

Nature Inclusive Design
WEBINAR

Nature-Inclusive Scour Protection

Creating Value for Nature and the Wind Industry

featuring

NATUUR & MILIEU

VATTENFALL

RWE

Ministerie van Economische Zaken en Klimaat

4 November 2026
11:00 – 12:15 CET



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Offshore Coalition for Energy and Nature

Renewables Grid Initiative

Co-funded by the European Union

What to expect today?

Presentation of **NID scour protection projects**, including challenges faced and opportunities identified

Deep dive on if they should become **standard practice**

Deep dive on if this is **truly** a **cost-effective solution**

Q&A
Your time to ask anything you want to know

Today’s speakers



Marjolein Kelder

Natuur & Milieu /
The Rich North Sea



Helen Elphick

RWE



Luuk Jungerling

Dutch Ministry of Economic Affairs and Climate Policies



Volker Türk

RWE



Matthieu Povidis-Delefosse

Vattenfall

Who is in the room today?

- Offshore wind developers
- Transmission system operators
- Environmental & climate NGOs
- Academic and research institutions
- Governmental bodies
- Supply chain companies
- Engineering companies
- Nature protection consultancies



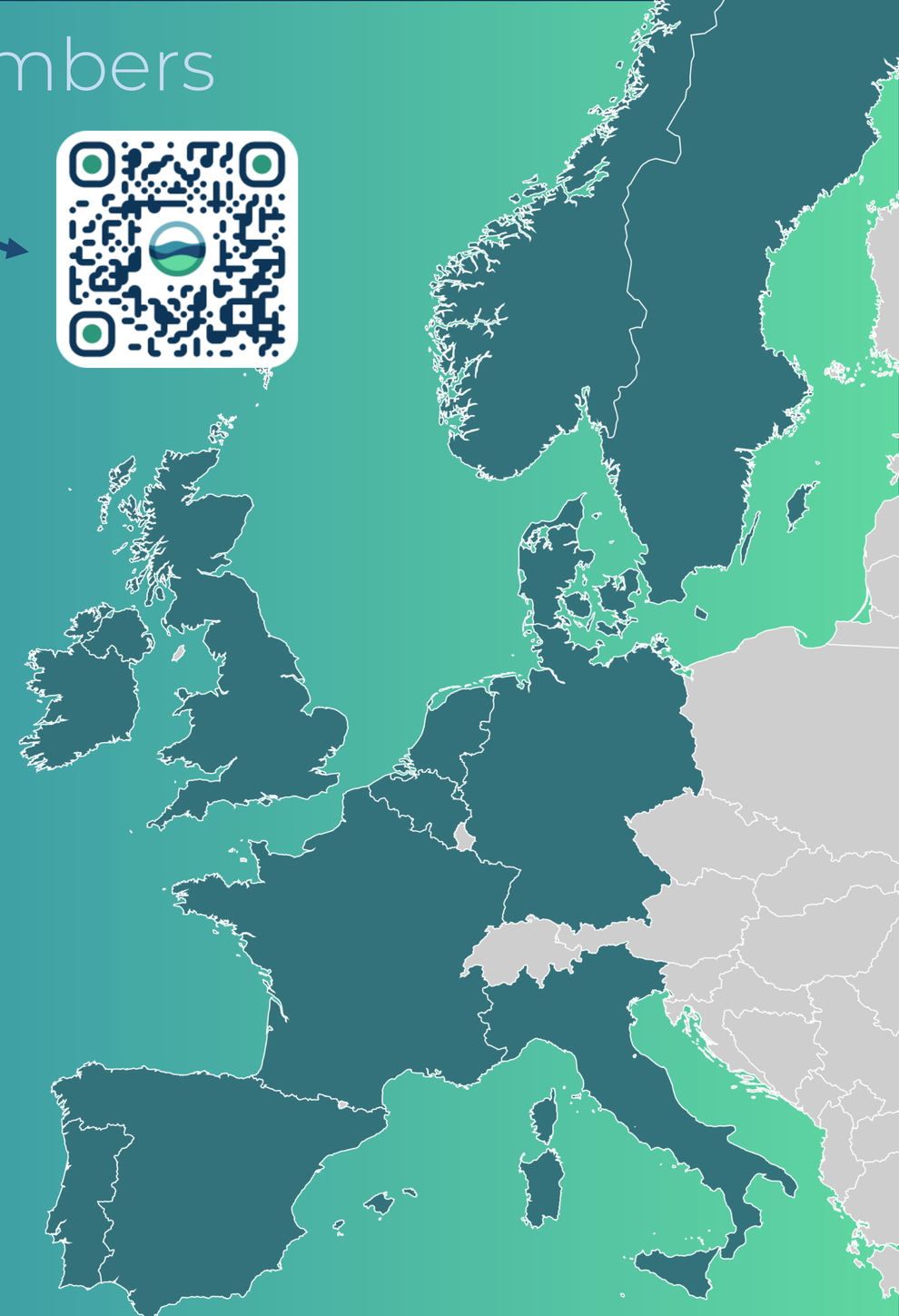
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Offshore Coalition for Energy and Nature

Our Members

11 Grid Operators
20 Wind Power Companies
21 Civil Society Organisations

Collaborating for a green Europe!

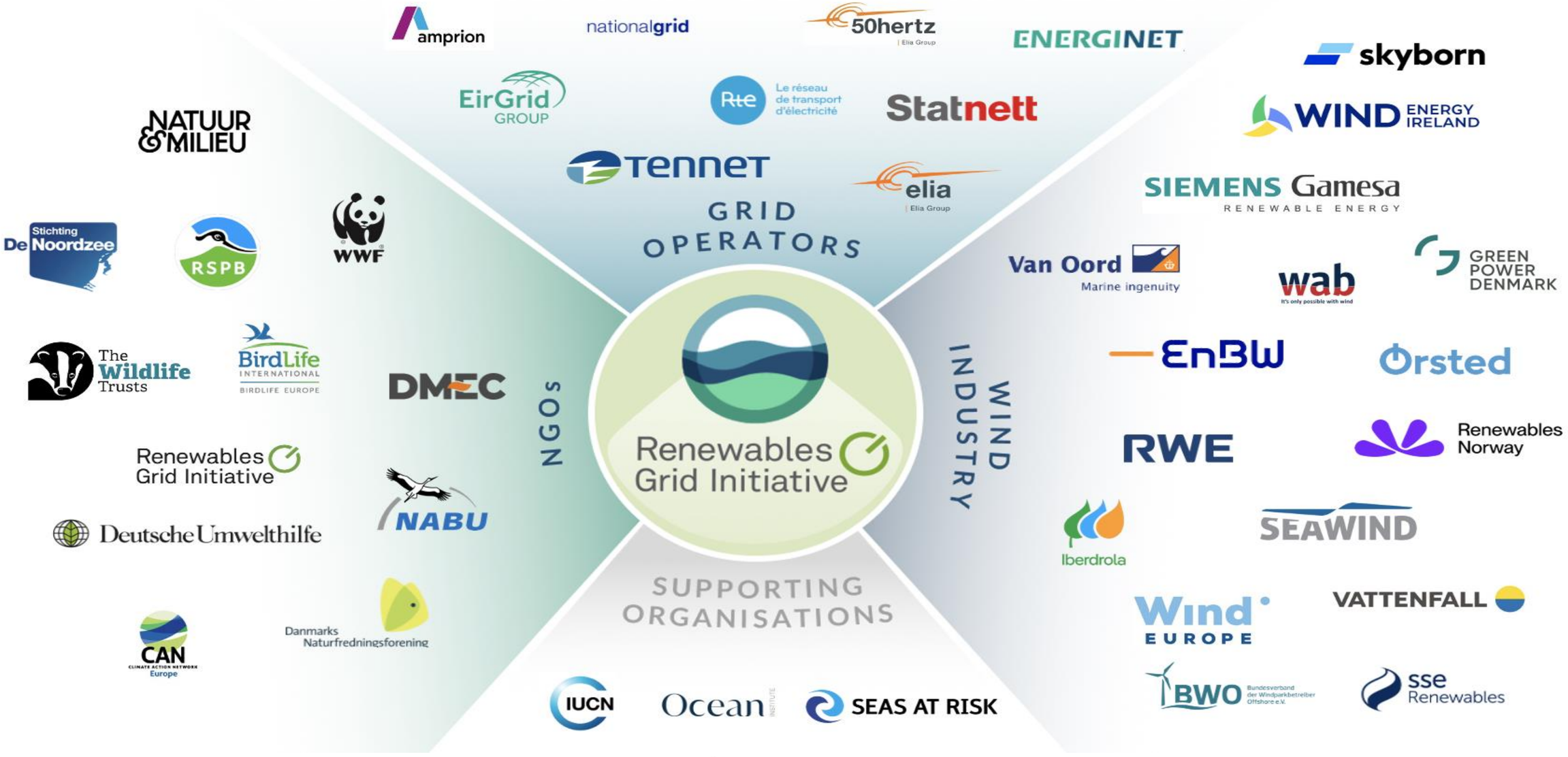


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NORTH & BALTIC SEAS

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MEDITERRANEAN SEA



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NORTH & BALTIC SEAS

Our Members
& Supporting Organisations



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Our Members

Maritime Spatial Planning

Coexistence with other activities

Auctioning – ecological criteria

Mitigation of environmental impacts

Nature Inclusive Design

Restoration of marine ecosystems

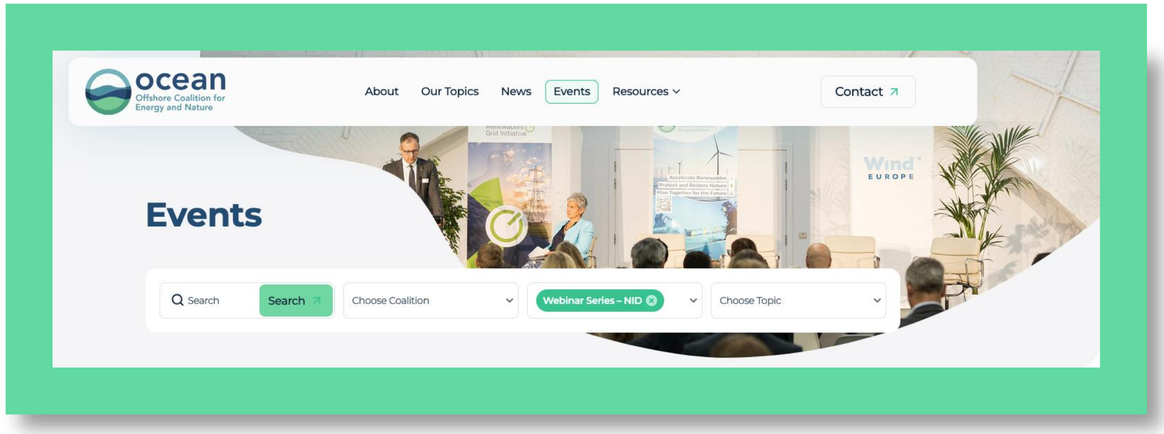
Management of environmental data

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What topics do we cover?

Since 2022....

NID webinar series



Past Events



20 May 2025 Webinar Series – NID

NID4BirdLIFE: Nature-Inclusive Design solutions to support the Black-legged Kittiwake in Belgium



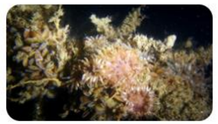
13 February 2025 Webinar Series – NID

Mapping NID Solutions: An Exploration of the Rich North Sea Toolbox



26 October 2023 Webinar Series – NID

Subsea Grids Supporting Marine Biodiversity: Improving Undersea Resiliency with Nature Materials



26 January 2023 Webinar Series – NID

Enhancing marine life around the subsea electricity grids in the Dutch North Sea



29 November 2022 Webinar Series – NID

Belgian Energy Island: Collective Early Planning for a Nature Positive Contribution in Offshore Electricity Infrastructure

NID Scour Protection projects in OCEaN's Database

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OCEaN Energy & Nature Database

2018



North Sea Netherlands

Oyster Broodstock Structures in Eneco Luchterduinen offshore wind farm

2019



North Sea Netherlands

Eco-friendly scour protection at the Borssele offshore wind farm (Site V)

2020

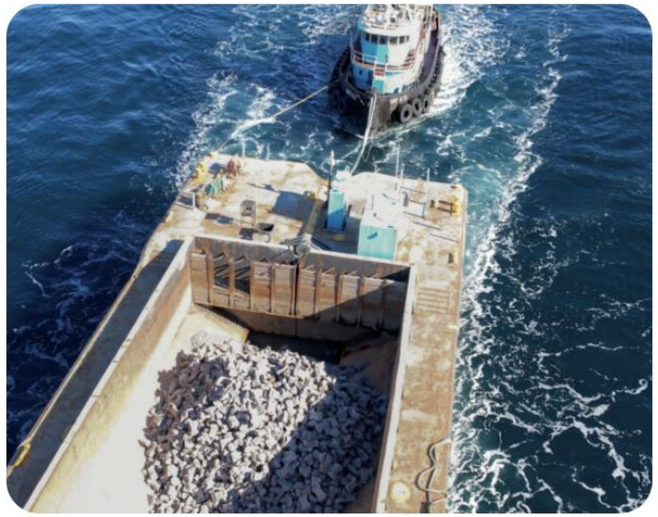


North Sea Netherlands

Oyster Broodstock Structures at the Blauwwind (Borssele III & IV) Offshore Wind Farm

OCEaN Energy & Nature Database

2025



Americas USA

ECOncrete Scour Protection: Fisheries and Biodiversity Research Project

2021



North Sea Netherlands

Artificial rock reefs bring new life to Hollandse Kust Zuid

2024



North Sea Netherlands

Droppable Oyster Structures (DOS) at Borssele Offshore Wind Farm 1&2

OCEaN Database on Energy and Nature

2025



North Sea Netherlands

Biodiversity-enhancing scour protection at the Offshore Test Site

2025



North Sea United Kingdom

Reef Enhancement for Scour Protection (RESP)

NID Scour Protection: Creating value for nature and the wind industry

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Definition

NID scour protection *"refers to the optimisation of the standard scour protection design for a monopile or a substation", whereby, in addition to fulfilling its primary engineering function, the design incorporates features intended to enhance ecological habitat and biodiversity (A. Hermans; O. Bos, , I. Prusina, 2020).*

Options: Additional rock layer, grading armour layer, units on the scour protection layer (habitat pipes, fish hotels, Reefball and Layer cakes, Reef cubes, 3D printed units, ECO armour block), and the replacement of the scour protection materials.

Learn more on our website

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