



RESOURCE REPORT 2022 an extract with focus on gas

Terje Sørenes Norwegian Petroleum Directorate 29. November 2022



Future energy mix has a large range of potential outcomes - different scenarios for global energy demand until 2050



Report_22-04_v1.pdf (rff.org)

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IEA May 2021: – no new investments in oil, gas and coal



"If governments are serious about the climate crisis, there can be no new investments in oil, gas and coal, from now – from this year."



NBP and Continental European gas prices (\$/MMbtu)



NPD

Battle for "replacement gas"







European gas prices remain elevated compared with Asia

\$ per million British thermal unit



Source: FactSet © FT

Europe is facing both a gas and a power crisis



FREEZEPROFITS NOT PEOPLE

Europe's industrial sector could be wiped out by the energy crisis



Great if you send gas to Europe





Dr. Fatih Birol, (IEA).



Short Term Actions Taken by Companies

- Reduction of non-critical maintenance
 - *«winter production» also during the summer*
- Increased heating value
 - NGLs
- Earlier gas production
 - Reduced gas injection
 - Started gas blow down earlier
- Restart of Hammerfest LNG
 - Shut in since 2020 after a fire



Dilemmas

Options:

- Reduce gas injection
- Accelerate gas blowdown
- Drill more gas wells than planned (change drainage strategy)
- Increased heating value (NGL)
- Deferring maintenance to maximize gas exports

Challenges:

Value of lost oil

Faster falling reservoir pressure => increased compression costs

Accelerated production shutdown and field removal

Deferring maintenance

Need for gas - Also in the Longer Term



The EU supports Norway's continued exploration and investments to bring oil and gas to the European market.....also in the longer term beyond 2030.

Joint Statement

Brussels 23. june 2022.



Oil and Energy Minister Terje Aasland in a meeting with EU Commission Vice-President Frans Timmermans





REMAINING PETROLEUM RESOURCES

Half has been sold and delivered





Distribution of remaining liquid and gas resources by NCS area and class







Focus on gas







STABLE, LONG-TERM AND SAFE OIL- AND GASPROVIDER TO EUROPE

WHAT DOES IT TAKE?



Exploration is profitable and has added great value to society





Unit costs discoveries (2002-2021)

Ability and willingness to explore









We need to explore and find more gas



More gas export capacity in the north is needed









Substantial undiscovered resources in the Barents Sea

- Fifty-nine per cent of resources in the Barents Sea lie in areas which have not been opened for petroleum activities, mostly in Barents Sea North.
- That area has the highest probability of making large new discoveries on the NCS.

NPD



The energy transition – gas can contribute



Emission intensity for natural gas deliveries to the UK. Source: OGA (2020).











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