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## Oil and Gas as part of the Solution for Energy Security and Clean Energy Transitions

IEA Global Innovation Network

Joint GOT - EOR TCP Workshop<br>Norwegian Petroleum Directorat, 24 November 2022

## Starting at 09:00 CET

Hybrid event

## Technology Collaboration Programme

# Oil and Gas as part of the Solution for Energy Security and Clean Energy Transitions 

Joint GOT - EOR TCP Workshop
Norwegian Petroleum Directorate 24 November 2022

Welcome and Background

Jostein Dahl Karlsen
CEO, Gas and Oil Technology Collaboration Programme

- A part of the IEA Global Innovation Network


## Purpose of event



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Energy Security \& Transition Challenges post Ukraine

## Net Zero by 2050

## Crunch time

Russia is turning off the gas. What should governments in Europe do?


The «energy trilemma»


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## GOT Reframing into a focus on Zero Emission Hubs




## Energy super basins map



## Energy super basins

Potential energy super basins

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## Zero Emission Vision: strategic elements in hubs



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The «silent revolution» - oil and gas are RE vanpıards

Estimated investments in the Dutch energy transition 2016-2021


Legenda: ( ${ }^{*}$ : Eigenaarschap niet volledig duidelijk

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## Event outline

A Contextual Keynotes
B $\quad$ Theme 1 a) Hydrocarbons in the Energy Security \& Clean e nergy transition context

C Theme 2) The Hydrocarbon-Renewables Nexus \& Decarbonization

Roundtable; Oil and Gas in the perspective of Energy Security

D $\quad$ Theme 1 b)
Hydrocarbons, Energy Security \& Clean Energy Transitions cont.

Summary

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## Per Sogge Ministry of Petroleum and Energy, Norway

## Carl Greenfield IEA

## NN, etc.....

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## Roundtable Oil and Gas in the context of Energy Security

# Lunch Break <br> Oil and Gas in the context of Energy Security and Transition 

 Session resumes at 13:00 hrs CET
## Summary remarks <br> Cesar

## Close of event

