CBG in Denmark
Lessons learned from CNG – applicable to LNG?

GREAT Midterm Conference
Knud Boesgaard, FREMSYN, June 7, 2017
Danish CBG actors

- Report series
- Possibilities and barriers for CBG for heavy transport in Denmark

Vast potential ...

supreme climate performance....

and cost effective fuel.
Biogas for transport i Danmark

Trends
• Purely biogas
• CBG sales purely driven by municipalities
CBG potential

- Potential [mio. m³]
  - 2017: 10
  - 2018: 20
  - 2019: 30
  - 2020: 40
  - 2021: 50
  - 2022: 60
  - 2023: 70
  - 2024: 80
  - 2025: 90
  - 2026: 100
  - 2027: 110
  - 2028: 120
  - 2029: 130
  - 2030: 140

- Part of Danish transport fuels
  - Trucks: 5%
  - Renovation: 10%
  - Busses: 15%

- High scenario
Cost of emissions from busses
100.000 km in a CBG bus
Thoughts on LNG/LBG in Denmark

Need for LNG?
• CBG can cover Denmark
• No need for LNG for CBG

Lessons from LNG
• Biogas is a must

Focus on shipping
• LNG bunkering on the rise

DIRECTIVE 2014/94/EU on the deployment of alternative fuels infrastructure:

(46) The TEN-T Core Network should be the basis for the deployment of LNG infrastructure as it covers the main traffic flows and allows for network benefits. When establishing their networks for the supply of LNG to heavy-duty motor vehicles, Member States should ensure that refuelling points accessible to the public are put in place, at least along the existing TEN-T Core Network, within adequate distances taking into account the minimum range of LNG heavy-duty motor vehicles. As an indication, the necessary average distance between refuelling points should be approximately 400 km.
INVITATION:

ROADSHOWET BIOGAS TIL TRANSPORT

Biogas til renovationskørsel og andre transporter

Kommuner, regioner, affaldsselskaber og renovationsvirksomheder inviteres hermed til eventen "Biogas til renovations-kørsel og andre transporter" hos:

**Vestforbrænding** - Ejby Mosevej 219, 2600 Glostrup
**Mandag den 12. juni 2017** - kl. 11.30-ca. 16.30
Tak for opmærksomheden

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