

## Bio2G – A commercial-scale gasification to SNG plant

Dr. Björn Fredriksson Möller  
E.ON Gasification Development AB

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# Bio2G gasification in brief – an added value solution for large DH networks; gas & heat

## Key facts

- Total capacity of 200 MW & annual production of 1,6 TWh biogas
- Total investment: ~450 MEUR
- “Lighthouse” candidate for first-mover support, i.e. NER300, EIBI, etc
- Fuel supply roughly 1 million tonnes biomass annually

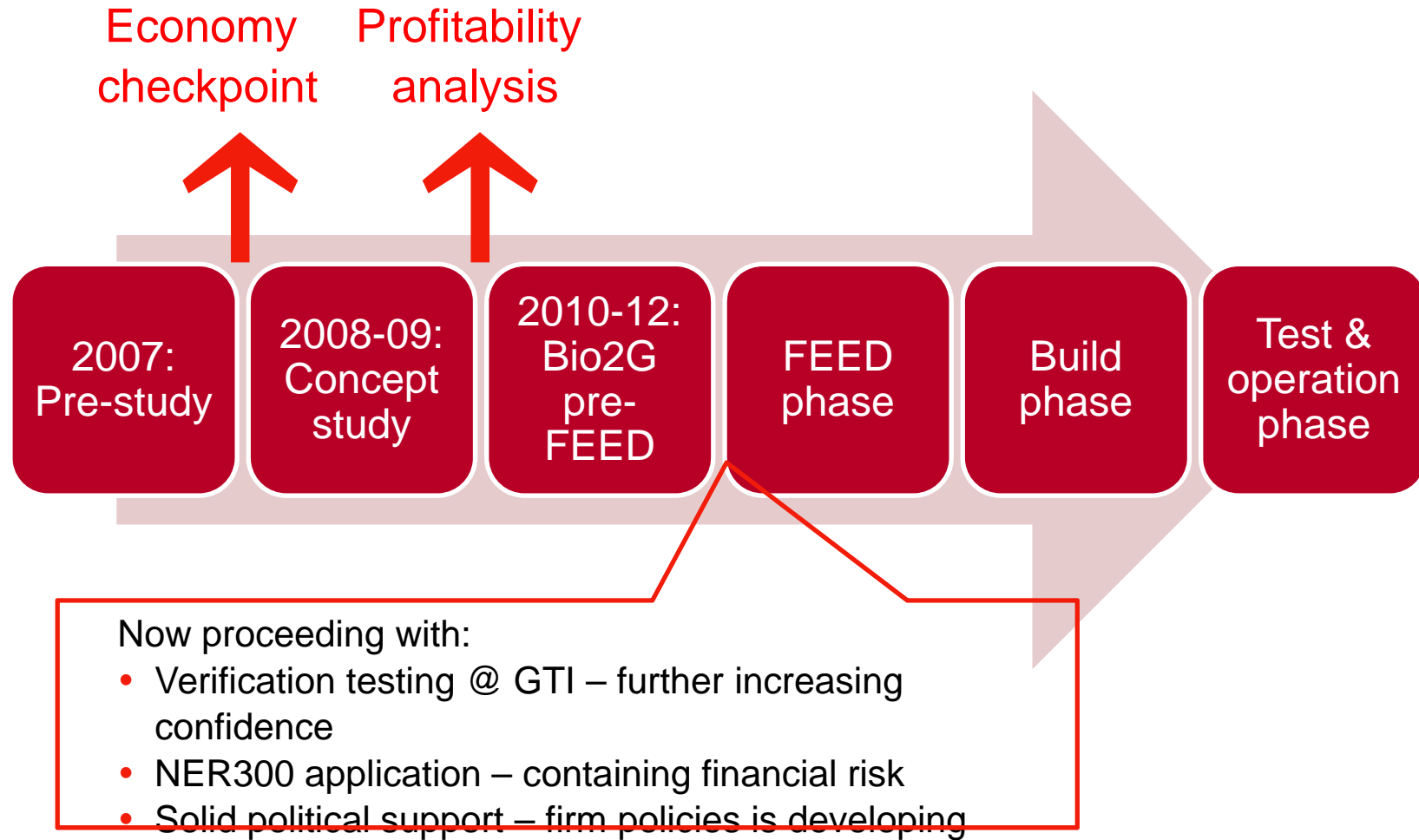
## Stakeholder interest

- Applies to EU 20/20/20 targets as well as renewable targets set for transport fuels in EU and Sweden
- Strong local support for E.ON Bio2G localisation (Malmö & Landskrona)

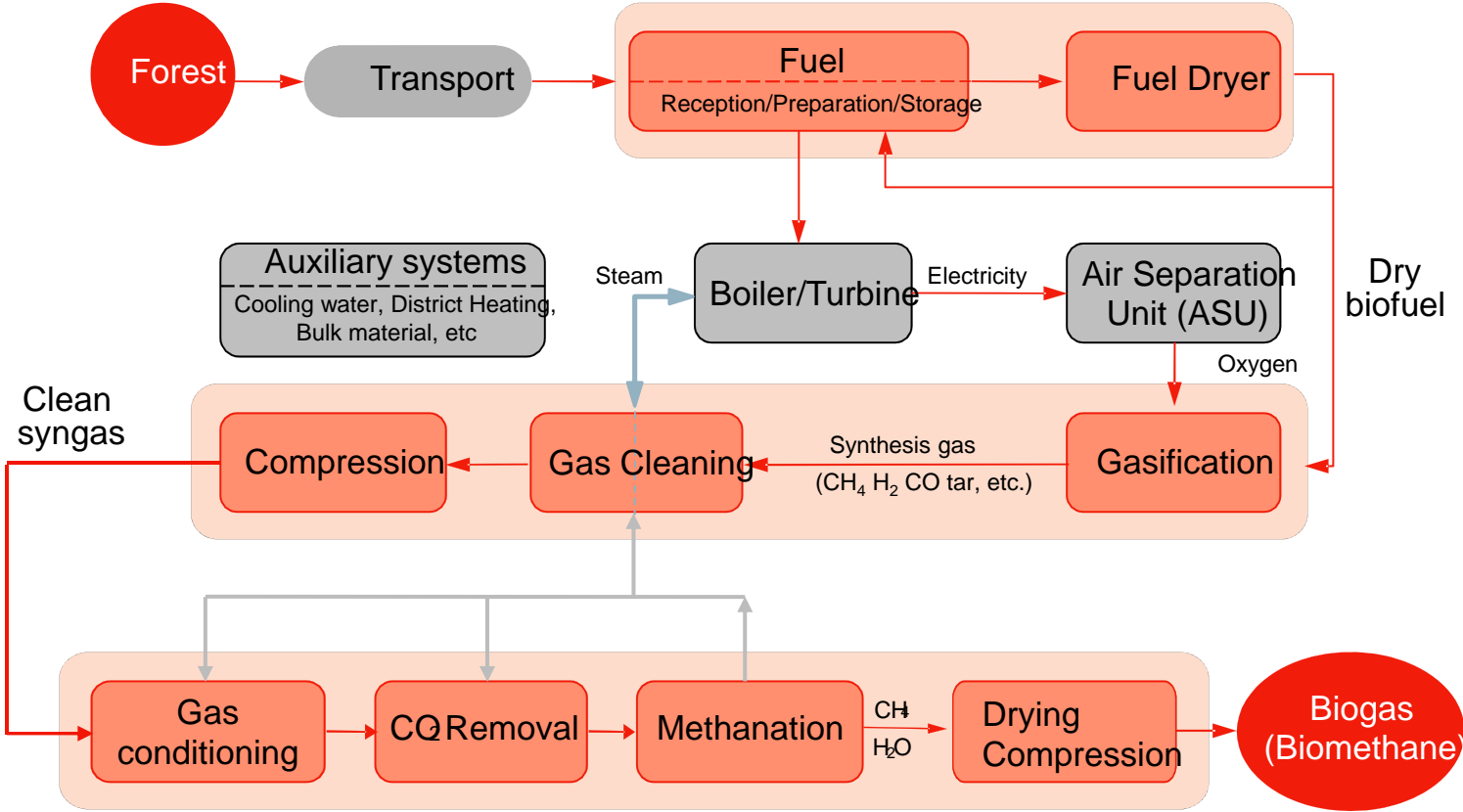


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# Bio2G – main time schedule



# A new concept – but mainly based on mature technology

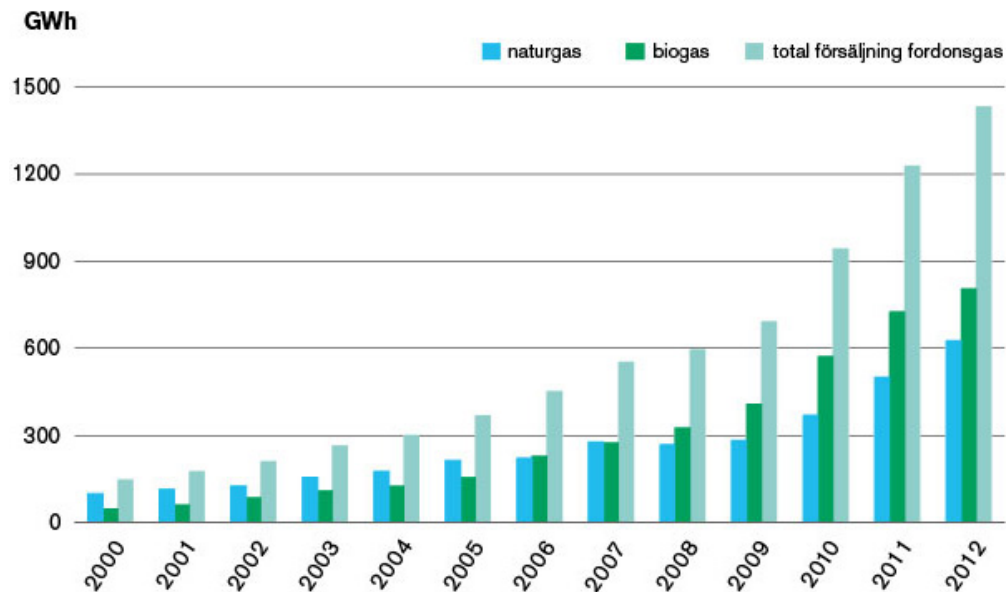


Process diagram Bio2G



# All natural gas markets possible – but vehicle gas crucial for growth and economy

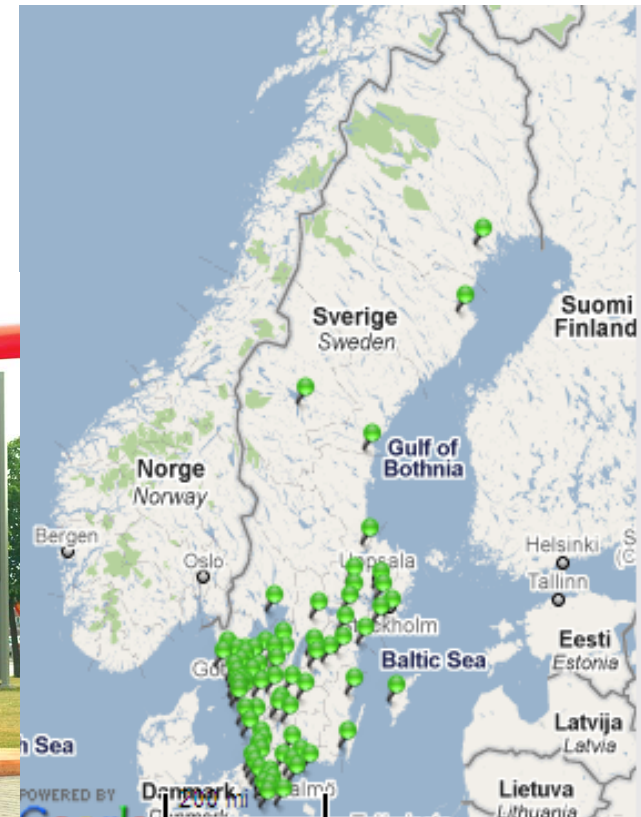
- Natural gas use in Sweden relatively low, although taxation is favourable compared to oil-based products for industry and CHP
- Vehicle gas (>50% renewable content) fast growing and competing well against green alternatives. Oil price level used as price base rather than gas



**Development  
in vehicle  
gas sales**

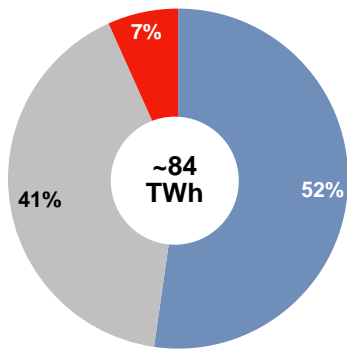
# Fuel infrastructure is spreading quickly – now covering the most densely populated part of Sweden

- 138 public fuelling stations
- 57 non-public stations, whereof 37 bus depots
- First fuelling stations for LBG, liquid biogas, are up and running

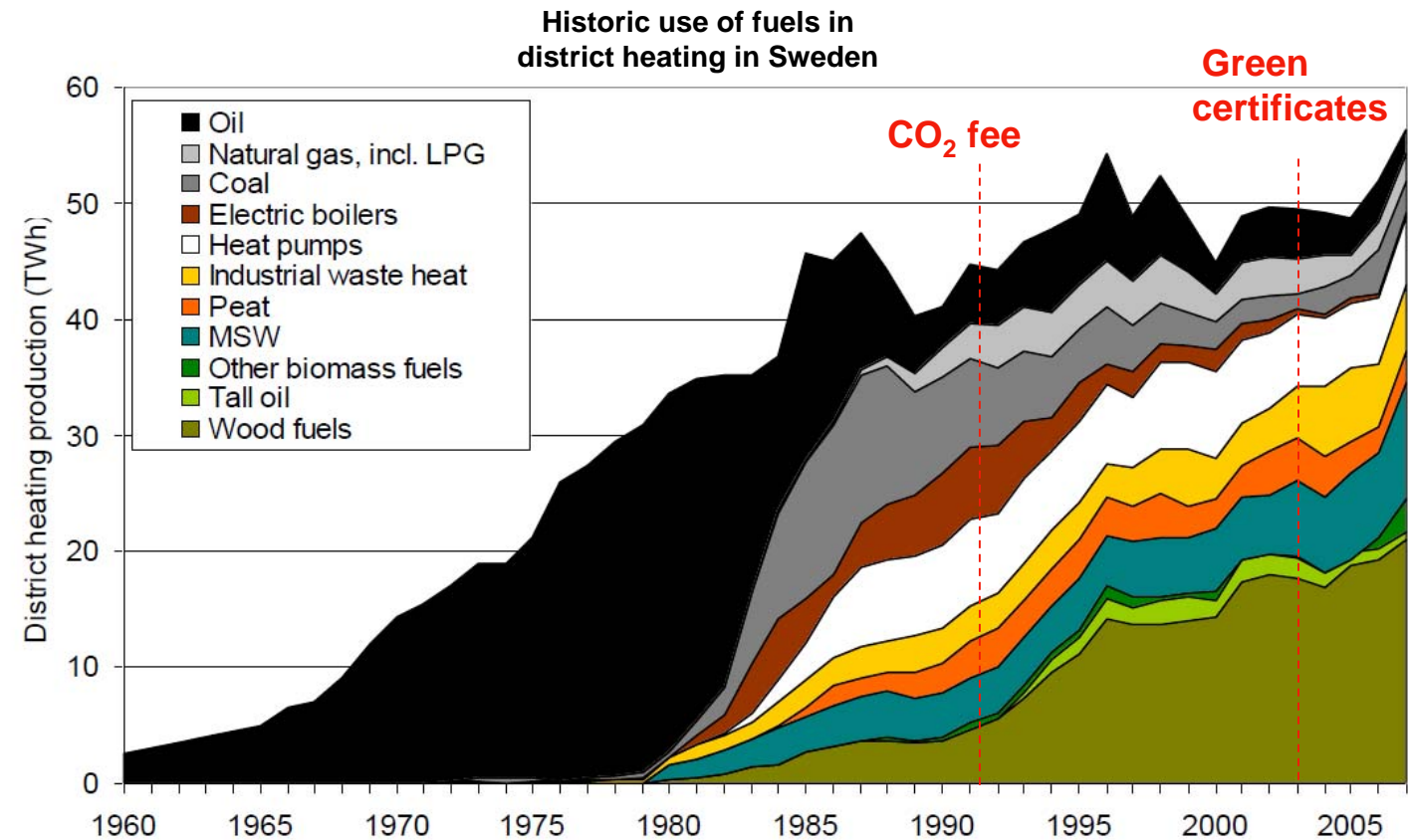


# Developing a market for biofuels – compare policy driven transition from fossils in Swedish DH-market

Use of different fuels in road traffic in Sweden



- Gasoline
- Diesel
- Renewable fuels



**Main drivers: Oil price, CO2 taxation and green electricity certificates (15 years)**

