Oil Gas Denmark – Trade organisation for the upstream oil and gas industry

8th Danish Licensing Round Seminar – 23 August 2018

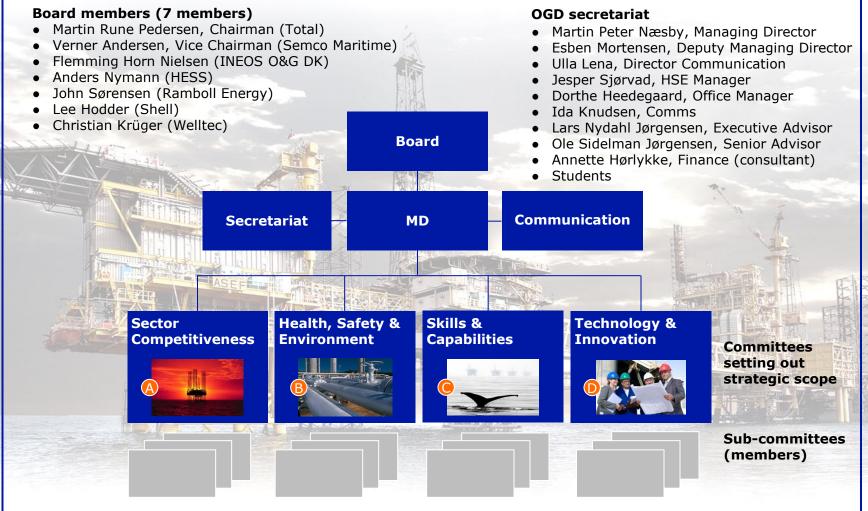
Managing Director Martin Peter Naesby

Oil Gas Denmark - Trade organisation for the Danish Oil & Gas Industry

Our aim is to enable **realization of the full potential** of the Danish North Sea:

- globally competitive for investments;
- understanding and recognition of the industry;
- ✓ advocating in Denmark, EU and internationally;
- ✓ trusted voice.

Oil Gas Denmark - Organisation



Friday, 24 August 2018 Trade Organization for the Oil and Gas Sector in Denmark

oil**é gas**ð denmark

Our members



Key achievements

Ensuring a competitive oil and gas industry - highlights

- North Sea Strategy and timely roll out of initiatives;
- Presenting tax/incentives scheme supporting the North Sea Agreement;
- Advocacy on industry matters (e.g. Offshore Safety Directive implementation, Financial Security, Technical Capability, special purpose vessels, EU matters etc.);
- Energy Agreement;
- Benchmarking countries around the North Sea

Key achievements

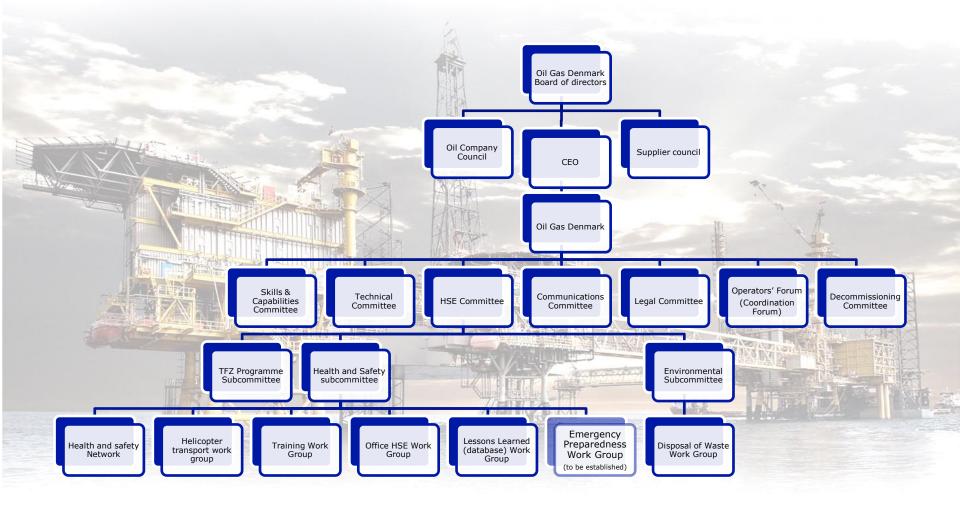
Health, Safety Environment

- Safety collaboration with focus on safety leadership in the industry;
- Task Force Zero as an international leading safety leadership conference;
- Growing recruiting base & people pipeline;
- ✓ Strengthening existing labor pool
- ✓ Yearly Environmental Report

Committees and networking opportunities

- HSE Network events quarterly basis;
- Task Force Zero in May;
- Annual Safety Award Dinner;
- Annual General Meeting and Dinner event;
- ✓ Oil & Gas Summit in October;
- ✓ Ad hoc after work events;
- Meet industry experts in committees, sub committees and work groups

olie gas danmark OGD committee structure



olie gas danmark Industry trends – a snap shot

> Industry Consolidation / change of owner ship:

- > DONG E&P acquired by INEOS E&P, business units established
- > Maersk Oil acquired by Total, Copenhagen regional headquarter
- Hess share of Syd Arne no longer put up for sale
- Bayerngas and Centrica joining forces
- > DEA and Wintershall joining forces
- > Other?

> North Sea Strategy and North Sea Agreement, including Tyra development

- North Sea strategy from the DEA in collaboration with industry being rolled out – good progress
- > North Sea Agreement between the DK government and DUC, implemented
- > Tyra future plan approved by the authorities, implementation ongoing
- Energy Agreement

>Business environment

- Continued focus on safety and environment
- Increase in oil price, sustainable development? Companies 'back in black'?
- Oil companies investments?
- Supplier / service industry investments?

On 29 June 2018 the Danish Government presented the "Energy Agreement"

"Continued exploitation of the oil and gas resources in the Danish North Sea

The green transition will require large investments for a number of years, which calls for **sound public finances**. Investments in oil and gas extraction in the North Sea provide revenues to the state as well as activities supporting Danish economy; thereby these activities provide a basis for **investments in the green transition**.

An agreement has been made with DUC of full recovery of the Tyra field in the North Sea. The agreement secures continuous economically viable activity of the area for many years to come and secures that we will be able to extract large resources, contributing as **stabilizing factors in our energy system**.

The parties conclude that an 'Agreement of the development of the North Sea of March 2017' has been made, which is intended to provide greater security for the remaining resources in the North Sea to be extracted. **Further to that, the parties agree that should some of the contracting parties wish to enter agreements in respect of further extraction and exploitation of the resources in the North Sea, they are free to do so.**"

Source: "Energiaftale" dated 29 June 2018, Ministry of Energy, Utilities and Climate (unofficial translation)

International Energy Agency (IEA)

Energy security

Security of supply is a priority of the Danish energy policy. Thanks to competent planning, timely investments and efficient maintenance, the supply of electricity, heating, gas and oil has been quite stable and without major interruptions in recent years.

Recommendations

The government of Denmark should:

- Take measures to alleviate the risk associated with the reconstruction of the Tyra field in 2019-22 to limit the negative impacts on the security of supply and wholesale gas prices.
- Proceed with the realisation of projects of common interest that help diversify natural gas supply, enhance the security of supply, and may have positive effects on the Danish infrastructure utilisation.
- Assess possible strategies for the future use of the natural gas system in light of developments in energy policy, technology and climate objectives.
- Promote competition in the retail natural gas market, evaluate the impact of regulated prices on natural gas price formation and consider further ownership unbundling.

Recommendations

The government of Denmark should:

- Encourage upstream investments by carefully benchmarking the Danish terms and conditions for exploration and production with those of other countries around the North Sea, and adjust them where appropriate.
- Investigate, together with industry, the potential of economic carbon capture and storage for enhanced oil recovery.

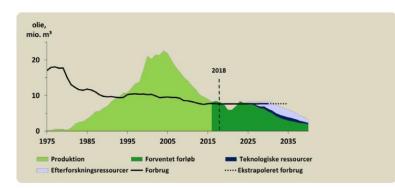
Source: IEA, link: http://www.iea.org/publications/freepublications/publication/EnergyPoliciesofIEACountriesDenmark2017Review.pdf

iea

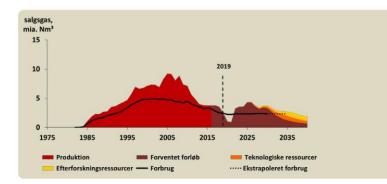
Denmark

2017 Review

Danmark will need oil and gas in the journey towards a fossil independent society



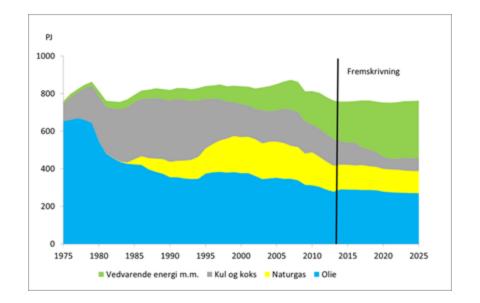
FIGUR 2: Produktion og langsigtet prognose for olie



FIGUR 3: Produktion og langsigtet prognose for salgsgas

Source: DEA





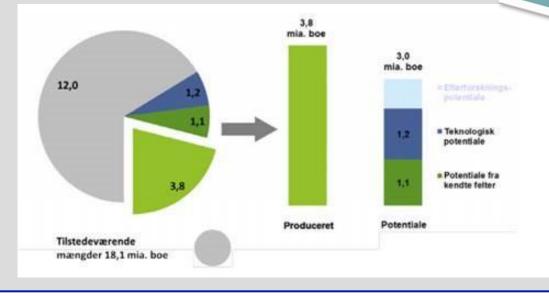
Trade Organization for the Oil and Gas Sector in D

The North Sea Strategy

Three main elements:

- potential
- barriers
- recommendations

Main conclusion:



Source: DEA – strategy report

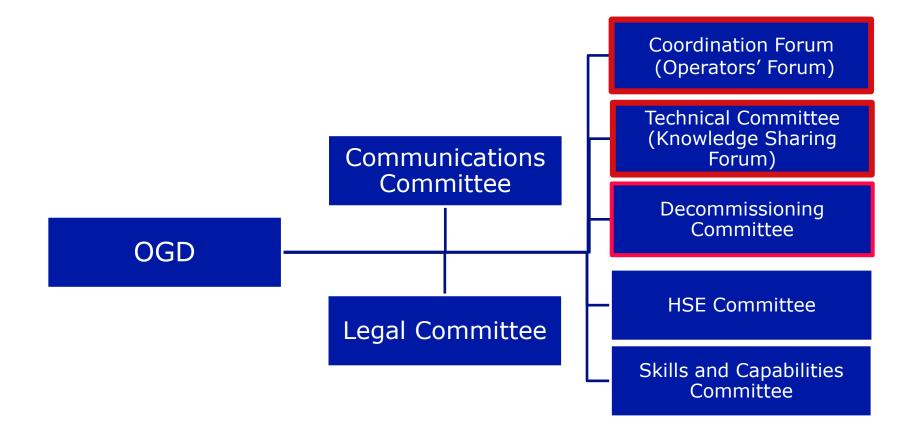
THE FUTURE OF THE DANISH OIL AND GAS SECTOR



Source: DEA – strategy report

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Three new OGD Bodies



olie gas danmark The focus for Oil Gas Denmark

- Agenda: Danish self-sufficiency with oil and gas until the fossil fuel independency but also advocate the following:
 - In recognition of the climate challenge and the increasing demand for energy, focus must be on CO2 emission rather than on the production of oil and gas
 - We need to focus on 1) energy efficiency 2) substitution of high emission sources with low emission energy sources when possible (e.g. from coal to gas) 3) carbon capture and 4) green technologies

Danish Self-Sufficiency 2050

– a position of strength for Denmark

Economic growth: DKK 238 billion in taxes for welfare 35,000 workplaces

Energy security: Danish energy/security of supply in the green transition National security

Sources: Damvad Analytics: "Scenarier for velstandseffekten af udviklingen i Nordsøen". Damvad Analytics: "Olie- og gassektorens samfundsøkonomiske betydning".



> Next step

- ➢ 8th Licensing Round
 - > Financial Security requirements etc. finalised
 - Kick off meeting at DEA 23 August
 - Brancheforum being considered
- Roll out of North Sea Strategy ongoing
 - Technical Committee being set up
 - Operators' Forum being set up
 - Decom Committee being set up
- Political support Energy Agreement
- Ban on onshore exploration, inner waters
- European gas market? Nordstream 2, Baltic Pipe
- Current issues



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Further information

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Thank you! Please visit our web site www.oilgasdenmark.dk

