

Fremsyn ApS on  
Biomethane and  
Foersom Bioenergi ApS  
September 30 2022

# SUSTAINABLE ENERGY



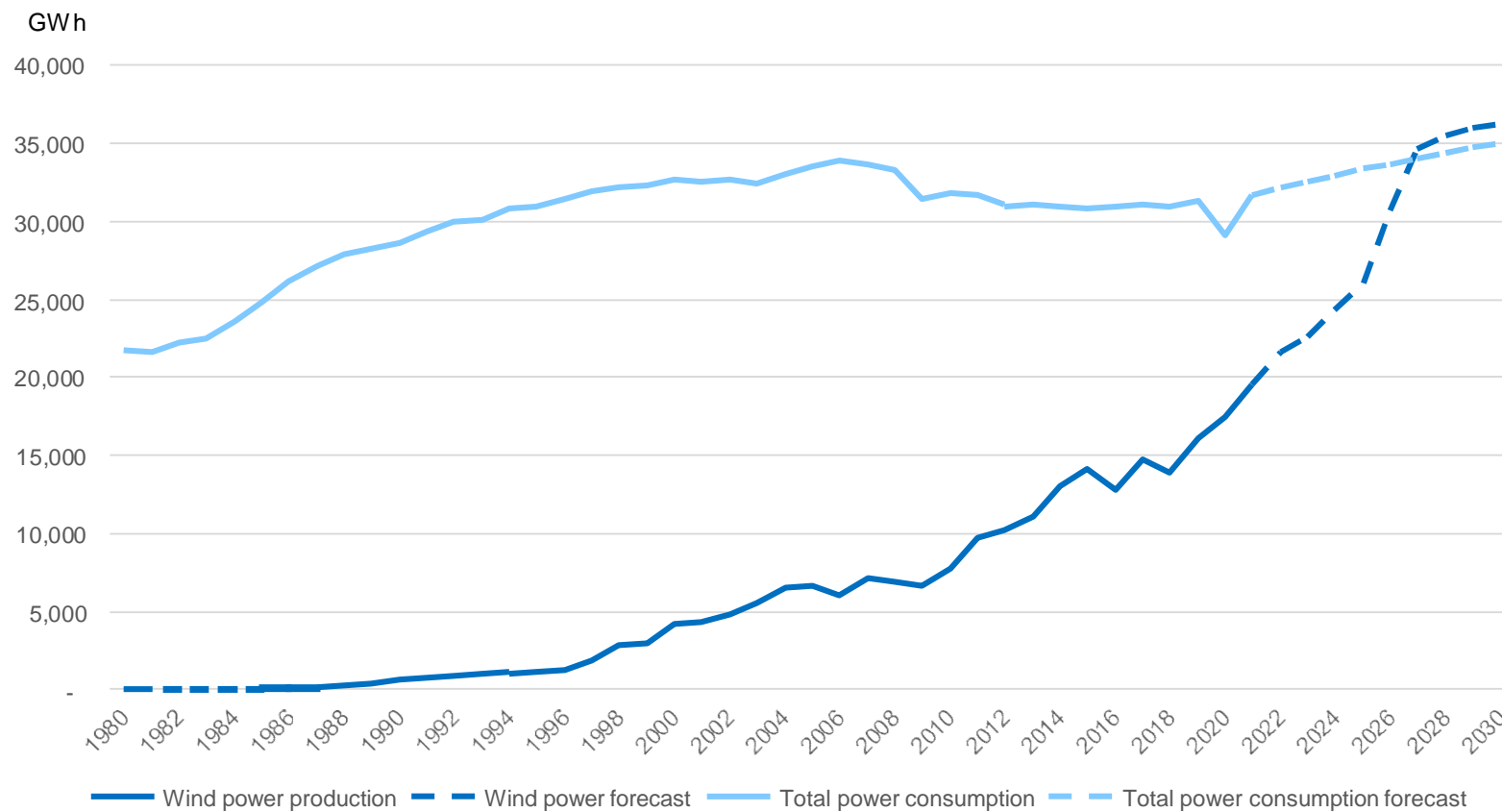
Gedsermøllen (1957)  
24 m wingspan



Tvindmøllen (1975)  
54 m wingspan



Vestas V236 (2022)  
236 m wingspan



# SUSTAINABLE ENERGY



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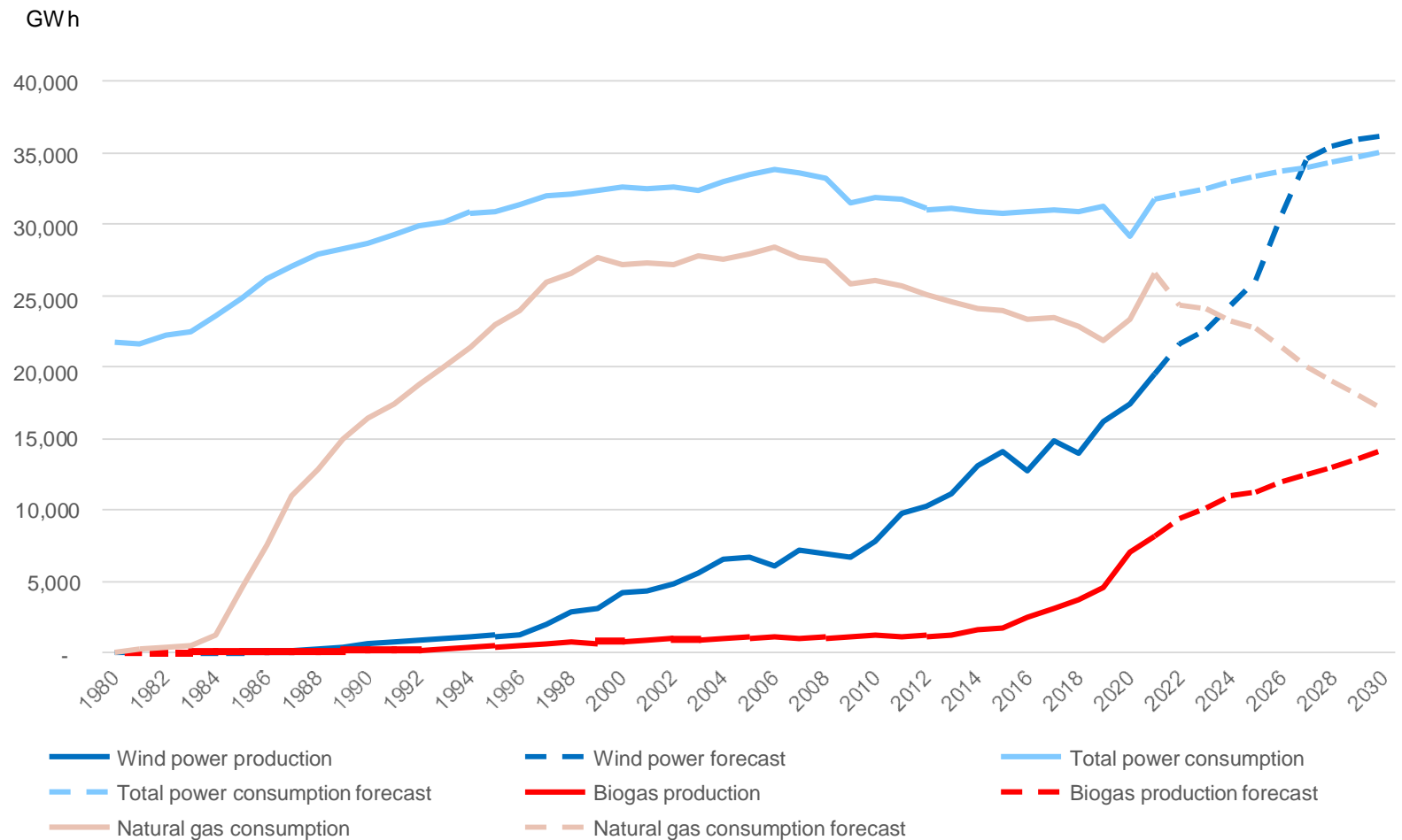
Vestas V236 (2022)  
236 m wingspan



Højbogaard (1974)  
1.200 ton/år

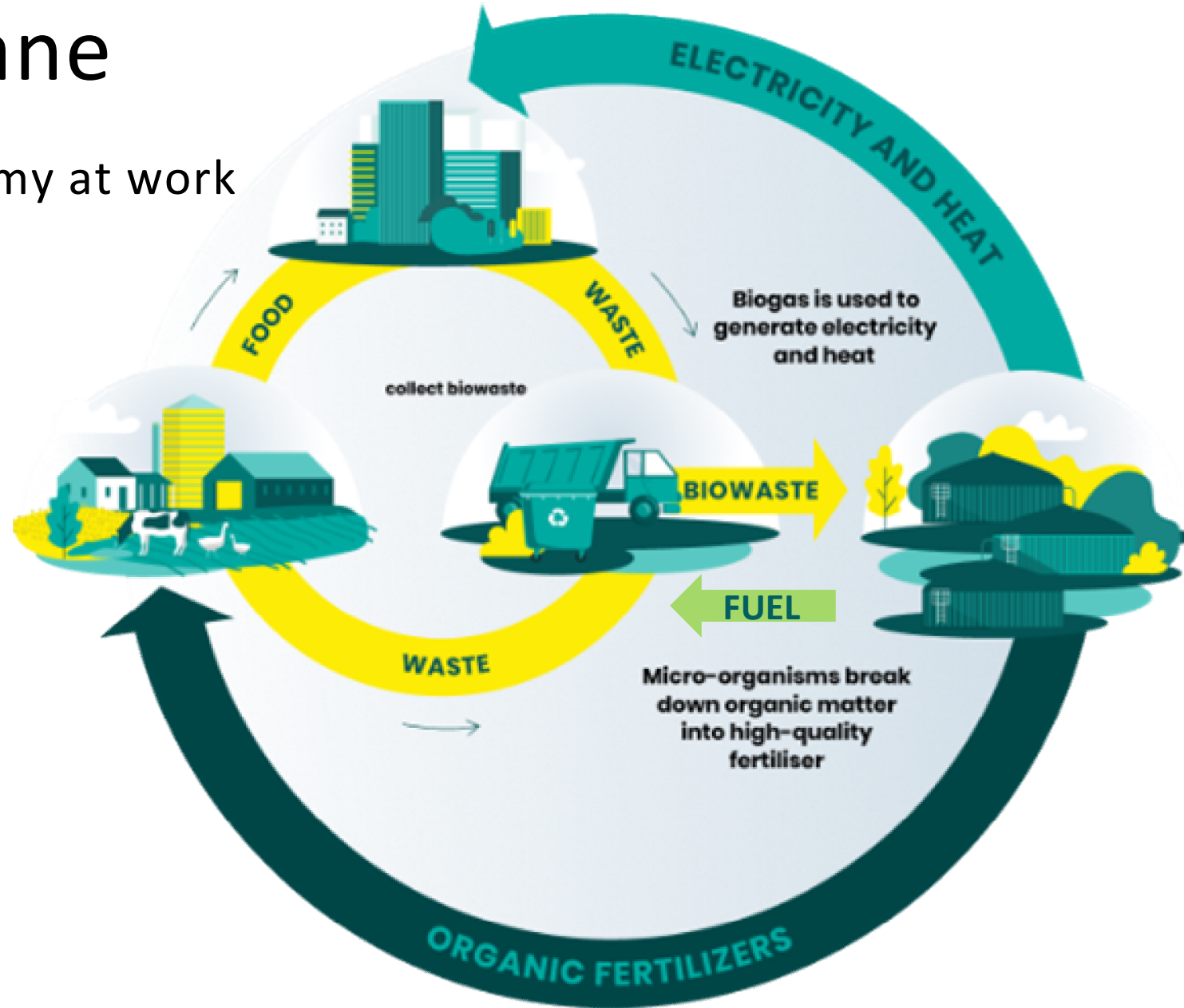


Kliplev (2022)  
900.000 ton/år



# BioMethane

- Circular Economy at work





# THE FUTURE NEEDS BIOGAS



- Wind and solar not enough
  - we need to actively remove CO2 from atmosphere
- There will always be organic waste(resource) streams
  - BioMethane is efficient in handling organic resources from other production, whilst producing valuable nutrients and energy.
  - Center for a range of other technologies that can be added.
- FremSyn
  - Documentation experts
  - We work across the entire value chain
  - Goal: Best in carbon removal



## VISION

We utilize the natural carbon cycle to capture climate emissions of the past

## MISSION

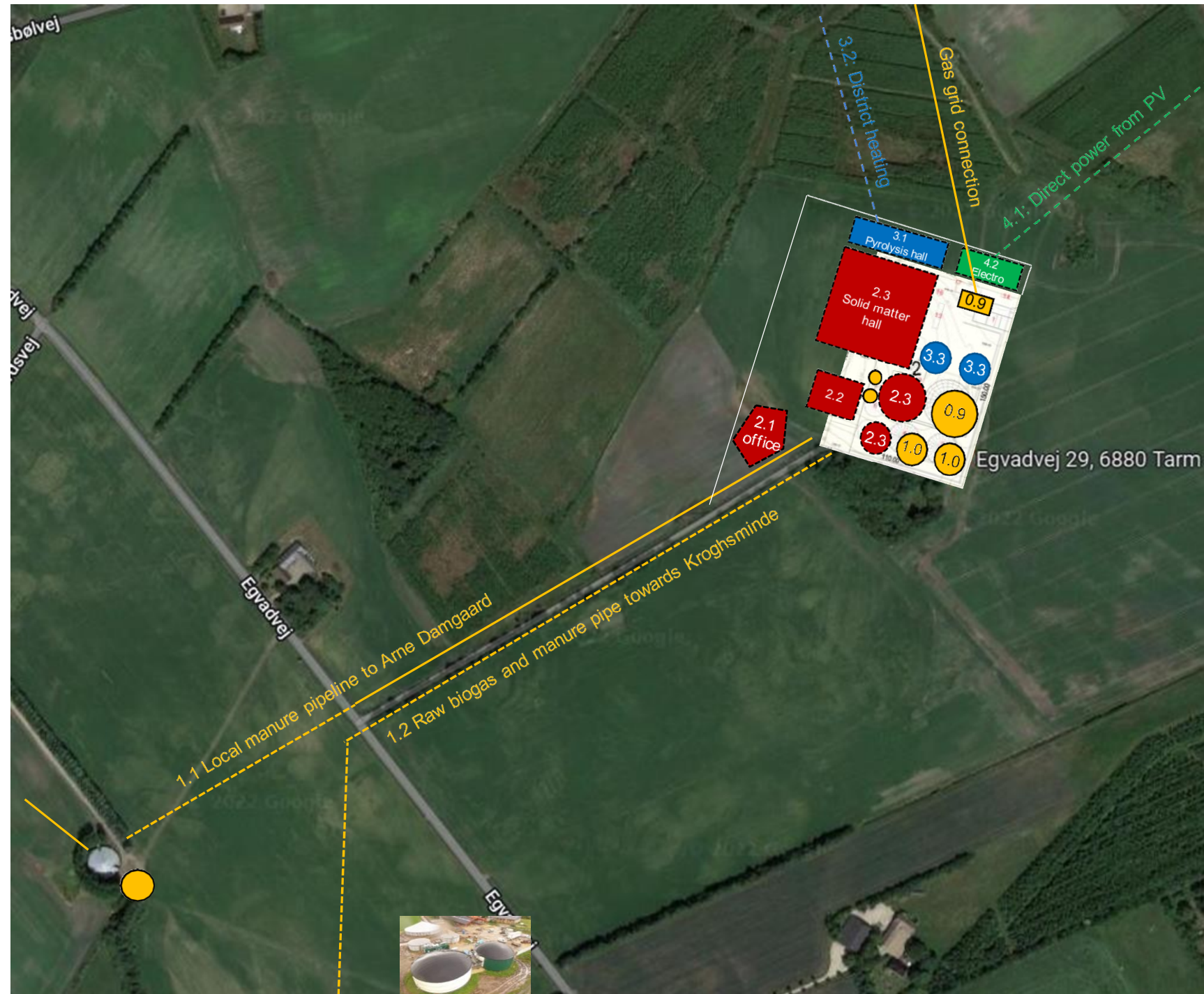
We optimize the value stream to build up the CCR industry

## VALUES

We are a trustworthy and timely business partner

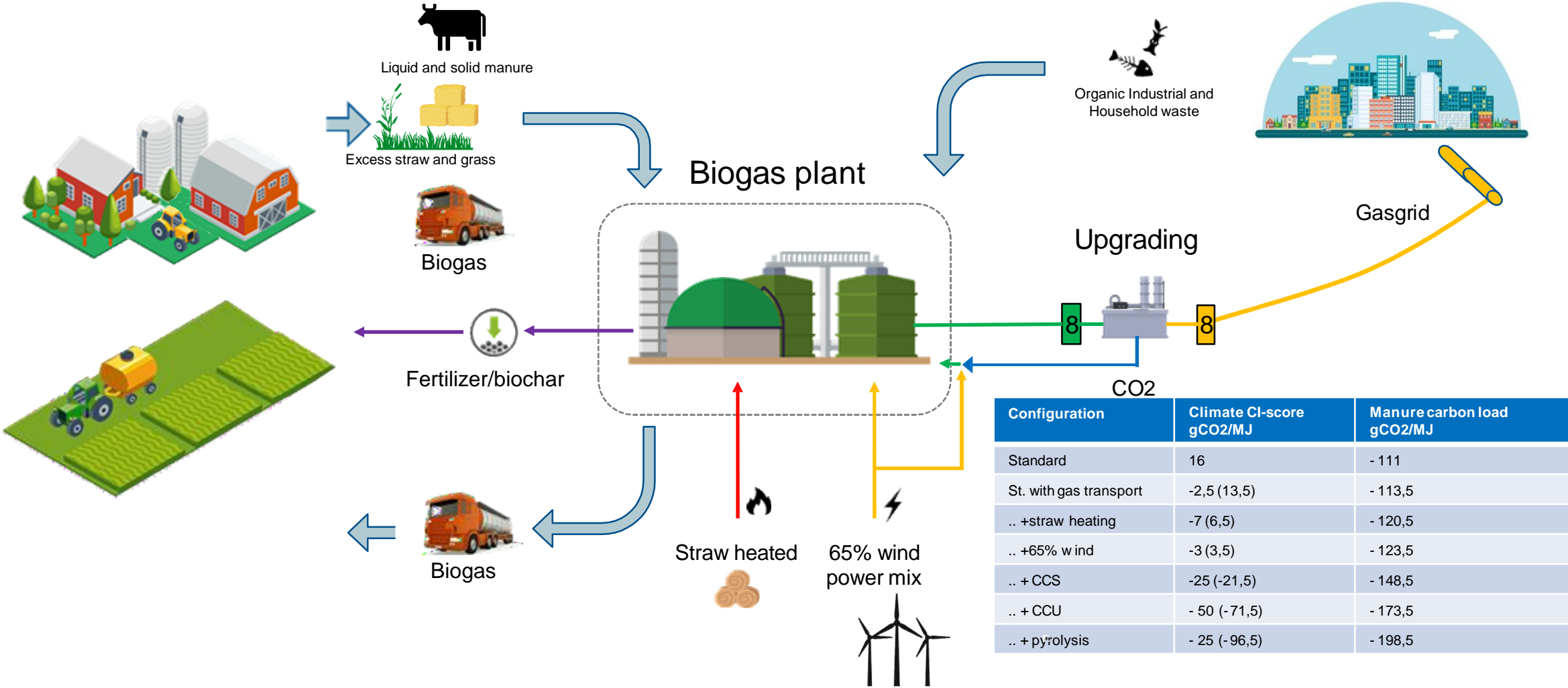
# PLANT DEVELOPMENT

- Phase 1 2022. Maximal use of existing permit
  - 0.9 First tank and upgrading facility ready November 2022
  - 1.0: 70.000 ton/y plant according to environmental permit
  - 1.1: Manure pipe. Plus 15.000 ton/y
  - 1.2: 5 km raw gas pipe from nearby Kroghsminde (+15 GWh/y)
  - 1.3: Landzone application extra biomass +36.500 to 106.800 ton/y and 65 GWh/y
- Phase 2 2023. Office and production expansion
  - 2.1: Offices, auditorium, parking and laboratory
  - 2.2: Liquid manure unloading hall
  - 2.3: Solid matter unloading hall with mixer and workshop
  - 2.4: Expansion of tank capacity with +16.000 m3
  - 2.5: Expansion to 180.000 ton/y and 120 GWh/y
- Phase 3 2024: Pyrolysis and production expansion
  - 3.1: Pyrolysis hall (application sent). Biochar production.
  - 3.2: Integration to Tarm-Ådum district heating system
  - 3.3: +16.000 m3 digester capacity.
  - 3.4: Expansion to 300.000 ton/y and 190 GWh/y
- Phase 4 2025: PV uplink and e-methane
  - 4.1: Uplink to nearby PV park
  - 4.2: Electrolyser and e-methane production
  - 4.3: 80 GWh e-methane to 270 GWh/y





# NEGATIVE CARBON EMISSIONS



# LOCAL CONNECTION

- ◆ Project underway since 2015
- ◆ No complaints during permitting
- ◆ Proud sponsors of local community
- ◆ Deliveries from 9 local farmers  
- more on waiting list





# THANK YOU FOR YOUR ATTENTION

