Nature Energy

Political Opportunities and Threats for Biomethane in the Nordics Nordic Biogas Conference 09.04.2019



One piece of a very large puzzle



- There is only one Opportunity and one Threat
- ... Demand



Opportunities are many

- Among the more promising ones are those from RED II
 - Renewable in heating and cooling
 - Renewable in transports
 - Sector Coupling
 - ... but most important is consumer action

RED II

- Mainstreaming renewable energy in heating and cooling (Article 23)
 - ...the share of renewable energy in that sector by an indicative 1,3 percentage points...
 - Biomethane can do this within the existing infrastructure
 - And it can meaningfully separate the production site from the consumption
 - Nordic Potential is not overwhelming, but European potential is massive

- 20 BCM of biomethane in 2030
- And the resulting price increases with no subsidies, tipping fees and tax exemptions
 - Less than 18 €/annum
 - Or roughly 1% increase



RED II

- Mainstreaming renewable energy in the transport sector (Article 25)
 - ...the share of renewable energy within the final consumption of energy in the transport sector is at least 14 % by 2030...
 - Biomethane can fulfill the most challenging parts of renewables in transport
 - Heavy Duty, long distance transport
 - Advanced Transport fuel
 - Scalable solution but requires investment in different infrastructure from the current

- >10 BCM of biomethane in 2030
- Indications that it is the most cost effective transition of transport fuels
- But the framework must promote action
- ... and it should remain stable in order to allow for investments

Sector Coupling

- There needs to be build a new and strong link between gas and electricity sectors
 - But transportation and heating and cooling needs to play a role in this coupling
- Biomethane needs to embrace the flexibility needs from all these different sectors
- But most importantly it needs to develop new business models that builds upon this demand for flexibility

- There are no free lunches
 - Electricity is not going to be priced at zero for any significant number of hours during a year
- Biomethane needs to develop business models that can afford to pay LCOE for intermittent electricity
 - If not, biomethane will not find a significant role in sector coupling



Consumer Action

- The most important factor however is consumer action
- Consumer action creates immense support for the necessary politics
- Consumer action is necessary to change the perception that gas infrastructure is inherently fossil
- Guarantees of Origin are getting more recognition in RED II
- Politically important to not surrender GoOs for subsidies

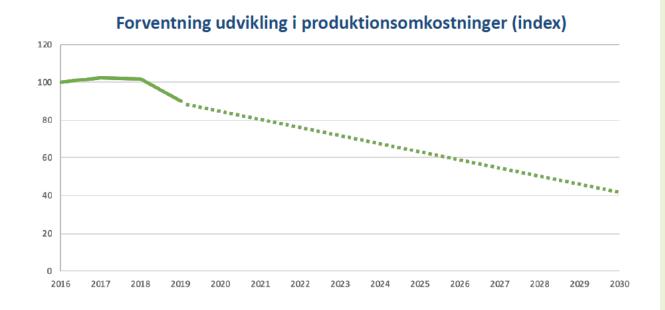
- Potential market is the entire European Gas market
 - >250 BCM
- At the end of the day consumers will have to pay for the biomethane
 - Directly or indirectly
 - Getting consumers directly involved through biomethane products is key to demonstrate public support
 - ... and reduces exposure to policy shifts

...but we need to demonstrate cost and scale

 If we cannot demonstrate both, other technologies will do so



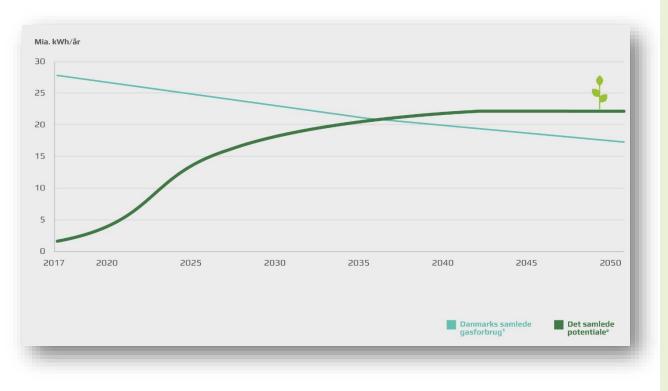
Cost Reductions



Biomethane needs to demonstrate reducing costs

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Demonstrate the potential



- The potential for biomethane is huge
- But we need to demonstrate that it is there
- And that it is sustainable



National implementation

- All of this needs the right national implementation
- And it needs consistent implementation across different countries

 But more importantly it needs to be an implementation across agriculture, industry, energy and waste



Thank you for your attention

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