



# How to get an interesting green project in a rural area financed

# ENVO



## About ENVO Group A/S

ENVO Group is a Danish Energy Company established in 2011 with focus in alternative ways for obtaining energy. Our areas of action complement each other and ensure our customer the opportunity to obtain sustainable energy for an affordable price.

## Products

To provide the best solution for our customers, we work only with the highest quality products. All our products have the CE certification and are highly scored in quality tests.

The products we offer are:

- Biogas
- Wind Turbines
- LED Lights
- Photovoltaic Systems

## Know-how

ENVO Group has employees from the world largest Wind turbine manufactory, consulting engineer companies and agricultural sector.

## Social Responsibility and Business Ethics

Since the company was created, ENVO Group A/S follows very strictly ethic codes, guided by the International Business Ethics Institute guideline. Being known as an ethic and reliable company is of extreme importance for the leaders of the Group. Social responsibility is also of high priority. Among one area, it can be mentioned, that there is a close connection with the municipality to help reintroducing workers in the labor market again.



## ”Green Growth” 2009:

Venstre (Liberals), Conservative and the Danish People's Party:

*“The role of agriculture as a supplier of green energy should be strengthened. The aim is to up to 50 per cent. of manure in Denmark can be used for green energy in 2020”.*



“Denmark must continue to be one of the leading countries in the green transition. We must influence the other EU countries to set ambitious targets and policies, and Denmark must take a substantial share of the responsibility for meeting these goals”.

“The government's long-term goal is that Denmark is independent of fossil fuels by 2050. Denmark will in 2050 produce renewable energy enough to cover the total Danish energy consumption”.

# Biogas Plants in Denmark by 2012



## Biogas plants in Danmark in 2012:

154 plants

57 sewage/waste water

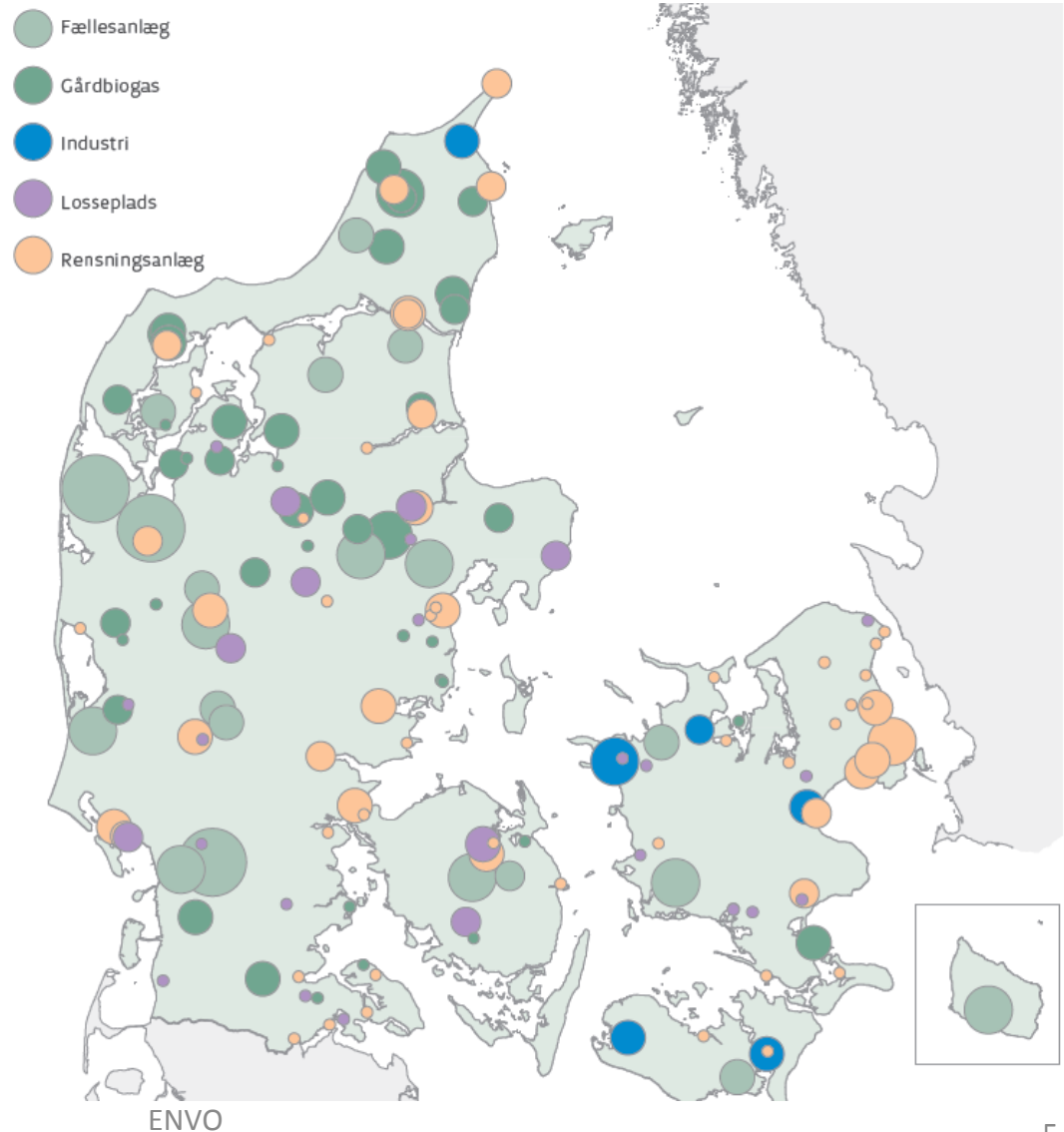
5 industrial/waste water

25 old landfill/waste

21 centralized plants/manure

46 farm plants/manure

7 percent of the manure is used in biogas production





All political parties except Liberal Alliance:

- *“An important challenge for Denmark is to ensure the expansion of biogas. Biogas is useful in the energy system, and the technology reduces environmental problems.”*



- New funding scheme

# Financing

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How to get interesting projects like ENVO Biogas Tønder A/S, which will boost competitiveness, growth and jobs in the agricultural sector and rural areas, financed:

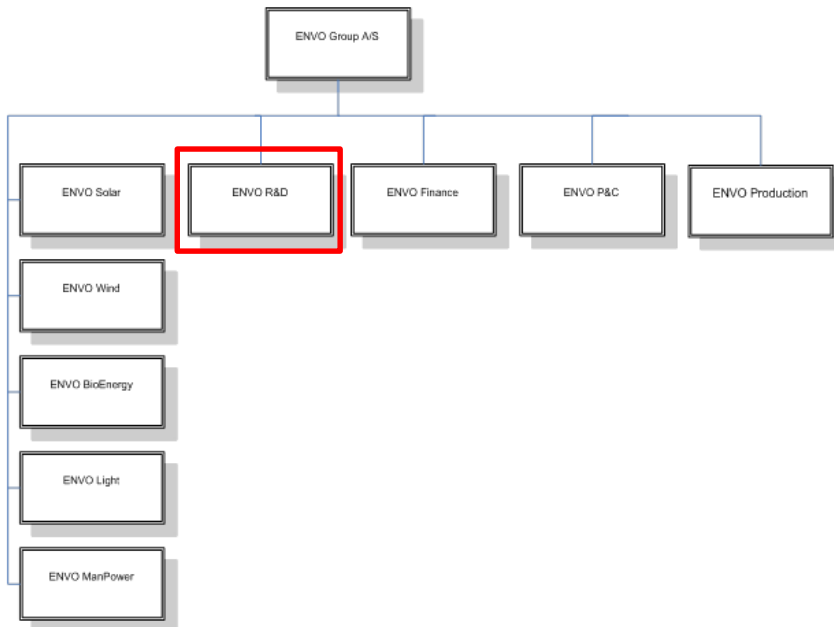
Venture capital

Project Finance (Autum 2015 EIB announced their approval of the project. Awaiting signing)

# ENVO R&D Center



- ENVO Group A/S has signed an agreement with Aabenraa Municipality for a location for a R&D Center and ENVO' Headquarter
- ENVO SCADA people, Biogas Scheduler, Centralized warehouse etc. will be allocated in the Headquarter
- Improving technology for Liquefied Natural Gas for heavy transport, shipping etc.





# ENVO Biogas Tønder – General Information

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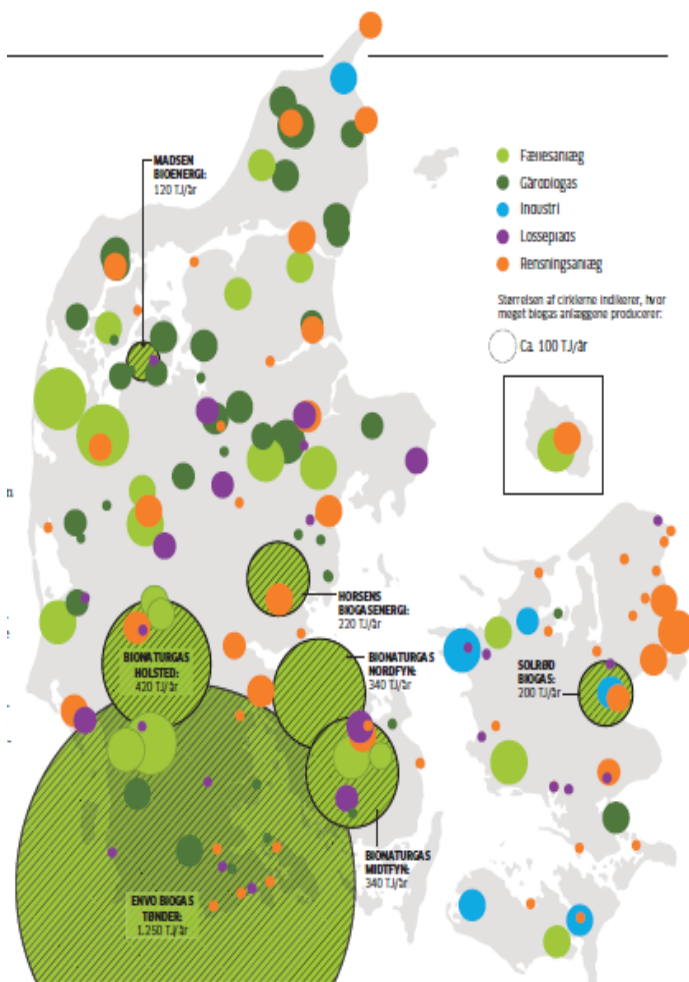
## Workplaces

- The total estimated demand of WC/BC at the Biogas plant is approx. 40-45. beside this is calculated with an impact of approx. 30-35 workplaces outside the Biogas plant

## Advantage

- Reduce methane emissions from 37 mio. tonnes of manure produced each year
- Produce renewable gas which is possible to store and usable as transport fuel
- Obtain a better fertilizing effect of manure
- Reduce unpleasant odor during application of manure on the fields
- Use domestic biomass and waste resources
- Generate jobs in rural areas

# ENVO Biogas Tønder



ENVO Biogas Tønder A/S will be the Largest Biogas plant in Europe

The yearly production is more than 68 million m<sup>3</sup> Biogas or 35 million m<sup>3</sup> Methane.

The plant is the one with the lowest use of own consumption of gas, most Biogas plants are using between 10-14% of there own gas production for heating. ENVO Biogas is at 3,8% and this Consumption includes the gas demand for the yearly transportation with 10 -12 of ENVO' own trucks.

# ENVO Biogas Tønder



Beside ENVO Biogas Tønder A/S, ENVO Group A/S also have ENVO Biogas Aabenraa A/S where the VVM and building permit are approved, therefore this project is ready to get started.

ENVO Biogas Aabenraa is the same size, production, design as ENVO Biogas Tønder A/S.

ENVO Biogas Aabenraa A/S is located in Aabenraa municipality by Kliplev approx. 800 meter from the E45 highway.

Beside this ENVO has also the option for a location 50m from E45 for a Gas tank station for transport.

ENVO Group is planning additional 2-4 plants in the southern part of Denmark and of them the location of the next two are ready

# ENVO Biogas Tønder - Status



ENVO Biogas Tønder A/S the first sod was the 9th of September 2014 with His Royal Highness Prince Joachim, Mayor of Tønder, Mayor of Aabenraa and more than 100 visitors and Journalists.

The building process has started and the plant will start production end 2016



# ENVO Biogas Tønder - Status



- VVM is approved
- Building Permit is issued and approved
- DONG Sales for Gas is Approved
- DONG Grid Connection is Approved
- Air Liquide Gas upgrading is Approved



# ENVO Biogas Aabenraa - Status



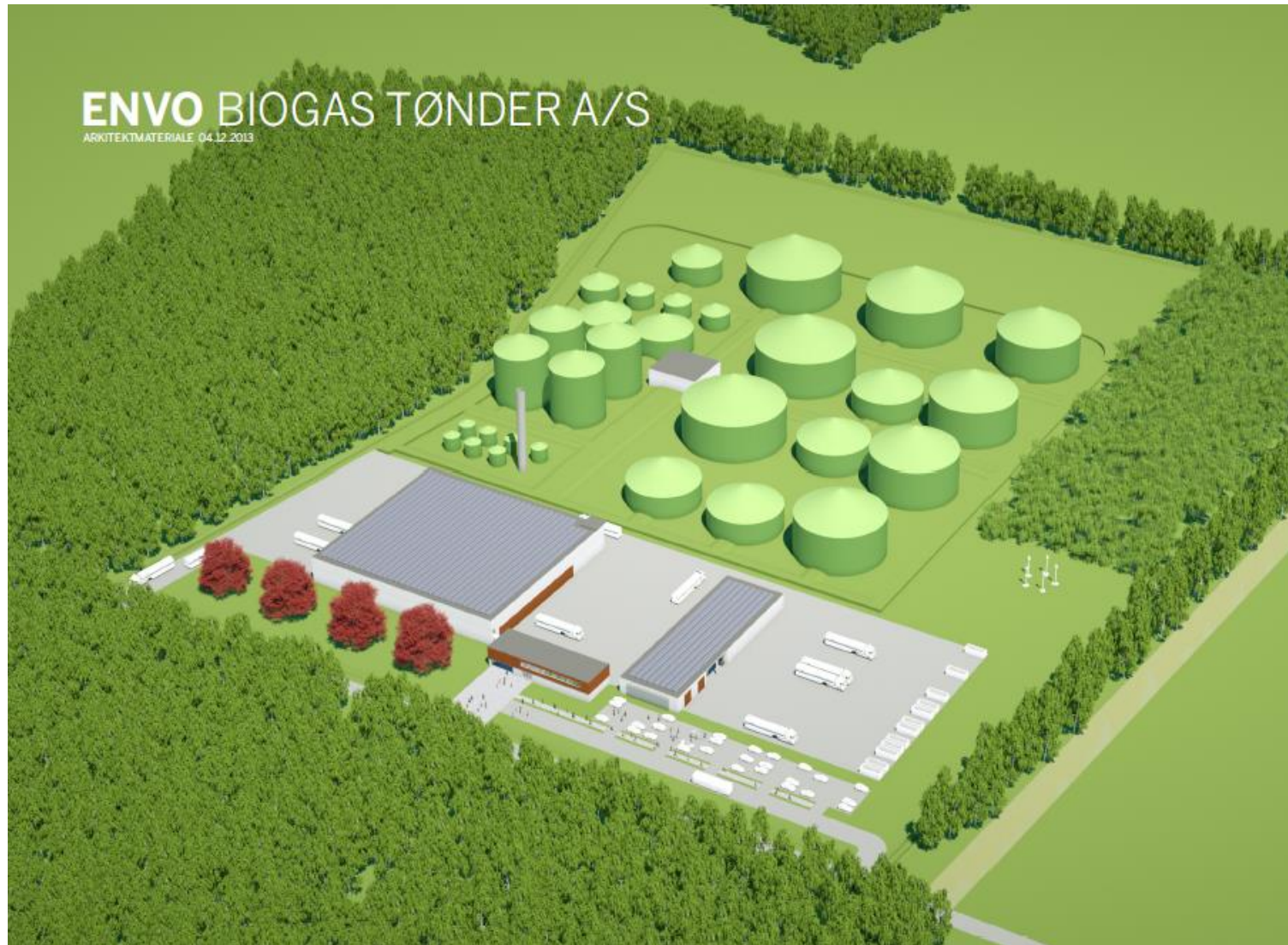
- VVM is approved
- Building permit is approved
- Aabenraa Municipality has approved the new road and will start building the road by April 2016
- DONG Sales for Gas is Approved (same as for Tønder)
- DONG Grid Connection is Approved (Tønder and Aabenraa is one agreement)
- Air Liquide Gas upgrading is Approved (same as for Tønder)



# ENVO Biogas Tønder – General Information



# ENVO Biogas Tønder – General Information





# Thanks

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