



Produced Water Management (PWM)

Energistyrelsen and Miljøstyrelsen at DTU Offshore

DTU Offshore

Danish Offshore Technology Centre

Date: Tuesday, 9 May 2023

Location: Room 153, DTU Offshore (Elektrovej 375, 2800 Kongens Lyngby Hovedstaden, Danmark) & Virtual

SCHEDULE

- | | |
|----------------------|--|
| 10:00 – 10:20 | Welcome and introduction
Overview of DOTC and the PWM program |
| 10:20 – 10:40 | Insights from Authorities
Miljøstyrelsen
Energistyrelsen |
| 10:40 – 11:05 | Produced Water Re-Injection
Overview of key challenges
Near wellbore formation damage and ultra-low concentration acid injection |
| 11:05 – 11:15 | Coffee break |
| 11:15 – 11:45 | Development of analytical methods and control
Capillary electrophoresis, Advanced fluorescence, and MPC
Measuring polar and non-polar species in produced water |
| 11:45 – 12:00 | Environmental Impact
Intelligent Testing Strategy and Biodegradation kinetics in the marine environment |
| 12:00 – 12:35 | Lunch |
| 12:35 – 12:50 | Produced water treatment
Biological treatment of produced water on the seabed |
| 12:50 – 13:15 | Reducing the environmental impact of H₂S treatments
Developing new green H ₂ S scavengers
Removing H ₂ S scavengers |
| 13:15 – 13:30 | Discussions |
| 13:30 – 14:00 | Lab tour |



Miljøministeriet
Miljøstyrelsen



Energistyrelsen

Presentations

10:45 – 11:10 [1] **Overview of key challenges**
Charlotte Lassen & Ole Andersen, Technical Advisors, DTU Offshore

[2] **Near wellbore formation damage and ultra-low concentration acid injection**

Hamid Nick, Senior Researcher, DTU Offshore

11:20 – 11:50 [3] **Capillary electrophoresis, Advanced fluorescence, and MPC**
Simon Ivar Andersen, Professor, DTU Offshore

[4] **Measuring polar and non-polar species in produced water**

Karen L. Feilberg, Senior Researcher, DTU Offshore

11:50 – 12:05 [5] **Intelligent Testing Strategy and Biodegradation kinetics in the marine environment**

Anders Baun & Philipp Mayer, Professors, DTU Sustain

12:35 – 12:50 [6] **Biological treatment of produced water on the seabed**

Henrik R. Andersen, Professor, DTU Sustain

12:50 – 13:15 [7] **Developing new green H₂S scavengers**

Christian M. Pedersen, Associate Professor, University of Copenhagen

[8] **Removing H₂S scavengers**

Marco Maschietti, Associate Professor, Aalborg University



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