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The role of Biogas today and
tomorrow

- What role can energy gases play?
- Which problems can energy gas solve for the people of Sweden?



Natural gas in Sweden – today and tomorrow

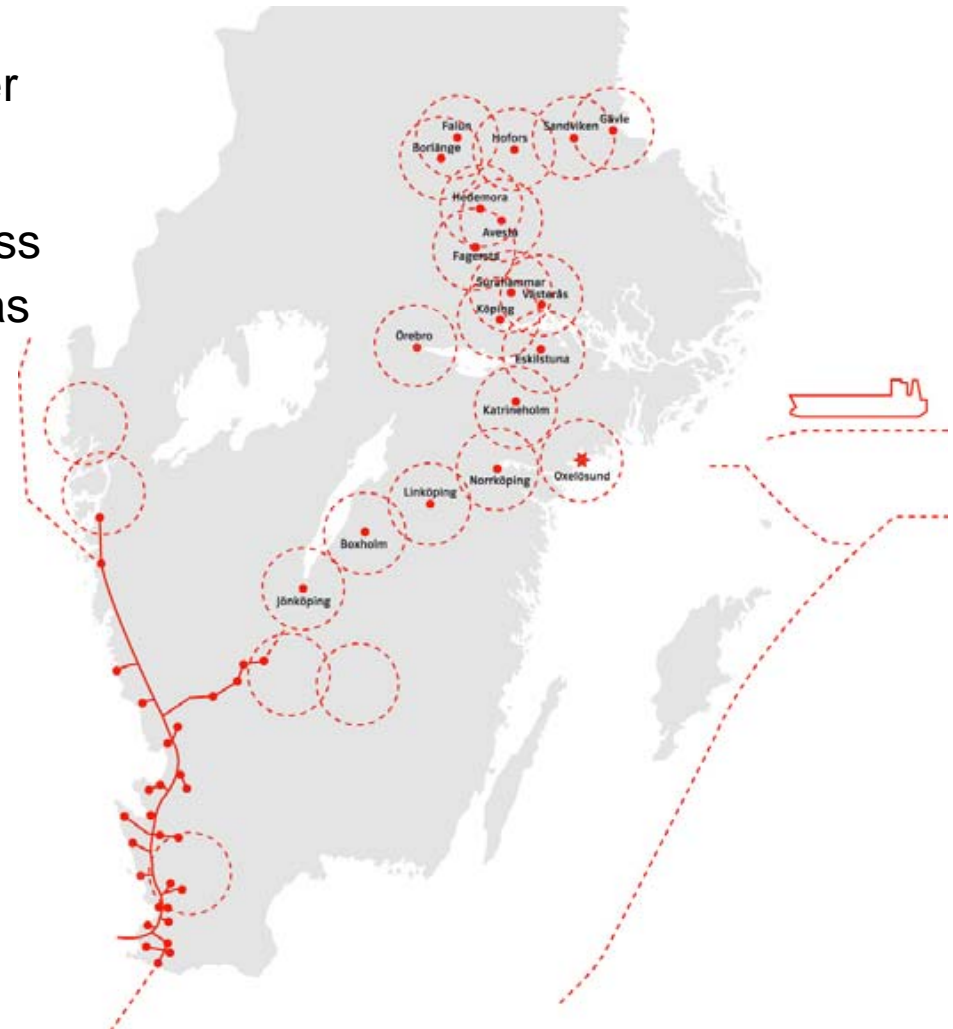
Natural gas is supplied on the west and south coasts – approximately 12 TWh per year

A number of major projects are in progress to increase the geographical areas for gas business

Potential additional market in Sweden
20-30 TWh per year

Possible supply solutions:

- Build-out of existing network
- Connection to existing networks in Europe
- Connection from Norway, Skanled
- Liquid natural gas, LNG



”Sweden’s major industries needs competitive energy to replace coal and oil...”

- - *Natural and biogas can secure thousands of jobs in Sweden.*

”Sweden must replace petrol as a motor fuel...”

- - *CNG is the most environmentally friendly alternative.*

”Sweden must live up to its ambitious climate goals...”

- - *Natural and biogas can help us to quickly reach the country’s goals.*

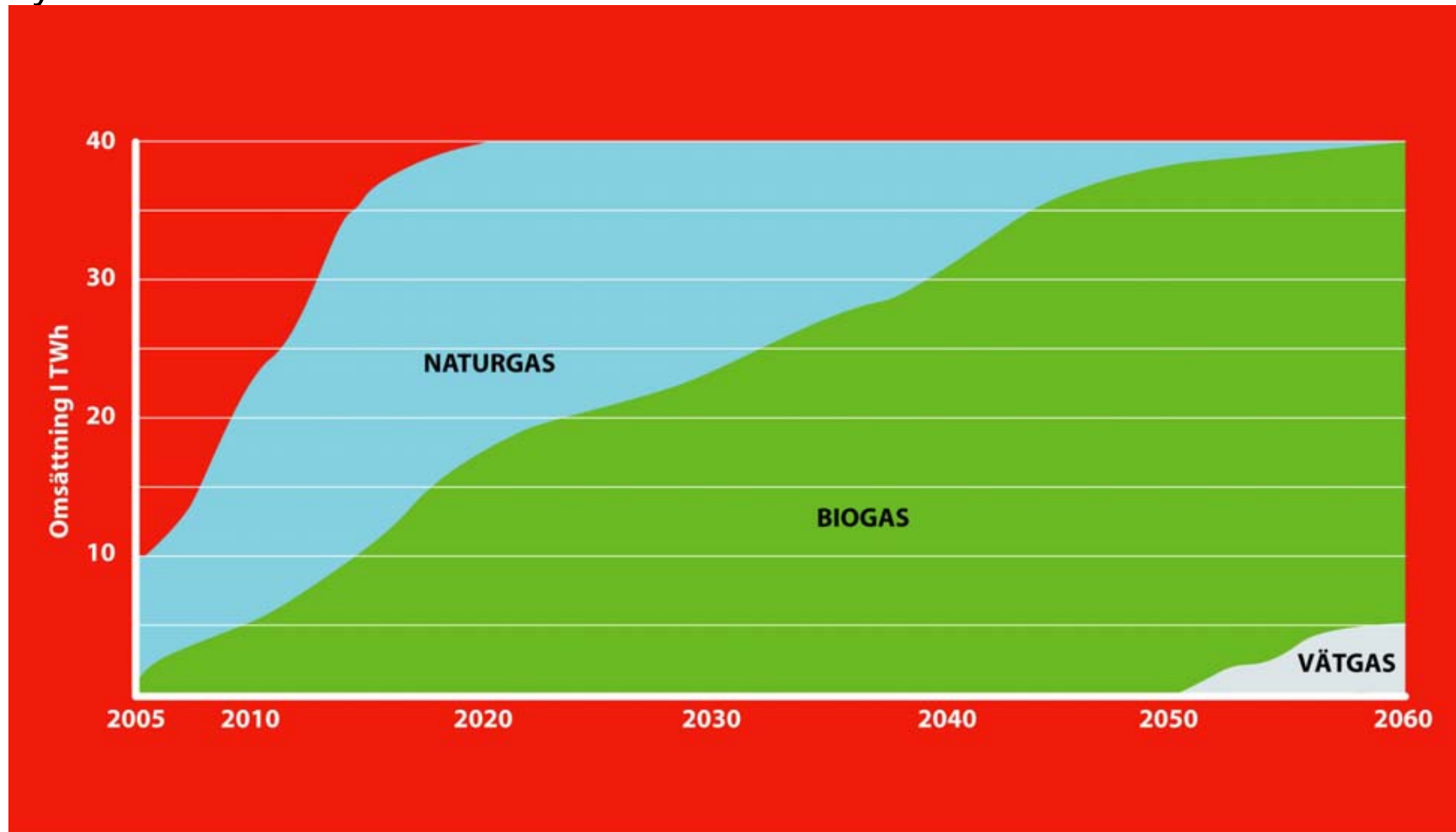
”Sweden needs more renewable energy...”

-- *An extended pipe network for natural and biogas creates the conditions for major investment in biogas and CNG.*

”Sweden needs several alternative energy supplies to be less vulnerable...”

-- *Naturl and biogas are alternatives.*

The gas industry's vision vision – Natural gas and biogas in the same system



What does the visionen mean?

- Natural gas and biogas are mixed in the same system.
- Natural gas will dominate initially, but the percentage of biogas will increase.
- Regional networks can be extended where industry needs naturalgas or biogas.
- Biogas is produced locally in Sweden.
- Natural gas and biogas replace coal and oil.



Market pull for biogas already exists and are expected to increase

E.ON:s two first customers of biogas for heating have signed contracts – Amos Fastigheter in Lund and Svedalahem, total amount of 6 GWh annually

Public sector demand fast transition from Natural gas to Biogas for vehicles

Discussions also ongoing with potential industry customers, however not yet formalized

- **Main market potential in the short/medium term expected in the transportation and heating segments**