- Borås in operation since 2002, 450 Nm³/h, co-digestion **)
- Gothenburg in operation since 2006, 1600 Nm³/h, WWTP *)
- Kalmar in operation since 2008, 200 Nm³/h, co-digestion **)
- Falkenberg in operation since January 2009, 750 Nm³/h, co-digestion *)
- Stockholm in operation since April 2009, 800 Nm³/h, co-digestion **)
- Stavanger in operation since August 2009, 500 Nm³/h, co-digestion *)
- Oslo, Bekkelaget in operation since January 2010, 750 Nm³/h, WWTP **)
- Karlstad in operation since April 2010, 200 Nm³/h, WWTP **)

*) Grid injection to natural gas grid,

**) Vehicle fuel filling station or local biomethane grid

References CApure™ cont.

- Könnern Sud in operation since October 2009, 3400 Nm³/h, green crops *)
- Linköping, Svensk Biogas in operation since November 2010, 3400 Nm³/h, co-digestion **)
- Sävsjö in operation since May 2012, 600 Nm³/h, manure co-digestion **)
- Freiburg in operation since July 2012, 1000 Nm³/h, green crops *)
- Växjö to be put into operation August 2012, 500 Nm³/h, WWTP **)
- Eichsfeldtgas, new contract to be put into operation Dec 2012, 700 Nm³/h, green crops *)
- Biogas Zürich, new contract to be put into operation 2013, 1400 Nm³/h, WWTP *)
- Karlskoga, new contract to be put into operation June 2013, 900 Nm³/h **)
- UK, new contract to put into operation 2013, 2000 Nm³/h *)
- More Biogas, 600 Nm³/h

*) Grid injection to natural gas grid,

***) Vehicle fuel filling station or local biomethane grid

Thank You

