



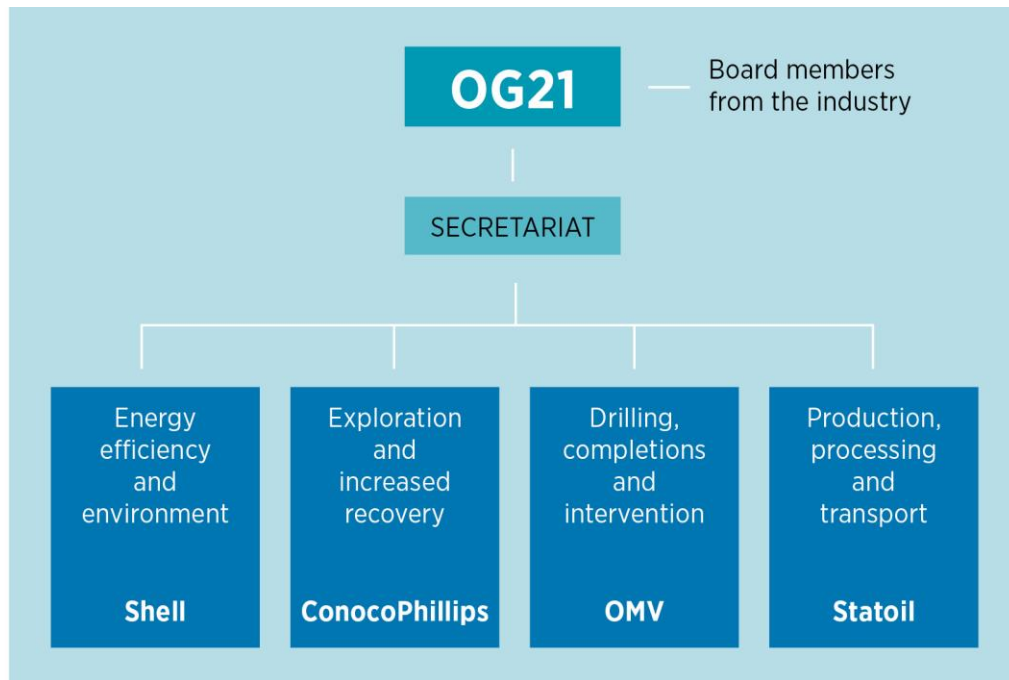
The new OG21-strategy and the Arctic

IEA GOT at Arctic Frontiers | January 26, 2017
Gunnar H. Lille | Managing Director OG21

TOPICS

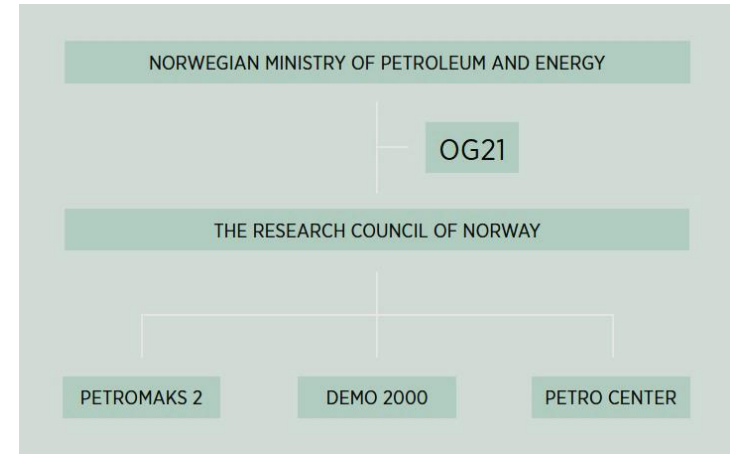
- The new OG21 Technology Strategy - More petroleum at lower costs with lower emissions.
- Describes technology priorities for the NCS and for particular challenges High North.
- Guides public funded petroleum research and stimulates industry technology development.
- Norwegian Barents Sea – operational experience exist and should be leveraged.

OG21 - THE NATIONAL TECHNOLOGY STRATEGY FOR THE PETROLEUM SECTOR

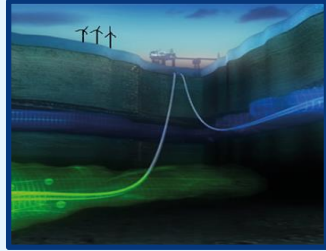


OG21 STIMULATES RESEARCH AND TECHNOLOGY DEVELOPMENT

- Guides public funded petroleum R&D
- Stimulates industry R&D:
 - Collaboration in public funded R&D projects.
 - Through OG21 network.
 - Stakeholder engagement and communication.

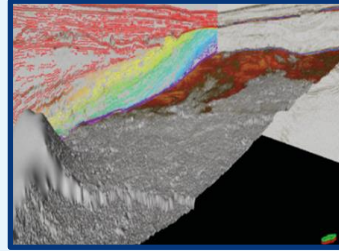


New OG21-strategy - Prioritized technology needs



Minimize emissions

- Energy efficiency
- «Zero emissions»
- Environment protection



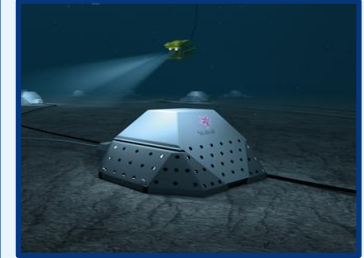
Maximize resource utilization

- Subsurface understanding
- Enhanced Oil Recovery



Improve productivity & reduce costs

- Drilling efficiency and P&A
- Production optimization
- Subsea and unmanned systems

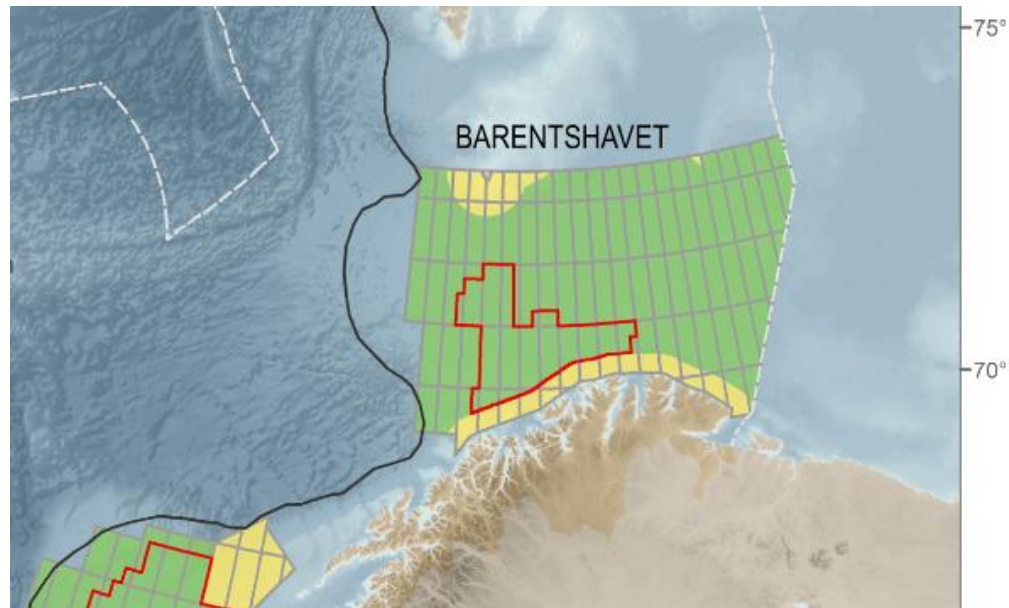


Technologies for High North particular challenges

Digitalization

OG21 - the «Arctic» scope

- Open areas of the NCS
- Particular challenges



Particular High North challenges - technology needs



OG21 RECOMMENDS

Address technology needs



Stimulate technology use




Address competence needs



SUMMARY

- The new OG21 Technology Strategy - More petroleum at lower costs with lower emissions.
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A glowing jellyfish is shown against a black background. The jellyfish's body is a bright, translucent white, and its long, thin tentacles are spread out, some reaching towards the left and others hanging down. The lighting highlights the delicate structure of the jellyfish.

www.og21.no