Energy Independence of Cities and Municipalities 2024 at Eryk-Biogas





Agrometer in Brief

Agrometer is the global market leader in the most sustainable continuous flow digestate application systems using hoses (non-drag version). Currently Agrometer solutions are yearly distributing more than 22.000.000 ton of digestate from biogas and liquid manure from agricultural farms.

Agrometer solutions are distributing 18% of the total slurry amount in Denmark, and 3% of the total amount in Germany.











SELFPROPELLED SLURRY SPREADING

Slurry Distribution: upto 250 m3/hour Fuel consumption: 12l/hour @ 170m3

Total field weight: 22.450 kg

Operating range: 30-36m boom







The Agrometer Concept

- The Agrometer Concept is to ensure continuous operation in the fields by pumping slurry from pits, lagoons etc. to the applicators.
- In the fields The Agrometer Concept technically ensures that the feeding hose stays put on the ground, to prevent it from being dragged across the crops, hence making it suitable for operation in high crops.
- The Agrometer Concept operates with both mobile and stationary feeding pumps, and current setup can operate with a distance up to 20 km between storage and field.









5 Key Benefits of The Agrometer Concept

Low Operation Costs

The fairly small engines on the machines (168 - 208 kW) and the low number of rpm's required for operation, leads to a low fuel consumption.

The continuous in-field operation ensures a more steady and gentle stress on the machinery, which reduces wear and tear, providing a longer service life and less maintenance costs.

Reduce Structural Damage to the Fields

A limit of only 2 passes in the tramline and the low self-weight reduces field damage and soil compaction, which helps to protect the crops and increase yield.

Weight SDS self-propelled applicator: 46,200 lbs
Weight SRS umbilical applicator: 22,050 lbs (w/o tractor and tool)
Weight of machine hose when completely full: 13,275 lbs

High Performance Through Continuous Operation

The constant flow from pump to field enables continuous operation in the fields, ensuring a high overall performance against total machine operation hours. In average Agrometer machines, including reconnection of hoses, distribute 175-200 US ton/total working hour

Build to Biogas Digestate

Biogas digestate contains valuable nitrogen. Optimized utilization of the nitrogen ensures increased yield and helps to cut costs for fertilizer. The Agrometer Concept provides accurate application through dosage-controlled propulsion speed.

Improved Percolation and Cleaner Operation

The way of operation means the complete tramline is passed only twice; outward laying out the machine hose and collecting it when returning.

This improves the percolation of the digestate, as half of the dose is applied on each passing.

The actual tramline itself however is only processed when returning, meaning the machine is not being soiled.

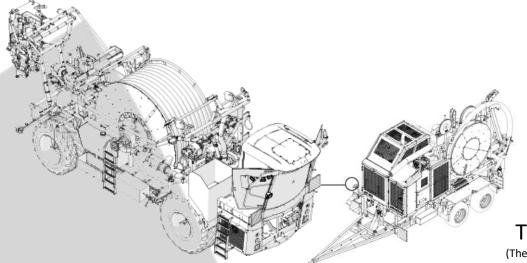








SUSTAINABLE SLURRY DISTRIBUTION AT LOWEST COST



VS.

Transport 2km from pit

(The case gets even better from a longer distance)

Fuel cost

0,22 EUR/m³

CO2 emissions incl. machines

1,05 kgCO₂e/m³

Impact of CO2 tax x 100EUR/tCO₂ - > 0,10 EUR/m³



Distributing 1.000m3 slurry by pumping reduces road transport with 64 truck loads between farm and field



Fuel cost

0,66 EUR/m³

CO2 emissions incl. machines

 $2,5 \text{ kgCO}_2\text{e/m}^3$

Impact of CO2 tax x 100EUR/tCO₂ - > 0,28 EUR/m³









Our solutions support the ESG agenda

E

-impact on Environmental

- Reducing CO2 emissions
- Reducing use of fossil fuel
- Nitrogen Utilization
- Extended equipment lifetime
- Increased corps yield

S

-impact on Society/Social

- Nitrogen Utilization
- Limited road operations
- Reduction in truck transports
- Limited odor nuisance from transport and distribution
- Limited dirt on roads
- Safe working conditions

G

-impact on Governance

- Documentation of slurry management
- Documenting efficiency
- Industrial operations











Ammongas A/S



Engineering company specialized in Gas purification

Founded in 2002, Copenhagen

Initially made scrubbersolutions, air and gas cleansing.

From 2011, Ammongas started the journey into biogas upgrading









Ammongas A/S



In 2024 there are **35 employees**, herein **30 engineers**

Ammongas has today designed, built and commissioned +30 biogas upgrading plants across the globe. Including. Scandinavia, Germany and the Unites States.

From delivering small plants at **150 Nm3/h** raw biogas to **10.000 Nm3/h** raw biogas.

Today, **over 50** % of the biomethane in the Danish National gas grid comes from an Ammongas biogas upgrading plant.



European Energy acquired Ammongas in 2022, and in 2023 Ammongas moved into the European Energy Headquarters in Søborg, part of greater Copenhagen.

Ammongas A/S





Product Portfolio

CO2-Separation



CO2-Polishing



CO2-Liquefaction



CO2-Capture



Ammongas Amine Biogas Upgrading

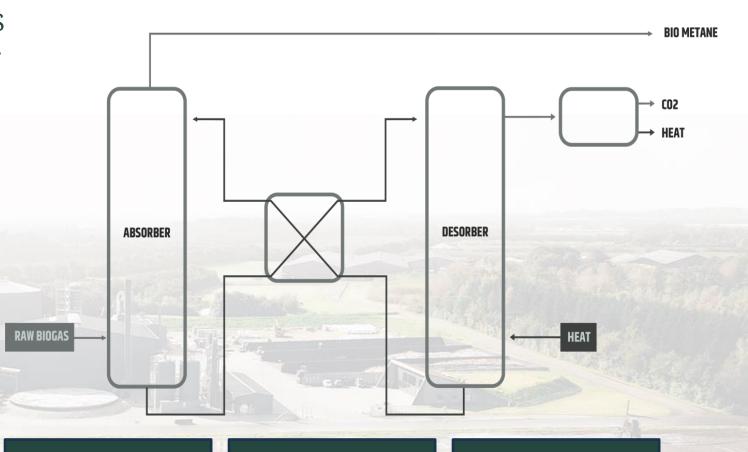


The amine-based chemical absorption process has been used for CO2 and H2S removal—acid gas removal—from gastreating plants since 1950s and are considered to be by far the most developed CO2 capture process.

- developed CO2 capture process.
 Absorption/Desorption of CO₂ using amines
- CO2 reaction with water → carbonic acid

$$CO_2 + H_2O \Leftrightarrow H_2CO_3$$

• Carbonic acid reacts with amine. $RNH_2 + H_2CO_3 \Leftrightarrow RNH_3^+ + HCO_3^-$



Pressureless system

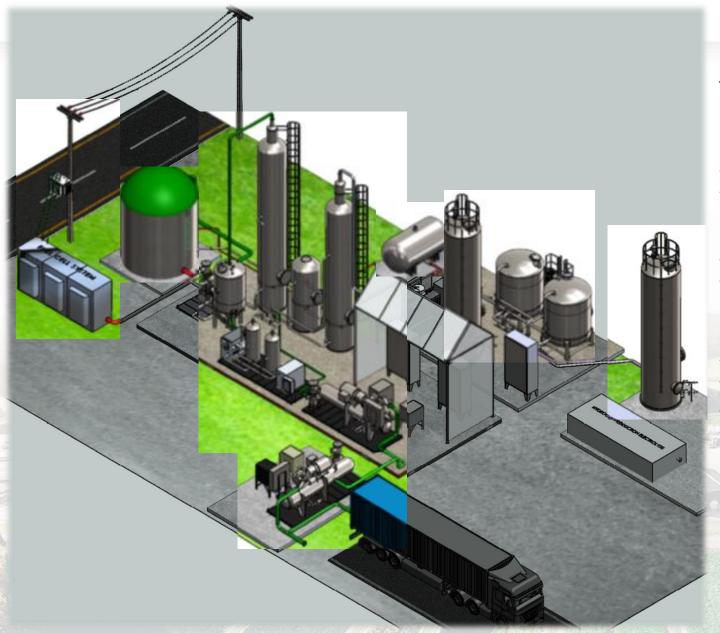
Methane Slip Guarantee: 0.09%

Uptime Average Including service 98.7%.

Heat Recuperation 70-90 %

Typical Biomethane Purity >99%

Nothing is Plug & Play in a Biogas Ecosystem



Upstream & dov equipment

Mass balance & engineering

Boiler & Heat Lo

Compression

H₂S Strategy

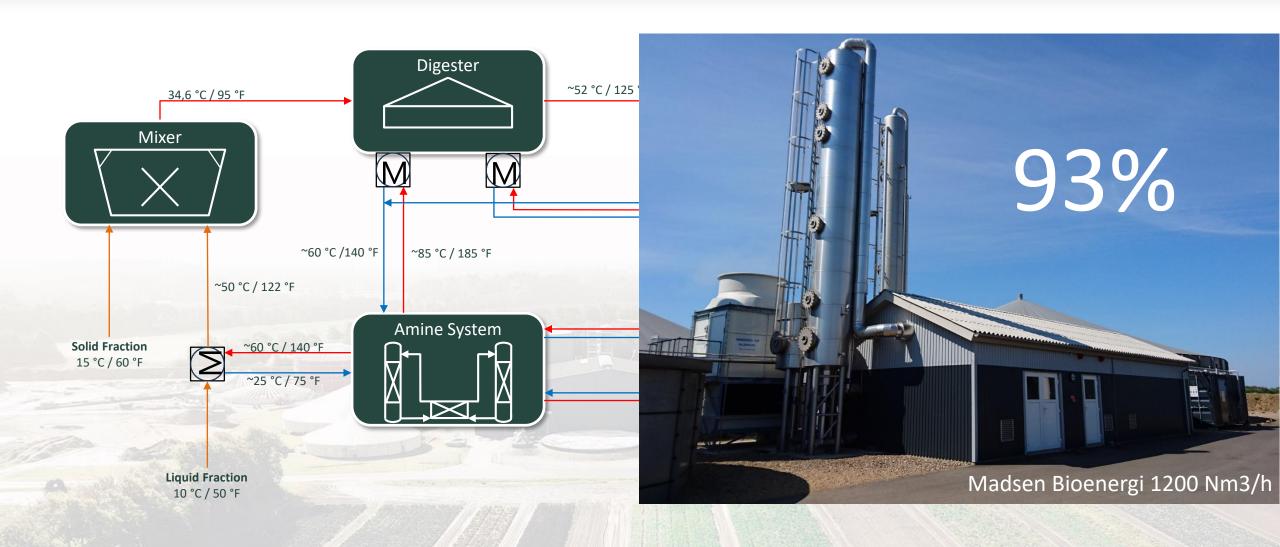
Power, Water &

Connecting pipe conduits

Construction

Heat Recovery Loop

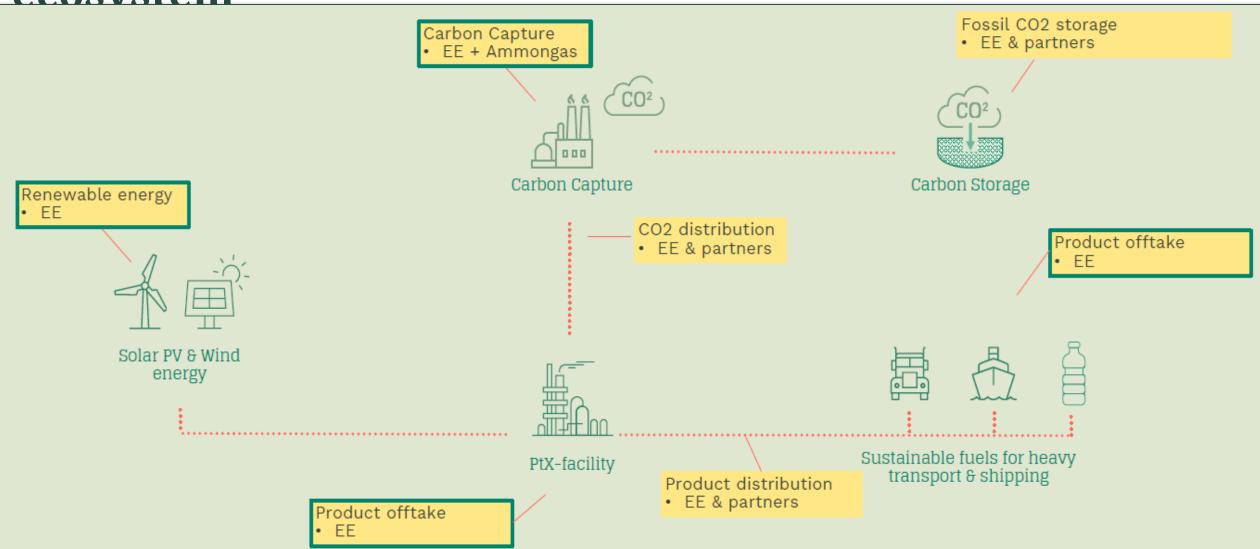




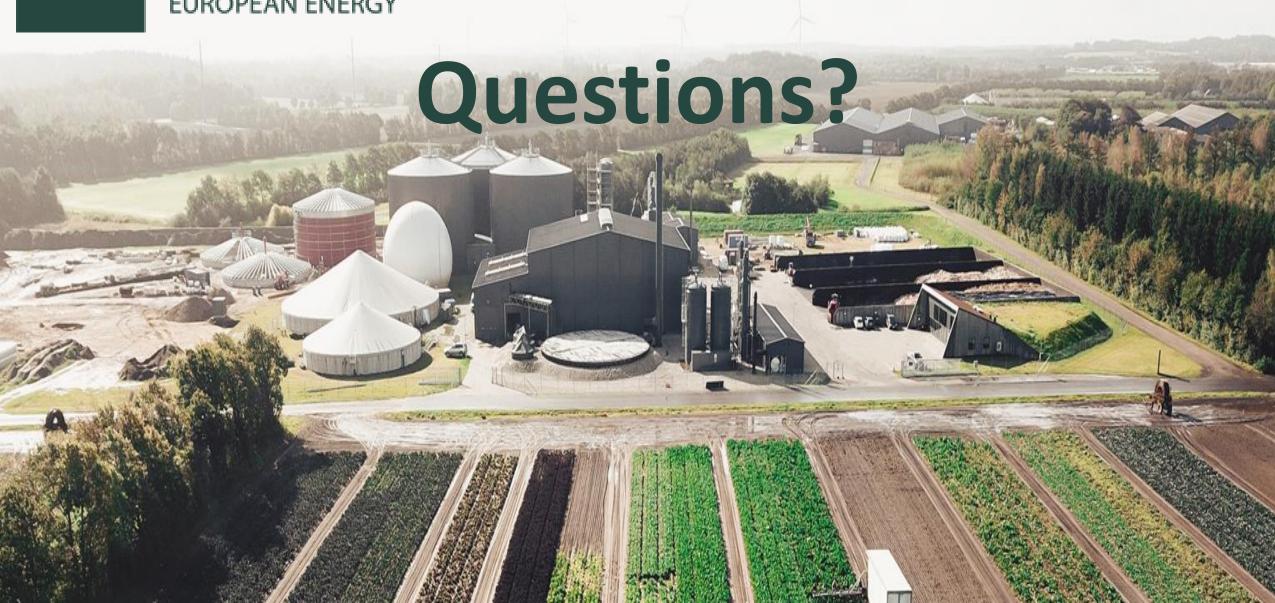
The Biogas Ecosystem can be part of the PtX



ecosystem











ERYK Presentation

Bioenergy Business
Delegation to Poland

Presented by:

Adam Piotrowski



Who we are:

We are an international technical service provider with Danish-Polish DNA. Established in 2004, Eryk specialises in global electrical and mechanical installations for various sectors: from industry and automation, to building installations and energy & renewables. Eryk places a high priority on health and safety, quality, and environmental standards, which is why we are certified in all HSEQ standards. Through initiatives like the African vision project and the international apprenticeship program Eryk promotes sustainability and corporate social responsibility.



year

Projects per

Employees

250+

Project Countries

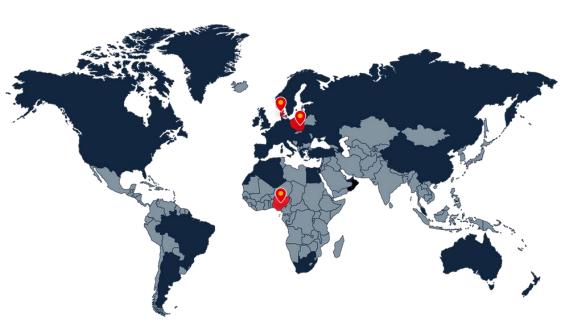
40+



Years on the market



intertek



Offices: Denmark, Poland and Nigeria

Projects



What we offer:

INDUSTRY & AUTOMATION

BUILDING INSTALLATION

ENERGY & RENEWABLES

REMOTE IT SERVICES

Eryk has more than 200 travelling technicians including electricians, mechanics, welders, fitters and engineers.

OUR CORE COMPETENCES:

• Electrical installation • Site management

Welding

Commissioning

Mechanical assembly
 Service & Maintenance

IT services

We have all competence levels from apprentices and juniors, newly graduated, to regular technicians, seniors, team leaders and site managers.



Competences

Technical skills at Eryk

HEAD – Our Strengths:

- Certified specialists
- Skilled & experienced
- Ambitious & motivated

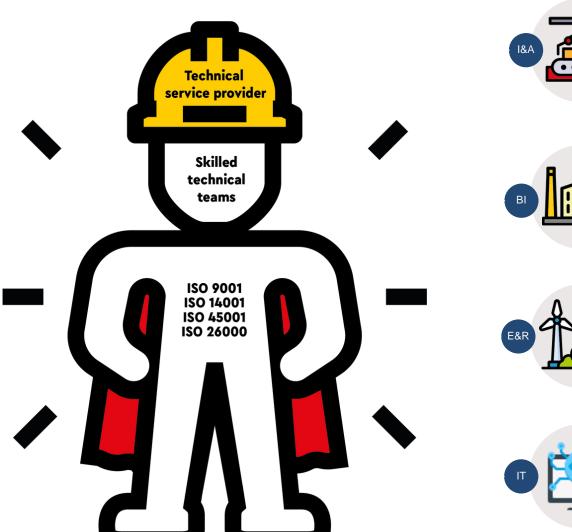
HEART - Our Values:

- Personal responsibility
- Respect
- Equality
- Customer-centrism

FEET - Our Foundation:

- Sustainable Business
- Fair operating practices
- Compliance
- Transparency







Case Studies – Energy & Renewables





Customer: Lillegaarden





Project location: Denmark



Scope of work included cable pulling and cable tray assembly, switchboard assembly, installation of engines and pumps, control of all electrical installation systems, and undisclosed confidential tasks.

New waste incineration plant

Scope of work included all automation related to the energy generation process, from the first waste sorters and conveyor belts, to the energy generation process itself. It also included cable trays, LV and HV cabling, connections both in the field and in control cabinets.

Electrical installations for Power plant

This plant obtains energy from the combustion of plastics, at that time it was a very innovative power plant. Scope of work included cable trays, LV and HV cabling, connections both in the field and in control cabinets.

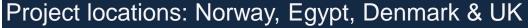
Case Studies - Energy & Renewables





Customer: Vital Energi Ltd, SUKUP Europe A/S, Cimbria Unigrain A/S







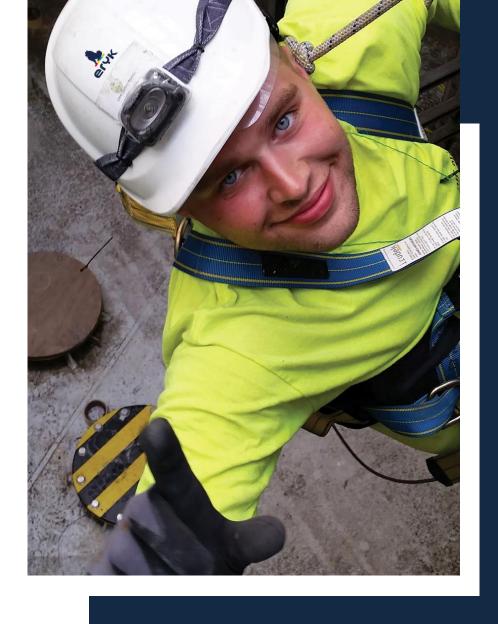
District heating plants

Installation and commissioning of a new Combined Heat and Power plant for Imperial College London, supplying heat to more than 22.000 students. Eryk was responsible for modification works of the main energy center steam system, replacement of a range of plate heat exchangers, replacement of gas engines.



Mechanical installation of Silos infrastructure

Eryk was responsible for reconstruction of steel structures and silos incl. steel erection. critical supervision and site management of silos installations - 23 different locations along the Nile, each including 12 silos (of 25 m height), which makes 276 grain silos in total.



We are proud of our growth from 0 - 300 employees over 20 years. We commit to delivering high quality sevices on time, competitively priced and in full compliance, always prioritising customer satisfaction.

Thank you for your attention



Scan to watch our company movie.

www.eryk.com

"The Danish Biogas Model" - Biogas Production From Agricultural And Organic Waste

Biogas for sustainable food production Goodvalley



Anita Bednarek

Bioenergy Delegation to Poland 19 -22 March 2024

Biogas plants in Goodvalley Poland

8 agricultural biogas plant

 $7,403 \text{ MW}_{e} / 9,838 \text{ MW}_{t}$

32.670.000 m³ agricultural biogas per year

52.000 MWh per year

17.000 householdes

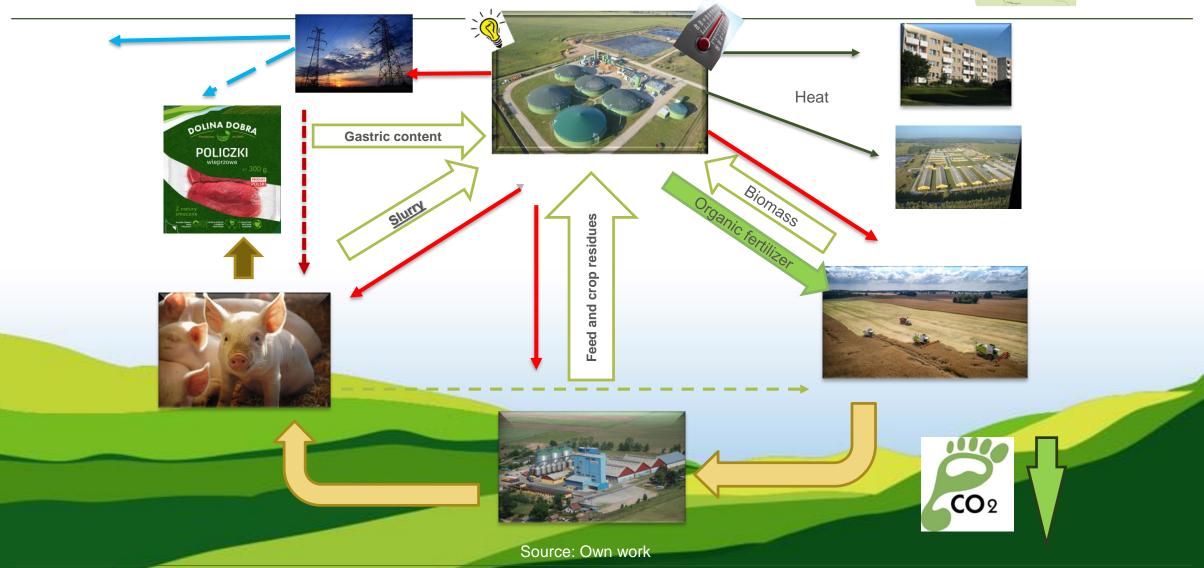
194.000 GJ green heat per year





Goodvalley – since 1994





Biogas plant Pawłówko - first agricultural biogas plant in Poland

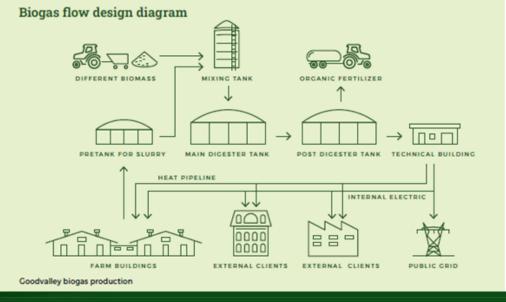


Start of production:

06.2005

Power:

946 kW_{el}/1 004 kWt





Biogas plant in Koczała



Start of production:

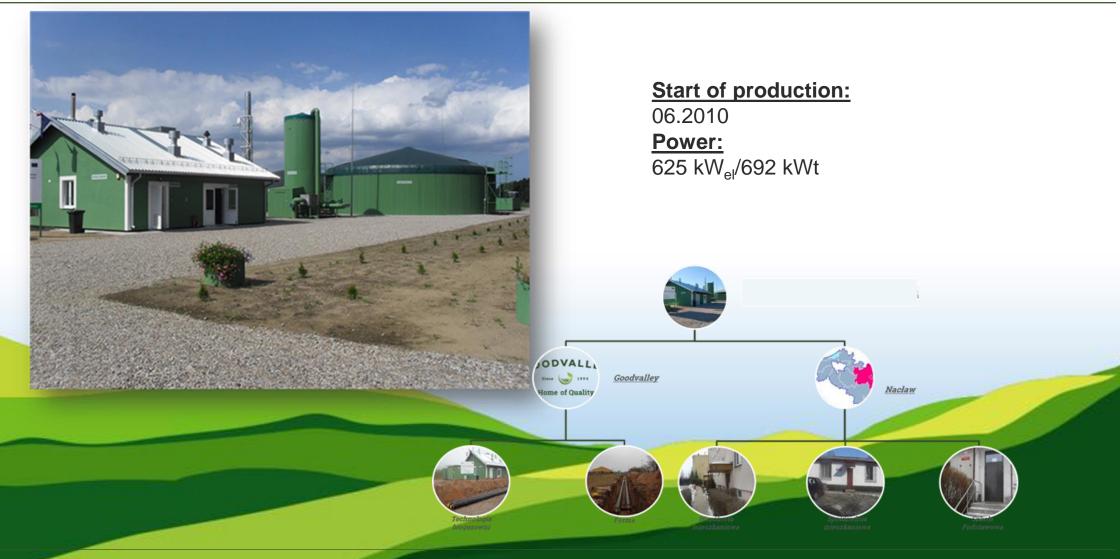
04.2009

Power:

2.126 kW_{el}/2.206 kWt



Biogas plant Nacław – heat for people

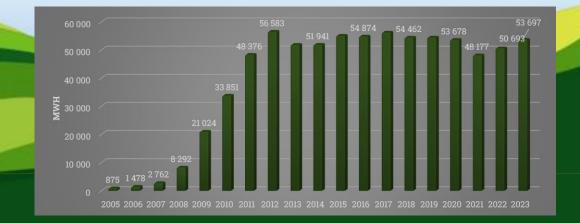


Biogas plant in Uniechówek with the straw briquette line



Thanks to our biogas plants...

- ❖ We have a renewable energy source we are energy self-sufficient -we do not buy energy from outside, and we sell the surplus externally;
- ❖ We produce electricity and heat in cogeneration we heat our buildings and 8 blockflats and a school in one location;
- ❖ We reduce primary energy consumption and increase energy efficiency;
- We optimize the circular economy;
- ❖ We manage agricultural and food residues and by-products, including use of best available techniques (BAT) in the context of pig slurry management;





Thanks to our biogas plants...

- We produce high-quality organic fertilizer we make better use of nitrogen in fertilization;
- We destroy bacteria and pathogens in the fermentation process;
- We destroy weed seeds in fermentation we reduce the use of pesticides;
- We reduce (by approx. 60%) odor associated with fertilizing fields with raw slurry;
- We are a member of the Przechlewski Energy Cluster;





Thanks to our biogas plants...

We reduce greenhouse gas emissions, including:

- we reduce methane emissions by managing e.g. slurry;
- we reduce emissions by disposing of slaughterhouse waste, stomach contents and sewage sludge from food plant;
- we reduce emissions related to replacing heat sources (e.g. oil boilers) with heat from biogas plants;
- we reduce CO₂ corresponding to the amount of electricity sold approx. 8,500 tons of CO₂;
- we reduce emissions related to fertilizing fields (avoided emissions of pollutants from mineral fertilizers) – 1,25 t CO₂/ha



Anita Bednarek
Sustainability and Strategy
Development Manager
Goodvalley

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ISN-PUMPER

Denmark

LSM Pumper ApS

Headquarter
Vraa – Denmark – Europe
Phone +45 98 98 19 00
Info @lsm.dk
www.lsm.dk

Subsidiaries:

LSM Pumpen GmbH

LSM Pumps USA Inc



Denmark - Sigenvej 7 - Vrå 9760

ISN-PUMPERDenmark

About us.:

- LSM founded in 1982, by Leo Sørensen. In 1993, the first hose pump was produced. 10 employees in new buildings from 2008 and added 2018.
- Subsidiaries in Germany and the United States
- Exports account for about 80% of turnover
- Today, 13 different size hose pumps are produced, from 10mm to 300mm diameter hose.
- LSM is worldwide and the only manufacturer of 150, 200 and 300mm hose pumps.



ISN-PUMPER

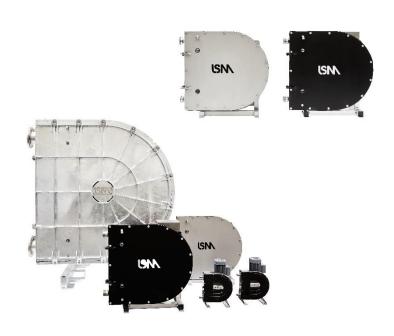
Denmark

Our product.:

Pumps from 10 to 200mm

NEW LSM300 linear hose pump

The LSM product range stretches from 10 – 300mm sizes (30 – 500.000l/h), which means that LSM can handle a wide range of applications: dosing (dosing tomato into mackerel cans), glue for the production of laminated wood, chemicals at waste water treatment plants, high-flow transfer applications within agro- and biogas, mining and fishing industries.



ISN-PUMPERDenmark

Application.:

LSM's hose pumps have a wide range of applications in a number of different industries in Denmark and abroad including:

- Biogas Farmers
- Food Industry
- Fishing Industry (unloading)
- Mining and contractor industry
- Chemical Industry
- Agricultural industry
- Combined heat and power plants
- Treatment plants
- Off-shore







ISNN-PUMPER

Denmark

LSM 10 - LSM 15

Metering hose pump in Polyurethane

Capacity: 0 - 500 l/h

LSM 25 - LSM 100

Hose pump in steel / stainsless steel

Capacity: 1-40 m3/h

LSM 65 - LSM 200

Hose pump in galvanized steel

Capasity: 12 – 300m3/h

LSM125 + LSM300

LINEAR hose pump









ISNN-PUMPER

Long distance manure pumping - 1.9 miles/3 km!

For more information:

Leo Sørensen: +45 4020 3100

Dan Christoffersen: +1 281 771 8045





Long distance manure pumping - 1.9 miles/3 km!

It's common knowledge that cattle manure is hard to pump and thus also a challenge to calculate the pumping capacity/friction and total dynamic head when it needs to be pumped over long distances. The Fair Oaks project in the US has shown us how it's done – and the interest from other farmers and biogas developers has been overwhelming.

We are already working on other projects across the US and seen a huge interest for pumps that can transport manure over long distances other places in the world. We would like to share one of these experiences with you here.

LSM Pumps & Fair Oaks Farms USA

Fair Oaks Farms in Indiana is one of the largest cattle farms in the US with 36,000 dairy cows over 35,000 acres (14,000 hectares) spread across eight properties.

LSM Pumps has its own branch in the U.S. and our colleague over there struck up a conversation with the daily manager of the biogas plant at Pair Dais, who explained that they had had no luck attempting to pump the manure from one of the many barns to the digester site, a distance of 1.9 miles/3 km. The manure contains approx. 5% solid.

Ten years ago they dug 8 of pipeline between the two sites and tried out a venicy of different pumps. Nothing worked to their satisfaction and as a last resort, they were considering a high-pressure pump with a roughly 300 hp motor, which is not fessible in a biogas context due to energy efficiency and energy consumption in general.

We decided at LSM to offer our client at Fair Data a slightly reinforced version of the LSM125 hose pump. It was a lease option with the agreement that they could purchase the pump if they were satisfied with the test result.

The pump was in operation by August 2022 and proved that it could pump the manure for 3 km using a humble 22 hp motor. Naturally, the customer bought the pump.

Work is currently underway to upgrade the installation at Pair Oaks with a further two LSML23 hose pumps, which will pump manure long-distance from two other farms, thereby eliminating the next to move the manure with vacuum trucks. The farm expects the project to be completed in 2024.



The setup at Fair Oaks looks like thi

The collecting lagoon is placed in close proximity to the barns, and holds approx. 10.000m3. The lagoon is equipped with agitators that keeps the

The LSM 125 is installed in a drywell right next to the lagoon connected to the 6" HDPE pipeline going to the digester site 1,9 miles/3km away!

The pump is installed with a pulsating dampener, pressure sensor and leak detection sensor. All is monitored from at the office by the digester.

The key factor is flow velocity and keeping the pressure as low a possible.

Working with the customer, they expressed interest to be able to pump higher flow and with a higher solids content – this upgrade would require a "booster pump" and fall 2023 a secund LSM 125 was installed.

This resulting in higher capacity, and even lower energy consumption!

New project in 2024, will include adding another long distance pipeline at the Fair Oaks farm—we will keep you updated.

ISNN-PUMPER

Substrate and pineapple waste

For more information:

Leo Sørensen: +45 4020 3100

Jørgen Rasmussen: +45 3168 8862





LSM Pumps now in Asia

An exciting assignment completed in the Philippines

LSM Pumps ApS has just installed an LSM125 hose pump for an especially interesting customer in the Philippines on the island General Santos at Polomolok Biogas Plant, Polomolok.

The biogas plant was established four years ago. Its primary function is to convert substrate from processing at DOLE's production plant in Polomolok into biogas. The biogas plant is owned by METPOWER. DOLE transports thousands of canned pineapples all over the world every single day. Substrate and pineapple waste is driven to the plant and the mass is pumped through a mixer tank into three reactors. Each one produces 600 tonnes of biomass daily, which after defibering and crushing is converted into methane and CO2. The methane is sold back to DOLE, which produces steam via its steamer that is then used to help preserve the pineapple product. CO2 is converted into liquid via a cooling process and then resold in tank form to one of the world's largest carbonated drinks manufacturers.

Substrate and pineapple waste is mixed with the added liquid in the tank of Streisal mixers to give it a TS of around



The LSM125 hose pump replaces two other pumps, which could not adequately move the mass.

The installation of the LSM125 pump was completed in mid February and the manager of Polomolok Biogas plant was delighted with the results of the test run.

#slangepumpe #peristalticpump #biogas #lsmpump

STB - Straw To Biogas



Jesper Stræde

Export Sales Manager

- ist@linka.dk
 ist@linka.dk
- **4** + 45 2889 0383





ABOUT LINKA ENERGY

- Linka Energy was established in 1978
- 50 employees divided into sales, project management, construction, production, assembly, service and administration
- Acquisition of Jernforsen in 2018
- Acquisition of Weiss in 2019
- More than 5,000 plants worldwide

Operating philosophy

- World patented combustion technology that ensures total combustion of the fuel
- High operational reliability get unplanned downtime
- Low energy consumption
- Minimum maintenance costs







SOLUTIONS

- Our boiler systems are developed from our own design, based on +40 years of experience
- Biomass boiler systems from 250 kW to 30 MW thermal
- Proven, safe and efficient quality at an affordable investment
- Boiler systems are adhering to strict EU emission legislation
- Segments include:
 - District heating networks
 - Industry and commercial use
 - Agriculture























CONVERT YOUR WASTE INTO FUEL



STRAW - AS EXAMPLE

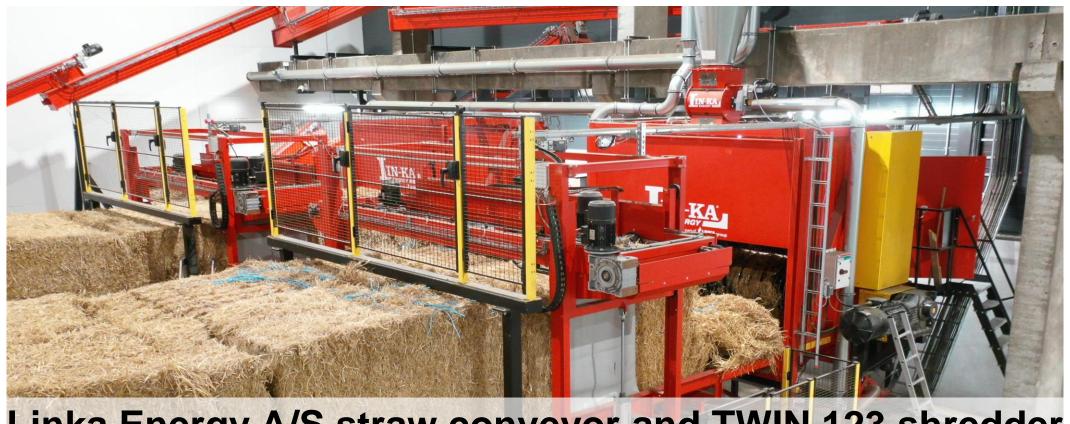
- Straw is CO2-neutral and delivers a closed loop circuit on greenhouse gasses
- Locally grown and locally used and <u>available</u>
- It is easily accessible and often a waste product
- The efficiencies and utilization value are extremely high
- Linka offers boilers from 250kW
 12MW^{thermal} on straw







Linka Shredder



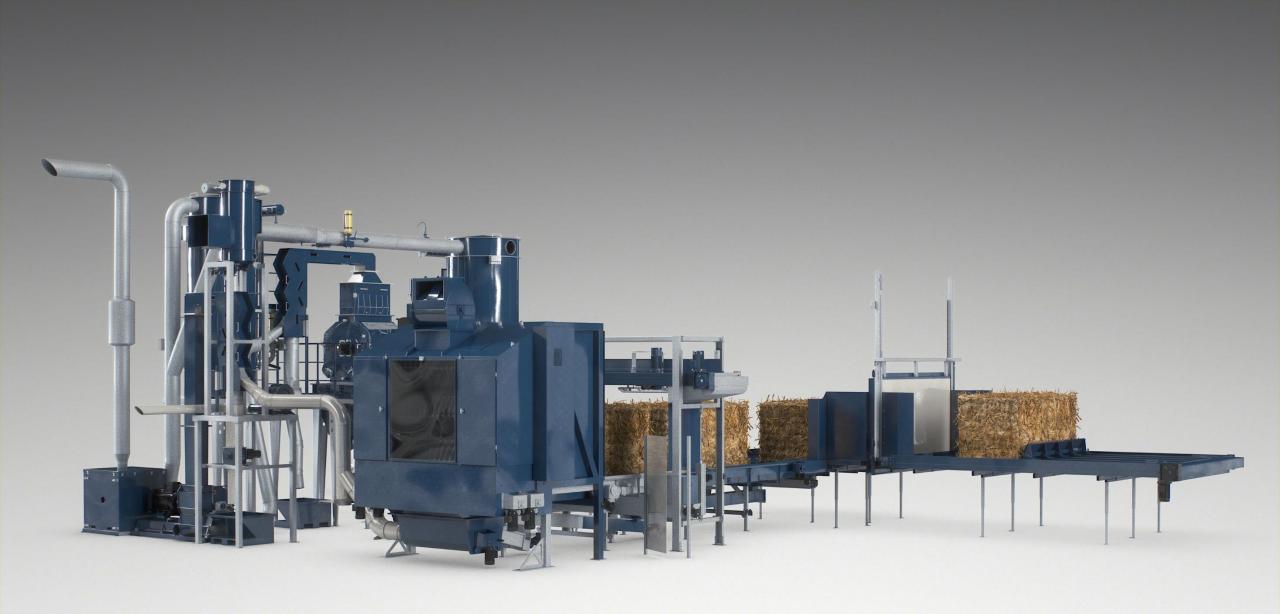














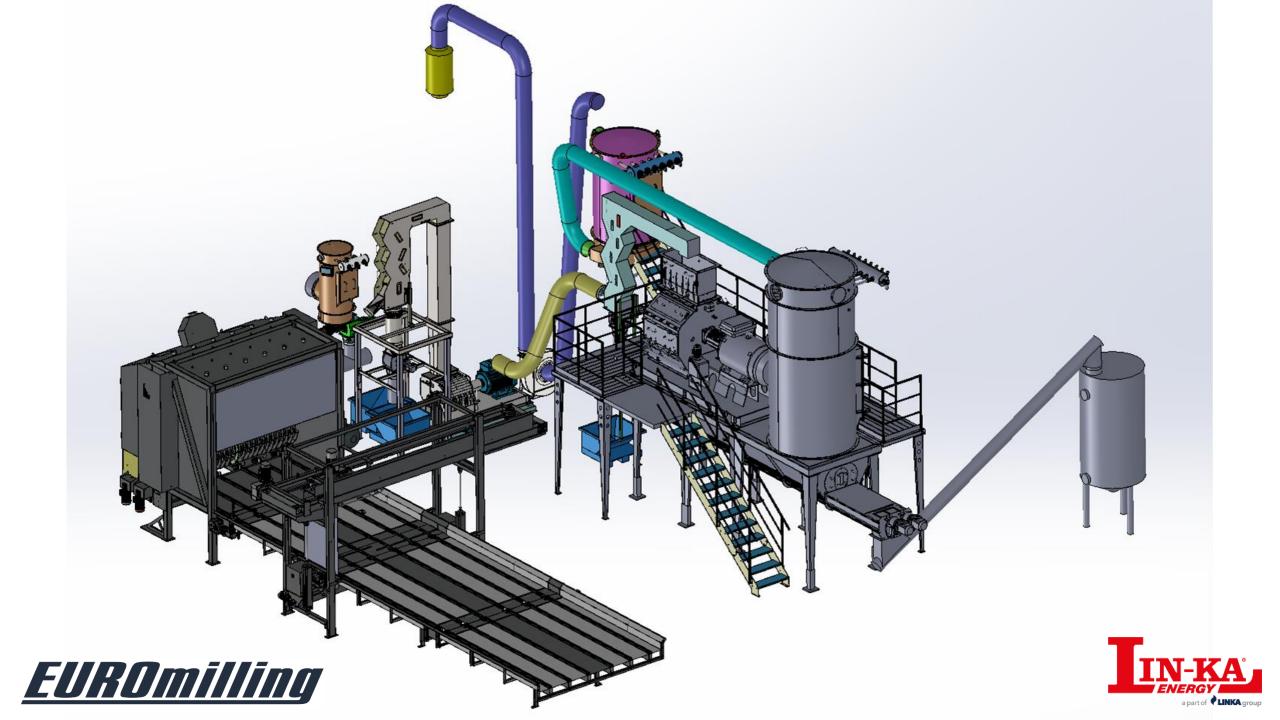




EUROmilling











We are with you all the way

- **✓** Consultancy
- **✓ Development**
- **✓** Support





Sun, wind and biowaste



Are the three natural resources for the production of green energy

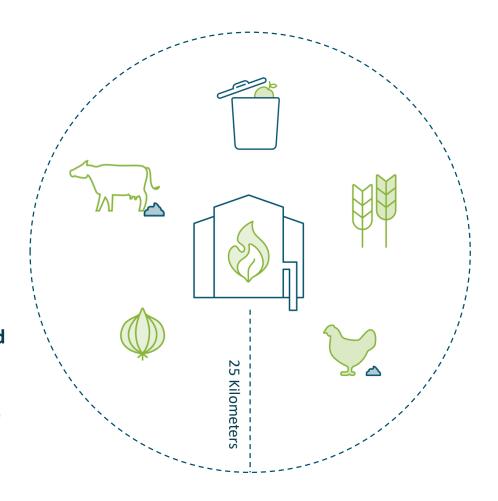
And the global potential is great



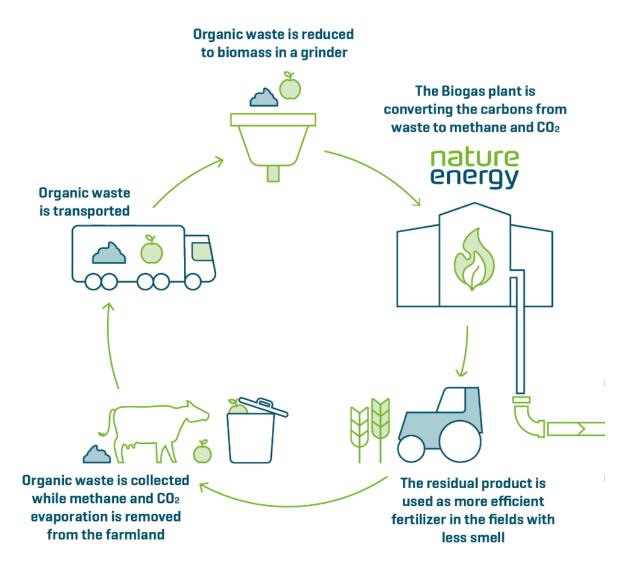


Our plants are centralized and receive feedstock from a large radius

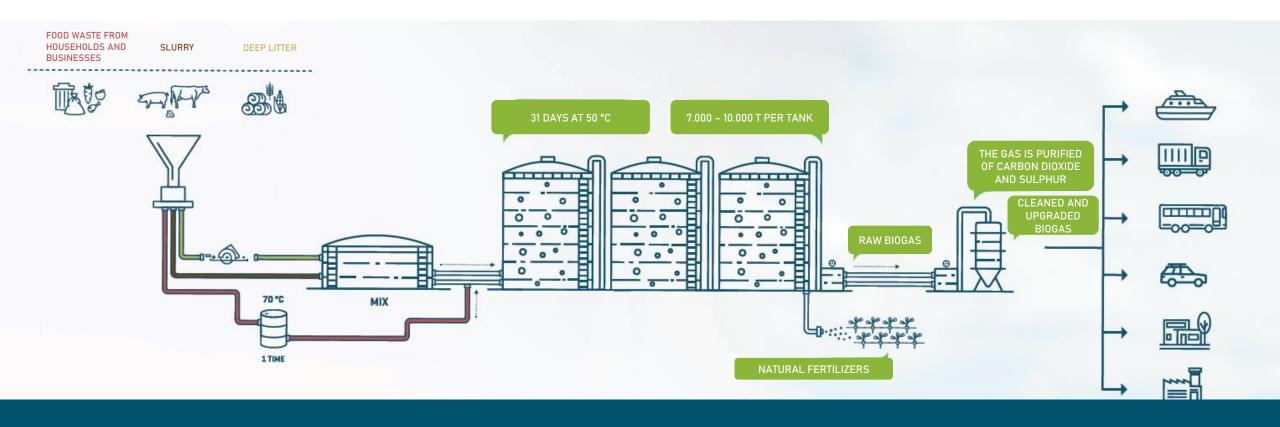
- With our advanced technology, we can process all organic waste within a radius of 25 km
- Our business model takes in manure from several small and medium sized farms (from 200 size herds)
- We continuously improve our design to handle all types of organic waste and manure
- Our upstream processes are circular and indefinite
- One Nature Energy plant can process up to 0.5-1 mil. tons of organic waste and residues annually



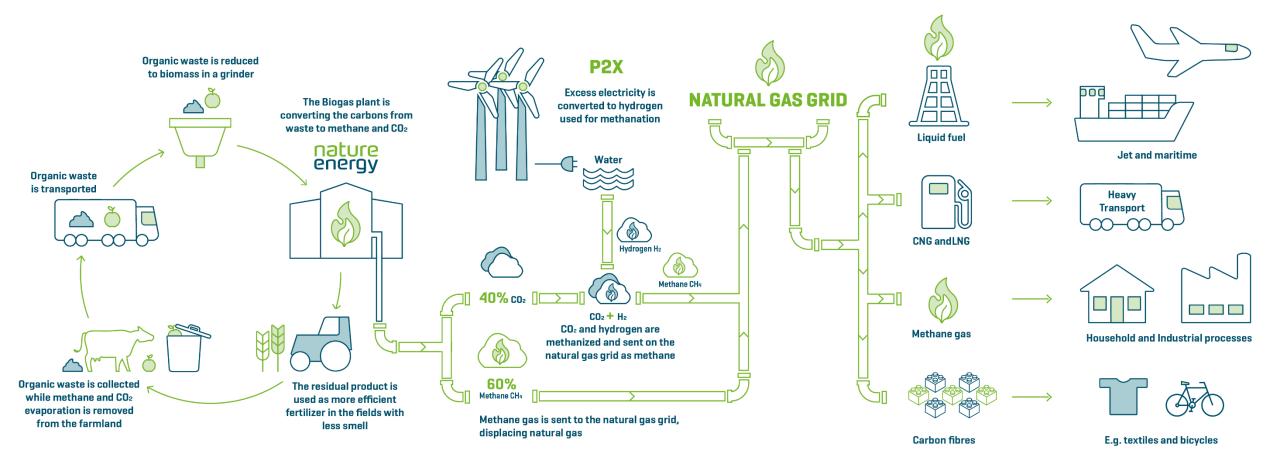
Circular economy



Biogas in a large scale



Circular economy



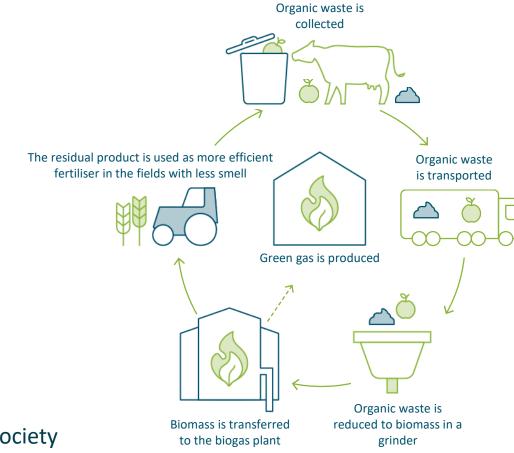


Turning waste to value – benefits with large scale biogas



The farmer

- Better fertilizer that can be spread more easily
- Farmer as energy-supplier
- Possibility to be a co-investor
- Economic savings as the biogas plant handles fertilizer accounting and transport of degassed biomass to the fields





The society

- Biological waste am residues are turned into value
- Local energy production
- Reduced emissions of greenhouse gases
- With a portfolio of biogas plants, we can:
 - · optimize transport,
 - buy large amounts of biomasses when the price is good,
 - optimize the biomass mix,
 - Have experts for specific knowledge



The Municipal

- The municipality takes the final decision on establishment
- Handling of green waste/household waste
- Green fuel for local transport
- Option to carry out continuous control through the given approvals



The Community

- Jobs at the biogas plant
- Jobs in local area
- Reduces smell when spreading the manure
- Other supports to the local community



Thank you for your time!



Morten Enzo Gyllenborg





Renew Energy at a glance



□ Family-owned design and engineering company headquatered in Svendborg, Denmark

Europe served out of Denmark (for now)
Representation in USA
Representation in South Korea
Representation in South Africa







Denmark - World-leading biomethane production



Unbroken Chain

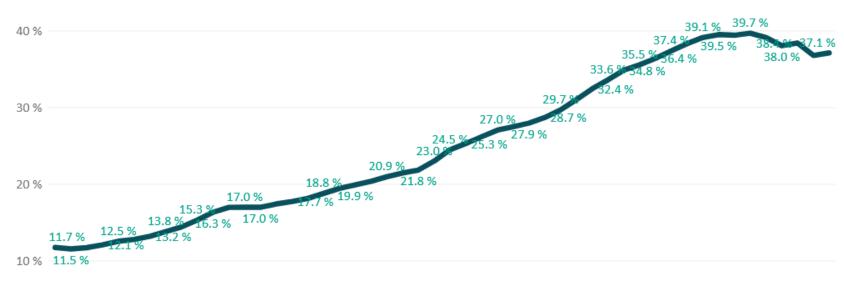
A guarantee of origin (GO) is a certificate documenting and guaranteeing the origin of the renewable energy.

2023: App. 40% biomethane in gas network

Goal in 2030: 100% biomethane in



Share of biomethane in relation to the last 12 months of production and gas consumption





Brief company history





1990 – 2007 Bioscan A/S

2007 – present Renew Energy A/S

Professional backgrounds

Engineering: chemical, mechanical, naval, electrical, environmental, etc.

Energy

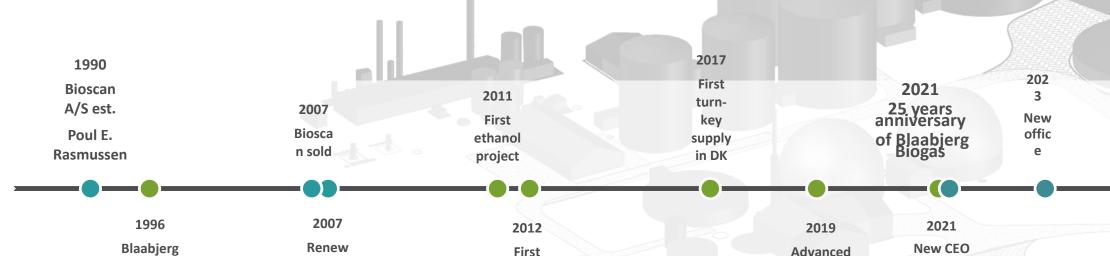
A/S est.

Economics & Commercial

☐ 300+ project design references

Biogas est.

Include but not limited to: Anaerobic digestion, digestate separation, nutrient recovery and utilization of CH4 and CO2



nutrient

recovery in

Morten E.

Gyllenborg

USA

delivery

Engineering Service and Design philosophy



■ Engineering services



Basic engineering package



Detailed engineering and support



Construction supervision



Procurement assistance



Commissioning



Training and documentation



O&M services

☐ Technology agnostic design philosophy



Process integration



Robustness – flexibility and durability



Optimized energy consumption



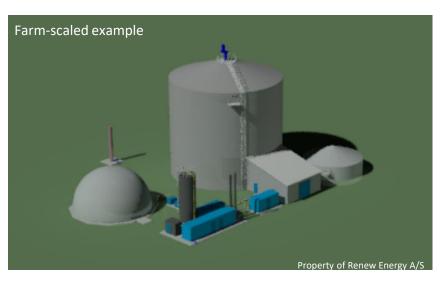
Automation control

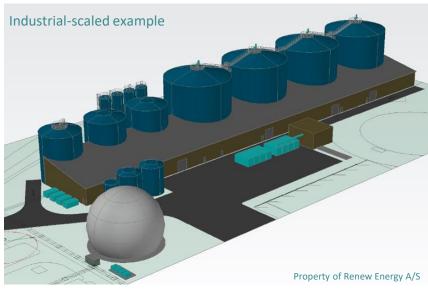


Optimized business case



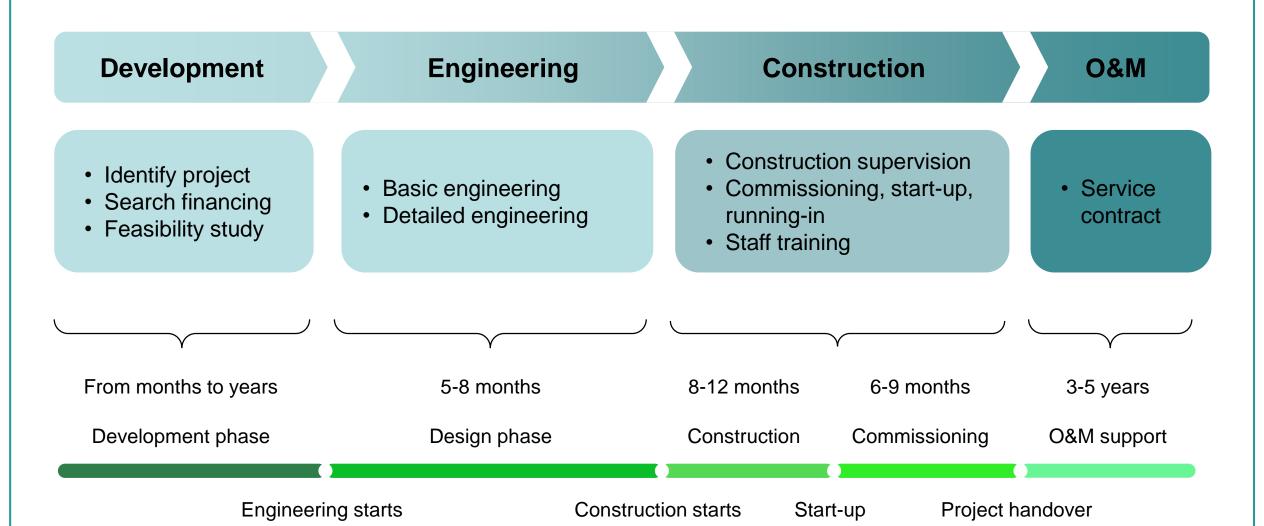
Focusing on Total Cost of Ownership (TCO)





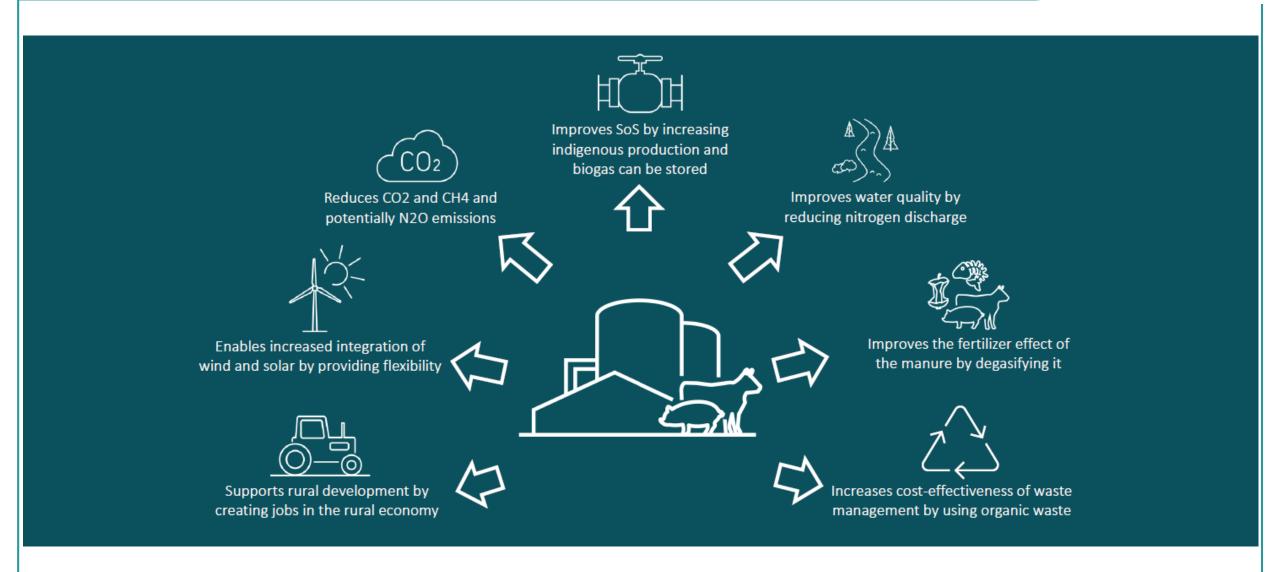
Typical project phases and Milestones





Anaerobic Digestion – the circular economy driver





Value Chain of biogas projects



INPUTRAW MATERIAL

TIPPING FEE OR FEEDSTOCK COST

Household bio-wastes

Industrial bio-wastes

Livestock manures

Agricultural residues

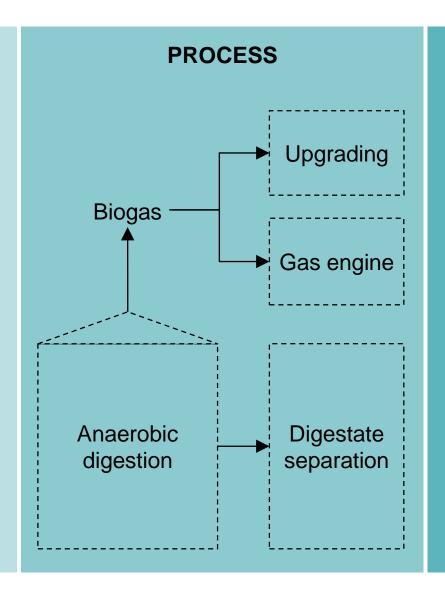
OTHER OPEX DRIVERS

Energy costs

Logistic costs

Employee costs

maintenance costs



OUTPUT PRODUCT



Biomethane (RNG/CRNG/LRNG)



 CO_2



Power



Heat



Solid fertilizer



Biochar



Ammonium sulfate



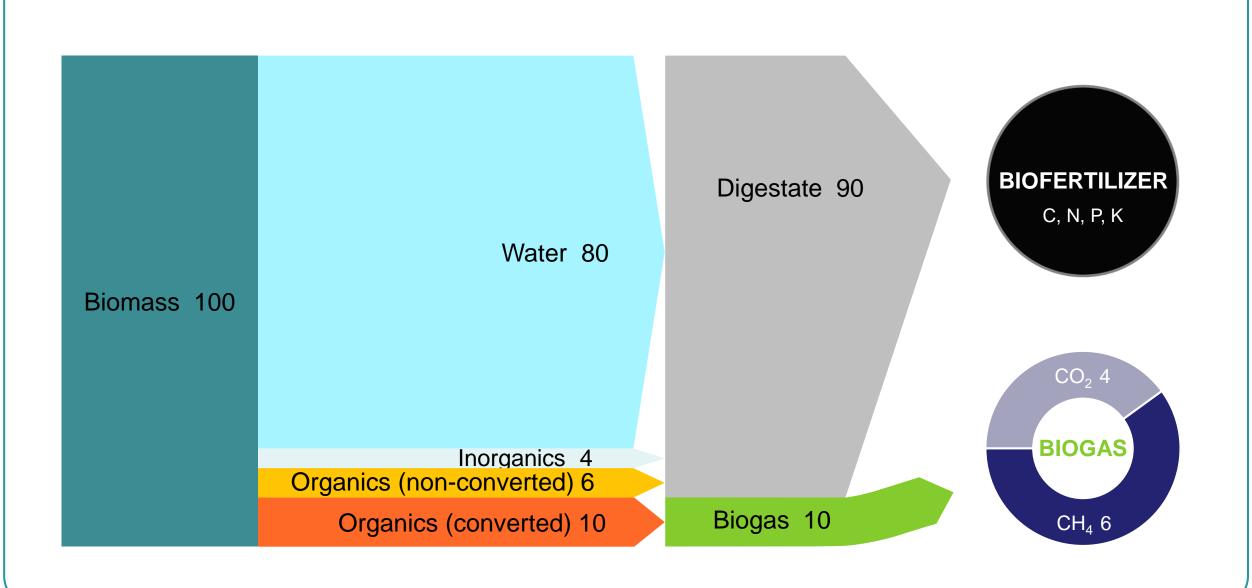
Process water

INCOME / SAVING

- Gas sale
- Carbon credit
- CO₂ utilization
- PtX
- Power sale
- Process heat
- Fertilizers sale
- Carbon sequestration
- Process water
- Irrigation water

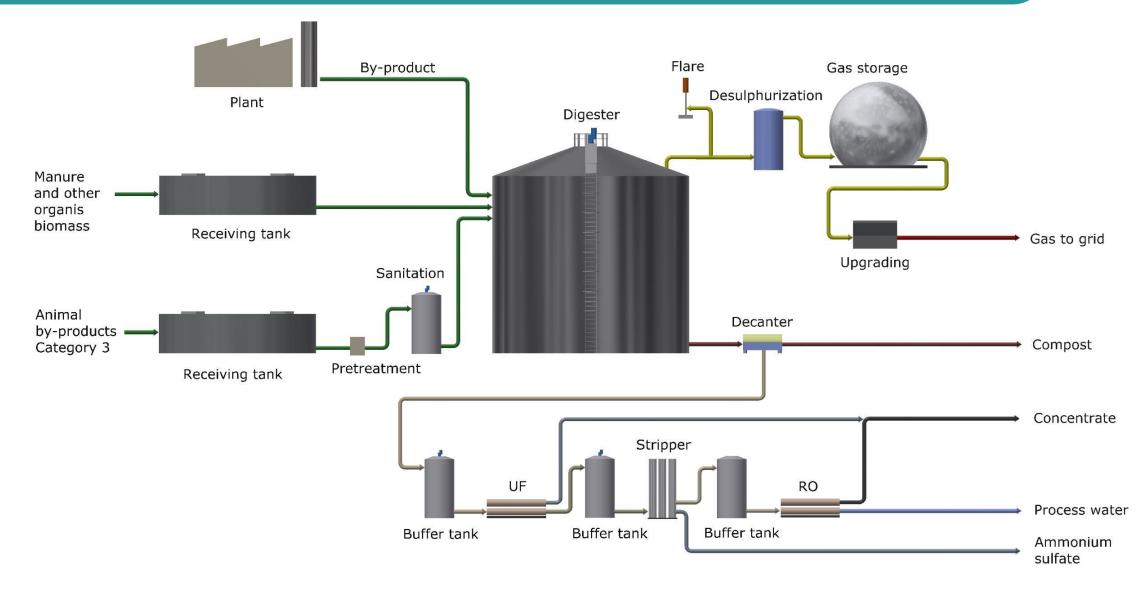
Methane - a (very important) byproduct





Nutrient recovery solution - Tailored fertilizer



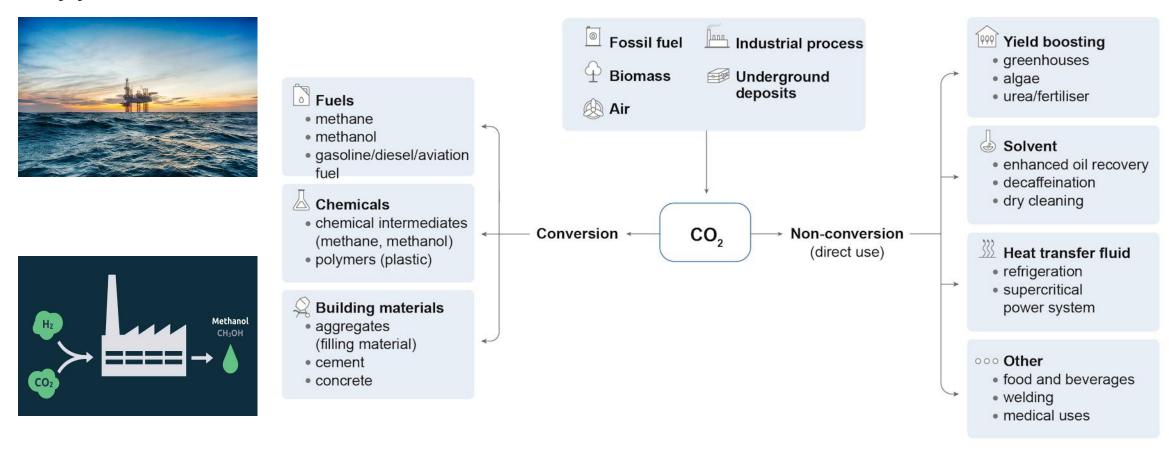


Carbon Capture and Utilization (CCU)



CO2 is a valuable commodity

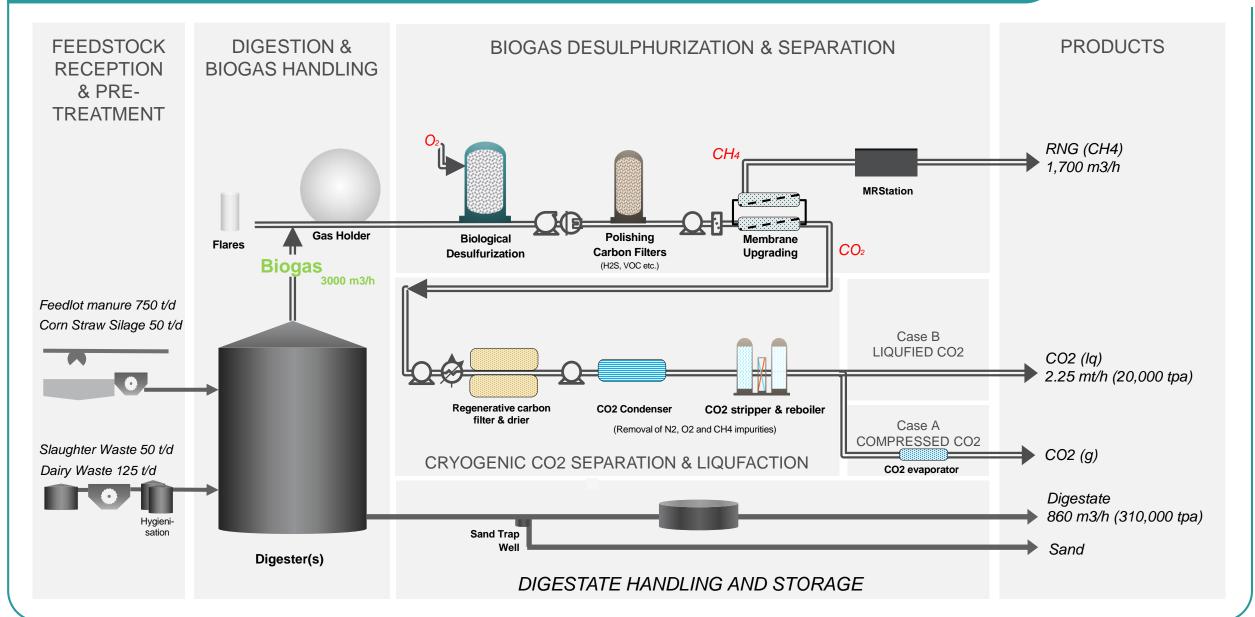
Globally, some 230 million tonnes (Mt) of carbon dioxide are used every year.



*IEA (2019), Putting CO2 to Use, IEA, Paris https://www.iea.org/reports/putting-co2-to-use, Licence: CC BY 4.0

Conceptual Block Flow Diagram

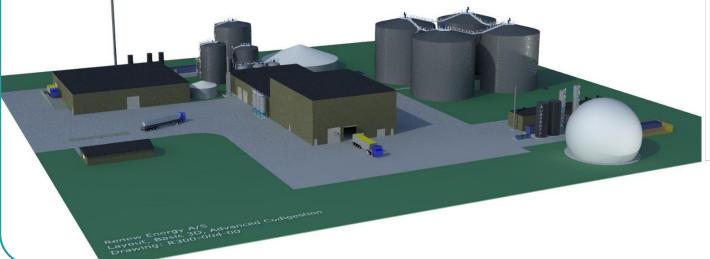


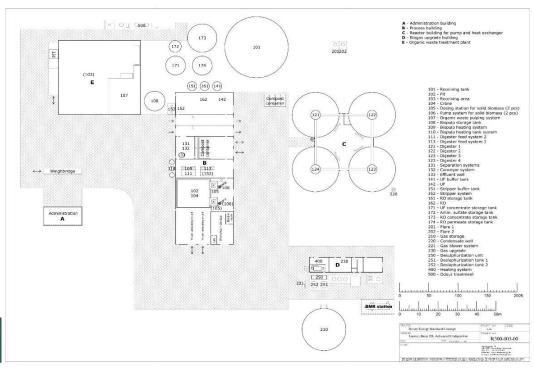


Standard Plant Design - Layout/3D, Advanced Co-digestion



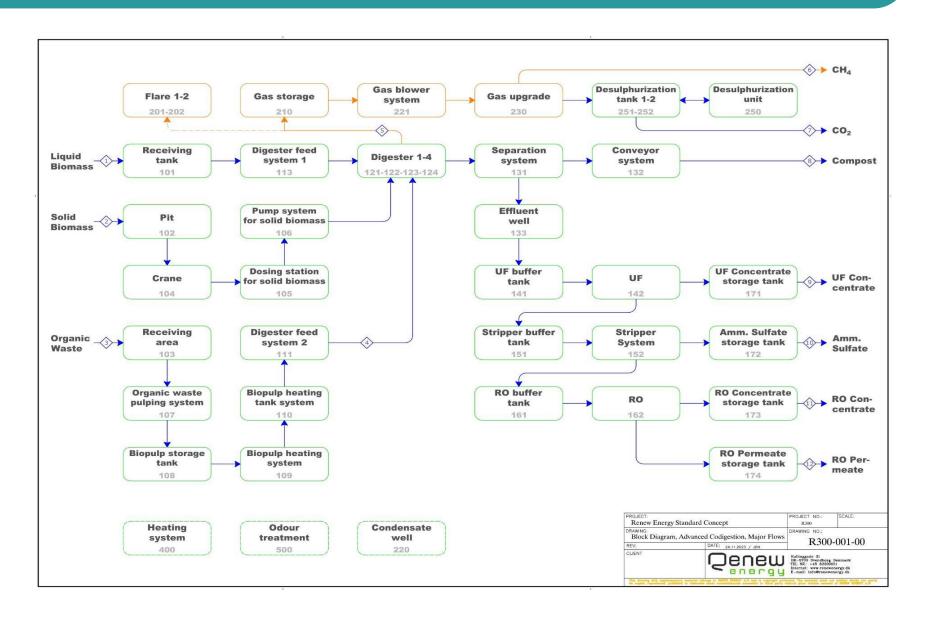
RE's standard plant design covers concepts/solutions that fit from single farm-sized to industrial-scale.





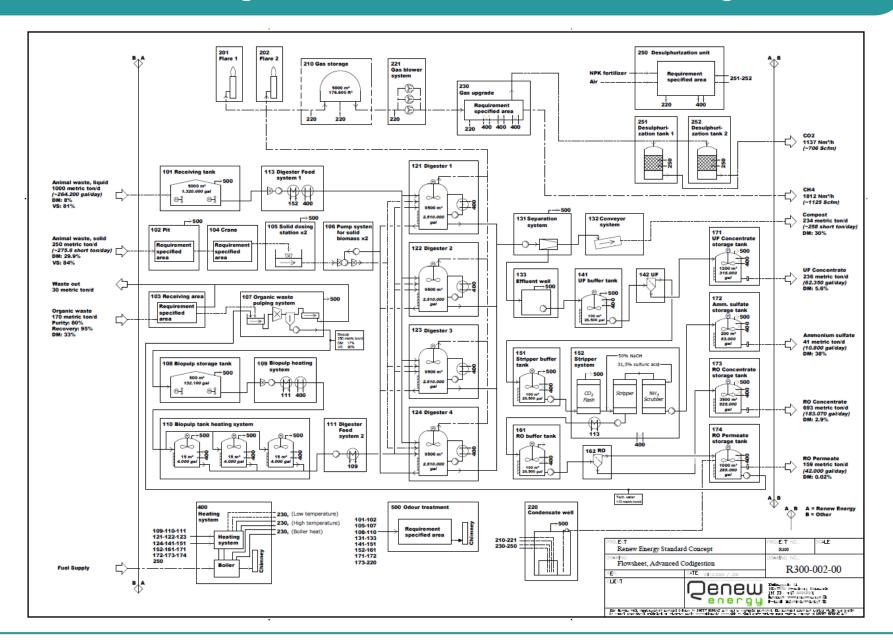
Standard Plant Design - Block Diagram, Advanced Co-digestion





Standard Plant Design - Flowsheet, Advanced Co-digestion





A few selected references



	Cayuga	Fremont	Trenton	Allter Power	Kurana	Blaabjerg
Location/Type	Agri	Codigest	Food only	Codigest	Bioethanol	Codigest
Denmark	✓					✓
EU				✓	✓	
North America	✓	✓	✓			
Others						
Feestock type						
Livestock manures	✓	✓				✓
Industrial bio-wastes		✓	✓	✓	✓	✓
Household bio-wastes		✓	✓			✓
Agricultural residues		✓				✓
Energy product						
СНР		✓	✓	✓	✓	✓
Biomethan	✓					✓
By-Product						
Fertilizer	✓	✓	✓	✓	✓	✓
CO2						

Trenton Biogas, New Jersy, USA.

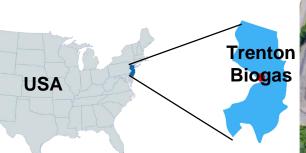


400 tons/day Food waste 3MW power (CHP)

5 000 ton/year ammonium Sulfate

30 000 ton/year solid fertilizer

Construction: 2019











Allter Power, Mełno, Poland



230 tons/day Rye silage, beet pulp, pig manure, vegetable waste, Glycerol

1.6 MW power (CHP)

75.000 ton/year organic fertilizer

Construction: 2011











UAB Kurana, Pasvalys, Lithuania



800 tons/day Whole silage, local industrial by-

product

16.5 MW power (CHP)

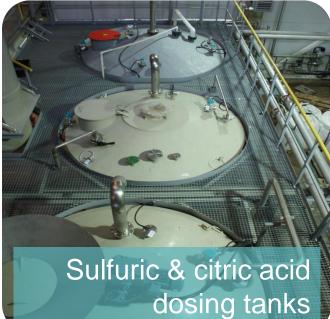
18 000 ton/year solid fertilizer

Construction: 2012









Blaabjerg, Denmark







1 000 tons/day mixed feedstock

13 M m³/year bio-methane

320 000 tons/year digestate fertilizer

Construction: 1996

Expansions & renovations:

2009, 2011, 2015, 2020.





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