

# Energy Norway 2023

Subsurface for energy security and sustainability

Monday 13. March

HOUR:	DESCRIPTION:
09:00	<b>Workshop - Subsurface water management for reduced CO2 emissions</b> Registration
09:45	<b>Welcome!</b> Tina Puntervold, Associate Professor, University of Stavanger, Chair conference programme committee
10:00	<b>Water management challenges</b> Kirsti Veggeland, Norwegian Petroleum Directorate
10:25	<b>eCalc™ - Energy and emission calculations for better decisions</b> Marlene Louise Lund, Equinor
10:50	<b>Coffee Break</b>
11:15	<b>Water production: Effect of wettability alteration and accelerated oil production</b> Aruoture Voke Omekeh, NORCE
11:40	<b>Why Smart Water is the solution for reduced CO2 emission/water production</b> Skule Strand, UiS
12:05	<b>Reducing produced water and CO2 emission of upstream operations by CCUS and IOR/EOR: a thermodynamic perspective</b> Ali A. Eftekhari, Technical University of Denmark
12:30	<b>Lunch</b>
13:20	<b>Increased Reservoir Sweep Efficiency using Foam Mobility Control</b> Zachary Alcorn, University of Bergen
13:45	<b>Reduced CO2 emission - does it open a new route to conformance control?</b> Arne Stavland, NORCE
14:10	<b>Snorre conformance control - impact on oil recovery and CO2 footprint</b> Felix Feldmann, NORCE

<b>HOUR:</b>	<b>DESCRIPTION:</b>
14:45	<b>Coffee Break</b>
15:00	<b>Can produced water be used as IOR fluid?</b> Ingebret Fjelde, NORCE
15:50	<b>Discussion</b> Host: Ying Guo, NORCE
16:30	<b>End of workshop</b>
17:00	<b>Ice breaker at Jernaldergården - "Iron age farm"</b> Finger food

Tuesday 14. March

<b>HOUR:</b>	<b>DESCRIPTION:</b>
09:00	<b>Registration at Tjodhallen</b>
10:00	<b>Opening session - Host: Tor Øyvind Skeiseid</b> - Klaus Mohn, rector University of Stavanger - Alejandro Escalona, NCS2030 director - Rune Volla, director Research Council of Norway
10:50	<b>Session 1 - The future of the NCS</b>
10:50	<b>"The resource potential on the NCS"</b> Torgeir Stordal, Norwegian petroleum directorate, NPD
11:05	<b>"Technology that halves greenhouse gas emissions"</b> Gunnar Lille, OG21
11:20	<b>"Is restricting oil supply a viable climate policy? Quantifying supply-side climate policies"</b> Torfinn Harding, UiS Business School
11:35	<b>Q&amp;A</b> <b>- Poster announcement - 1 minute per candidate</b>
12:00	<b>Lunch</b>

HOUR:	DESCRIPTION:
13:00	<b>Session 2 - Energy security and reduced emissions</b>
13:00	<b>"A changing European Energy Security Paradigm in the global quest for reduced CO2 emissions - role of early market innovation hubs"</b> Jostein Dahl Carlsen, CEO and President, Gas and Oil Technology Collaboration Programme, IEA
13:15	<b>"Energy security in the gas market - a Polish perspective"</b> Adam Gniazdowski, Head of Unit for Natural Gas, Polish Ministry for Climate and Environment
13:30	<b>"Nuclear Energy in Norway?"</b> Sunniva Rose, Chief Communications Officer of Norsk Kjernekraft AS
13:45	<b>"Geothermal closed loop technology"</b> Ola Vestavik, Reelwell
14:00	<b>Q&amp;A</b>
14:15	<b>Coffee Break</b>
14:45	<b>Session 3 - Pathways to achieve net-zero targets</b> Marta Rós Karlsdóttir, The National Energy Authority of Iceland
15:00	<b>"Building a CCS value chain for Europe"</b> Steinar Midthun Kolstø, WintershallDea
15:15	<b>"An Integrated Approach to Net Zero in Remote Regions"</b> Lesley James, Memorial University of Newfoundland
15:30	<b>"Subsurface H2 Storage in Texas: Opportunities and Challenges"</b> Lorena Moscardelli, University of Texas at Austin
15:45	<b>Q&amp;A</b>
16:00	<b>Coffee Break</b>

HOUR:	DESCRIPTION:
16:20	<b>Panel session: “Future Energy Security for Europe”</b> Hosted by Tor Øyvind Skeiseid -Andreas Bjelland Eriksen, Ministry of Petroleum and Energy -Gunnar Lille, OG21 -Torgeir Stordal, NPD -Nicholas John Ashton, Equinor
16:55	<b>End of conference day 1</b>
19:00	<b>Conference Dinner at Hotel Victoria</b>

Wednesday 15. March

HOUR:	DESCRIPTION:
09:00	<b>Welcome and opening</b> Tor Øyvind Skeiseid
09:10	<b>Session 1 - Reservoir management for reduced emissions</b>
09:10	<b>“From Subsurface to Surface integration for a NET ZERO target”</b> César Patiño, IEA
09:25	<b>“From offshore polymer pilot to full-field EOR development, the Captain story”</b> Geoff Johnson, Ithaca Energy
09:40	<b>“Computational Rock Physics”</b> Erik Saenger, Bochum University of Applied Sciences
09:55	<b>Q&amp;A</b>
10:10	<b>Coffee Break</b>
10:30	<b>Session 2 - Subsurface storage opportunities</b>
10:30	<b>“Potential leakage mechanisms and their relevance to CO2 storage site risk assessment and safe operation”</b> Viktoriya Yarushina, IFE

<b>HOUR:</b>	<b>DESCRIPTION:</b>
10:45	<b>“Trapping the Gases: Exploration for Potential On and Offshore Underground Geo Storage Sites (CO<sub>2</sub> , CH<sub>4</sub> , H<sub>2</sub> ) in Greece; An Overview”</b> Spyridon Bellas, Twinn2Set, Institute of GeoEnergy, FORTH
11:00	<b>"Permanent sequestration of gigatons of CO<sub>2</sub> in continental margin basalt deposits"</b> Sverre Planke, Volcanic Basin Energy Research
11:15	<b>Q&amp;A</b> Poster announcement – 1 minute per candidate
11:40	<b>Lunch</b>
12:50	<b>Session 3 - The digital subsurface</b>
12:50	<b>“Federated Knowledge Cloud for Digital Subsurface”</b> Chunming Rong, UiS
13:05	<b>“Digital Subsurface Integration”</b> Alexander Shadchnev, Slb
13:20	<b>“Probabilistic Production Forecasts: Optimistic and Overconfident - Over and Over Again”</b> Reidar Bratvold, UiS:
13:35	<b>“Digital Subsurface: A Success Story From Idea to Implementation”</b> Tao Yang, Equinor
13:50	<b>Q&amp;A</b>
14:05	<b>Coffee Break</b>

HOUR:	DESCRIPTION:
14:35	<p><b>Panel session: “Energy security and sustainability from a research centre perspective</b></p> <ul style="list-style-type: none"> <li>- Alejandro Escalona, NCS2030 : "NCS sustainable energy hubs, challenges and opportunities"</li> <li>- Harald Linga, SFI-SWIPA P&amp;A: “Innovation-driven R&amp;D for well barriers and P&amp;A”</li> <li>-Fionn Iversen, FME HyValue: “The potential for hydrogen as an energy carrier in the future energy mix”.</li> <li>-Morten Jeppesen, DTU Offshore: “The Danish Offshore Technology Centre: Tailormade R&amp;D solutions for the energy transition”</li> <li>-Sina Rezei-Gomari, NZIIC, UK: “Importance of Hydrogen in the UK’s energy security and decarbonation ambition: focusing on overcoming the challenges of hydrogen storage and distribution”</li> </ul>
15:30	<b>Discussion</b>
15:50	<p><b>Skjæveland Award</b> Merete Vadla Madland, prorector UiS</p>
16:00	<p><b>Summary of the conference</b> Camilla Vavik Pedersen, Equinor</p>
16:05	<p><b>End of Energy Norway 2023 - Welcome back in 2024!</b></p>