



SEMINAR

Assessing & Managing Effects of Underwater Noise for Offshore Developments



The impacts of underwater noise from offshore developments such as offshore wind farms have become an environmental issue of high importance. Pressures on the marine ecosystem are increasing rapidly with the accelerating development of offshore wind and increase in shipping. Do we have the tools to assess impacts accurately, for example taking marine life's mobility into account? How can we protect marine life from noise impacts?

This one-day DHI seminar is run in association with the Swedish Wind Energy Association (Svensk Vindenergi) and provides an overview of best practices in managing the impacts of underwater noise on marine life. The seminar covers all components of the risk-assessment starting from sound source description to numerical modelling of noise and the biological impact assessment.

SEMINAR TOPICS

- Background on underwater sound
- The risk-based approach to underwater noise assessments
- Numerical modelling of underwater noise
- Biological impact assessment including animal movement
- How to mitigate noise effects

INTENDED AUDIENCE

- ❖ Regulatory and government agency employees
- ❖ Port, terminal, and offshore wind farm developers
- ❖ Scientists and students in the fields of environmental management
- ❖ Coastal engineering professionals
- ❖ Project managers involved in the planning, management, or approval of coastal developments

SEMINAR DATE AND TIME

14 June 2024

10:00 - 15:30

LOCATION AND VENUE

Chalmers Konferens & Restauranger
Huvudentrén, Chalmersplatsen 1
412 58 Göteborg

Attendance is free of charge, a light lunch and refreshments will be provided

REGISTRATION

To register please send an Email to:

Frank Thomsen

frth@dhigroup.com

Subject: Noise Seminar

Deadline for registration:

May 31, 2024

INSTITUTIONAL WEBPAGES

DHI: <https://www.dhigroup.com/>

Svensk vindenergi: <https://svenskvindenergi.org/>

AGENDA

9:30 ● 10:00	Registration	12:00 ● 12:30	Mathias Andersson, Emilia Lalander
10:00 ● 11:00	Seminar Introduction Introduction seminar topic & objectives – Frank Thomsen, DHI. Regulatory developments and needs – speaker TBC. The developer’s perspective – Lena Sonnerfelt, Freja Offshore AB	FOI: Ongoing work for guideline development for assessing underwater noise impacts in Sweden from piling and operational noise; project WindNoise	
11:00 ● 11:30	Coffee Break	12:30 ● 13:30	Lunch
11:30 ● 12:00	Frank Thomsen, Naomi A.M. Tuhuteru, DHI: Overview of best practices in managing the impacts of underwater noise on marine life Effects of noise on aquatic life - risk-based approach – noise modelling – impact assessment – new technologies - noise mitigation	13:30 ● 14:30	Group Breakout Session
		14:30 ● 14:40	Comfort Break
		14:40 ● 15:10	Plenary Review of Session Q&A
		15:10 ● 15:30	Concluding Coffee and Tea

HOST - SPEAKERS

Frank Thomsen is the Principal Scientist – Underwater Acoustics at DHI A/S (Denmark). He has over 25 years’ experience in marine ecosystem-based research. His specialties are bioacoustics of marine mammals, effects of noise on aquatic life, marine risk assessments and EIA. He has been a policy advisor for national and international bodies such as Defra (UK) and the European Commission.

Naomi A.M. Tuhuteru is the Head of Offshore Biodiversity and Ecology at DHI A/S. Naomi is a marine mammal scientist with a master’s degree from renowned University of St Andrews, Scotland where she worked on the foraging ecology of killer whales. Since 2019, she has worked at DHI focussing on ecological modelling and assessments of the effects of noise on marine mammals.

GUEST - SPEAKERS

Lena Sonnerfelt is Head of consent and Project manager at Freja Offshore AB. She is a geoscientist and geophysicist with a background within both mining and at the Swedish radiation safety authority. She has more than 15 years of experience regarding permitting processes and regulatory work. At Freja Offshore AB she is responsible for applications including EIA assessments for wind farm projects located in the Swedish economic zone.

Mathias Andersson has a background in fish ecology and bioacoustics with more than 15 years of experience in measuring sound in the water and estimating anthropogenic impact on marine ecosystems. He is a member of the European expert group TG-Noise, and a Swedish representative in Helcom’s Expert Group (EG-Noise) and Ospar’s Intersessional Group (ICG-Noise). He leads the national work on guideline and framework development related to underwater noise from offshore windfarms.

Emilia Lalander has a background in oceanography with over a decade of experience in underwater acoustics. She is a member of TG-Noise and serves as a Swedish representative in EG Noise and ICG-Noise. She is currently the project leader for the Swedish national monitoring of underwater noise and the newly started WindSound project.

