

# ICES work on the Roadmap for Offshore Renewable Energy (ORE) and ORE-related advice requests

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NWWAC/PelAC Webinar on EU fisheries and the impact of Offshore Renewable Energy Developments



Science for sustainable seas



# ICES work on the Roadmap for Offshore Renewable Energy (ORE) and ORE-related advice requests

## Purpose:

- (i) To inform you about the ICES Offshore Renewable Energy (ORE) Roadmap and ORE-related advice requests; and
- (ii) to answer any questions you may have on the science priorities we've identified.

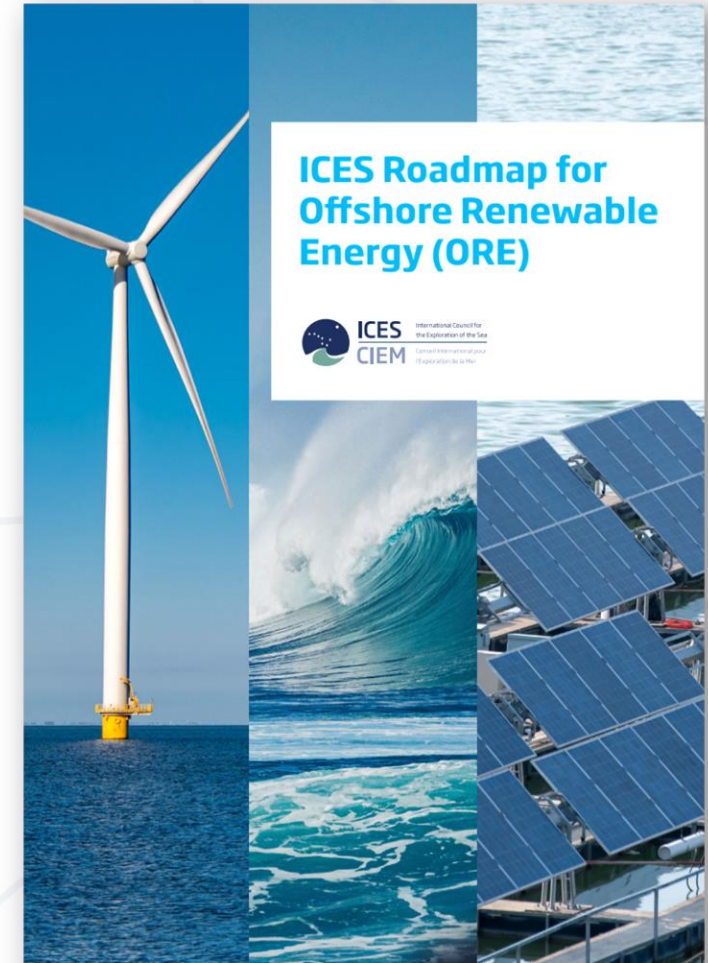
# ICES ORE Roadmap – Action Plan



## Goals

1. Capacity building for science and advice.
2. Data coordination & collection
3. Science development, application of models, process studies, and long-term observations
4. Guidelines for the use of best available information, methods and science to support advice.

*Set of OBJECTIVES framed around*



[ICES ORE Roadmap 2024](#)

# Priority Actions in 2024/ 25



## Subject to annual review and up-date

1. Assess the trade-offs between ORE developments and other sectors.
2. Coordination of research and data to facilitate the provision of regional assessments in support of national government and industry needs.
3. Development and publication of guidelines and standards for monitoring and assessment in the ORE sector.
4. Assessment of ORE developments on fishery surveys, fisheries management, and ICES recurrent advice.



WKWIND 2024

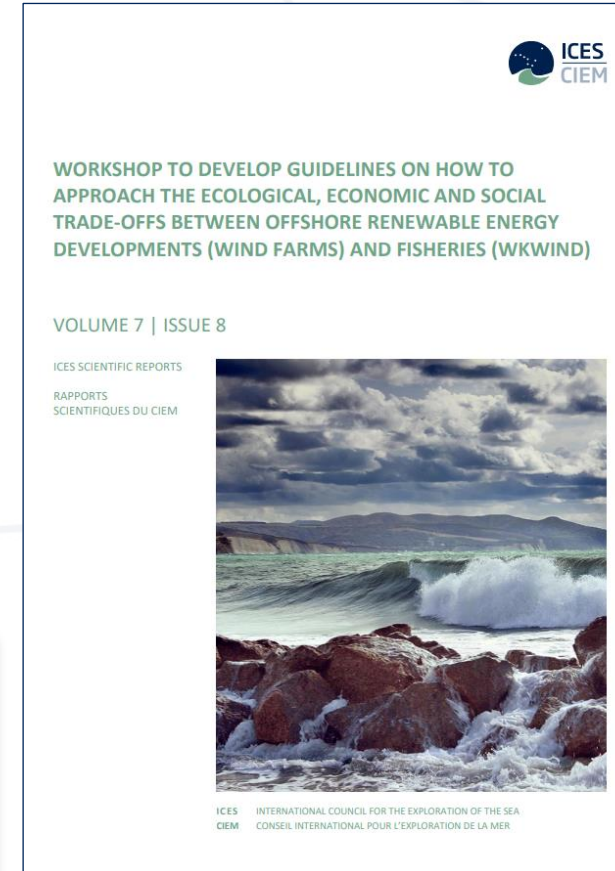


# WKWIND Report findings

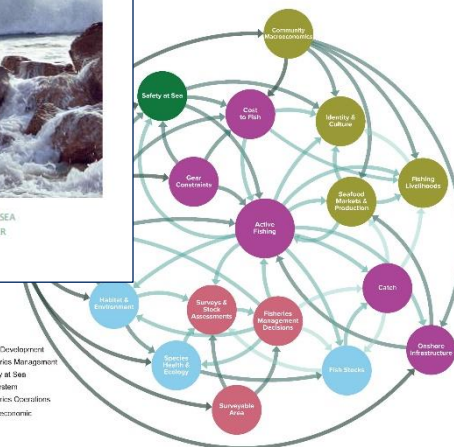


Guidelines on how to approach the ecological, economic and social trade-offs between ORE and fisheries.

1. Considerations required to conduct trade-off assessments.
2. Scope of essential ecosystem components to assess.
3. Proposed an initial “social ecological systems framework” for trade-off assessments.



WKWIND 2024



# Workshops Planned in 2025

- **WKOMO** – Workshop to scope harmonized regional monitoring schemes to assess the impact of offshore windfarms on fish, pelagic, benthic communities and ecosystem functions (26 – 28 May)
- **WKDSIM** – Workshop to Develop an ICES fishery independent Survey Mitigation Strategy (23 – 27 June)



# ORE-related advice requests



**DGMARE:** Socio-economic impacts of ORE on fisheries and methodologies to model (cumulative) impacts in the Celtic Sea, Greater North Sea and Baltic Sea (ICES ecoregions). [[link to full request](#)]

**GNSBI:** Cumulative impact assessment (CIA). [[link to full request](#)]

# DGMARE request



**Context:** EU strategy on offshore renewable energy (and MS ambitions). European Wind Power Action Plan. Communication on delivering on the EU's offshore energy ambition.

**Overall objective:** understand better the social and economic impacts of fast large-scale ORE developments on the fisheries sector and the impacts of ORE on marine ecosystems.

**Geographic coverage:** Celtic Sea, Greater North Sea and Baltic Sea (ICES ecoregions).

**Focus:** Bottom-fixed offshore wind devices but evidence from floating wind and ocean energy (tidal, wave, etc.) will be considered if providing important insights.

**Timeline:** For 11 April 2025. Involves at least 11 existing ICES expert groups. ICES structured elements of the request into three parts to provide coherent areas of work for our experts.

**WKCOMPORE:** 3 – 7 February 2025 – to compile scientific evidence to support the request.

# GNSBI request



**Context:** The GNSBI provides a regional platform to align maritime spatial planning and cross-boundary management processes in the Greater North Sea and Celtic Seas.

**Overall objective:** Advise on use of CIA to evaluate management scenarios.

**Geographic coverage:** Celtic Sea, Greater North Sea (ICES ecoregions).

**Focus:** Reviewing and defining common principles for existing CIA tools. Application of recommendations for MSP scenario evaluation (including offshore wind).

**Timeline:** For 5 Nov 2025. Engaging primarily WGCEAM experts.

## Expert groups leading the science objectives

Three expert groups from the Human Activities, Pressures, and Impacts Steering Group are leading the science objectives.

### Core groups



The three working groups have a standing dialogue to discuss all ORE related issues and coordinate the flow of work between groups.

**WGORE:** evaluates current development and future issues of ORE and assesses the effects, including cumulative effects, of ORE.

**WGOWDF:** works on the interaction between fisheries and offshore wind energy development, including the effect of ORE on fisheries and fishing communities and scientific surveys.

**WGMRED:** works on benthic and renewable energy related research, including cause-effect relationships of construction and operation.

Many other expert groups have terms of reference addressing ORE science objectives (listed below), and more groups will develop ORE-related terms of reference to address ORE goals and objectives.

### Human Activities, Pressures and Impacts Steering Group

- Working Group on the Effects of Extraction of Marine Sediments on the Ecosystem
- Marine Chemistry Working Group
- Working Group on Marine Protected Areas and other Spatial Conservation Measures
- Working Group on Spatial Fisheries Data
- Working Group on Cumulative Effects Assessment Approaches in Management
- Working Group on Marine Habitat Mapping
- Working Group on Introductions and Transfers of Marine Organisms
- Working Group on Fisheries Benthic Impact and Trade-offs
- Working Group on the Ecosystem Effects of Fishing Activities

### Human Dimension Steering Group

- Working Group on Marine Planning and Coastal Zone Management
- Working Group on Social Indicators
- Working Group on Economics
- Working Group on Balancing Economic, Social and Ecological Objectives

### Integrated Ecosystem Assessments Steering Group

- Working Group on Integrative, Physical-biological and Ecosystem Modelling

### Aquaculture Steering Group

- Working Group on Open Ocean Aquaculture

### Data Science and Technology Steering Group

- Working Group on Fisheries Acoustics, Science and Technology

### Ecosystem Observation Steering Group

- Baltic International Fish Survey Working Group
- Network for surveys towards ecosystem advice in the Greater North Sea

### Ecosystem Processes and Dynamics Steering Group

- Joint OSPAR-HELCOM-ICES Working Group on Marine Birds



(Source: iO.wp.com)

# *Thank you for listening*

For further information please contact:

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Questions?



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