

# EMODnet for Business: Marine data for the offshore renewable energy sector

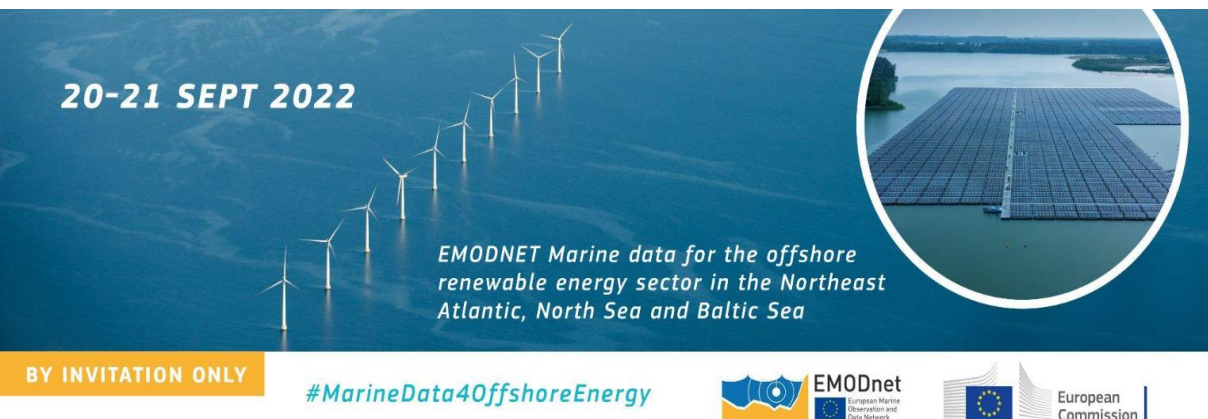
17th EMODnet Steering Committee  
7-8 November 2022

Kate Larkin and Megan Tijssens –  
EMODnet Secretariat

[secretariat@emodnet.eu](mailto:secretariat@emodnet.eu)

# EMODnet for Business: Offshore Renewable Energy Workshops 2022

- **Two online workshops** in September and October 2022 (Regional sea-basin specific)
- **Mapping of > 200 experts across key actors and stakeholders across the Offshore Renewable Energy Value Chain:**
  - Private sector (operators, consultancies working in ORE sector)
  - European policy makers with activities related to ORE, Maritime Spatial Planning (MSP)
  - National authorities (ministries and those involved in the licensing, MSP)
  - EU and Interreg projects related to ORE e.g., EU-SCORES, SafeWave, BLUE GIFT, MATES;
  - Offshore Coalition for Energy and Nature (OCEaN) founded by the Renewables Grid Initiative (RGI) with members including NGOs e.g., WWF, BirdLife, transmission system operators e.g., Elia and energy developers e.g., Ørsted and WindEurope
  - ICES WG offshore wind development and fisheries & WG offshore renewable energy;
  - European Court of Auditors (audit on how EC uses offshore renewable energy)
  - European Technology and Innovation Platform for Wind (ETIP Wind);
  - European Wind Energy Technology Platform.



**20-21 SEPT 2022**

*EMODNET Marine data for the offshore renewable energy sector in the Northeast Atlantic, North Sea and Baltic Sea*

BY INVITATION ONLY

#MarineData4OffshoreEnergy

EMODnet  
European Marine  
Observation and  
Data Network

European  
Commission

This banner features a blue background with a row of offshore wind turbines on the left and a circular inset on the right showing a large array of solar panels in a body of water. The text is white and yellow.



**SAVE-THE-DATE**  
**20-21 OCTOBER 2022**

*EMODnet Marine data for the offshore renewable energy sector in the Mediterranean Sea and Black Sea*

BY INVITATION ONLY

#MarineData4OffshoreEnergy

EMODnet  
European Marine  
Observation and  
Data Network

European  
Commission

This banner features a light blue background with a large offshore wind turbine on the left and a circular inset on the right showing a large array of solar panels in a body of water. The text is white and yellow.

# EMODnet for Business: Workshops 2022

- **Increase the awareness and use of EMODnet services by the offshore renewable energy sector**, communicating EMODnet's diverse, open source marine data offer and services, particularly considering the recent centralisation and new Map Viewer;
- **Explore opportunities and applications for EMODnet's diverse open source *in-situ* marine environmental data and human activities data and data products to support and innovate the offshore energy sector in Europe**, across different platforms and the different geographical areas identified;
- Gather feedback from experts from private and public sectors on **marine environmental and human activities data/data products needs and requirements across the offshore renewable energy value chain** (licensing and siting, operations at sea, environmental impact assessments, etc.) and across different European regional seas;
- Discuss **opportunities for data sharing/ingestion of marine environmental and human activities data produced by the ORE into EMODnet**;
- Provide **information on data collection, data coordination and data needs to support the EC Ocean Observation Initiative**.

# EMODnet for Business: Workshops 2022

- **Day 1:** How EMODnet marine *in situ* data can be used by the offshore renewable energy sector
  - **EMODnet *in situ* marine data ‘offer’ demonstrations** (Secretariat and multiple thematic Coordinators);
  - **User testimonials and Use Cases of EMODnet (and wider) marine data** being used to support, optimise and innovate the offshore renewable energy sector (public and private sector users);
  - Gather feedback and recommendations on **existing and emerging marine data needs and requirements** to support the offshore renewable energy sector (breakout discussions);
- **Day 2:** How sharing your marine data can benefit the offshore renewable energy sector
  - Take stock of Day 1 key take-aways on the EMODnet ‘offer’ and recommendations on data needs and requirements;
  - Communicate and present the **benefits of data sharing and the EMODnet Data Ingestion Service** (Secretariat and EMODnet Data Ingestion Coordinators);
  - Discuss **challenges and barriers for data sharing by the offshore renewable energy sector** and how EMODnet Data Ingestion can support this process (breakout discussions);

# EMODnet for Business:

## Workshop 1: Northeast Atlantic, North Sea and Baltic Sea

- Over 65 participants accepted invite (high private sector (including EC MKEG) and national authority attendance);
- Use cases from Van Oord, Marine Power Systems, Ørsted, Wave Piston, RGI and GSI with focus on EMODnet and also including Copernicus Marine Service.

### Use cases and testimonials

1. A representative from **Latvia** noted that EMODnet data will be used for the country's maritime spatial plan interim assessment is due in 2023. They showed interest in shipping traffic, available as a web service (in WMS and WCS formats, as well as raster files);
2. **Marine Power Systems in South Wales, UK** explained how the company uses **EMODnet data to find the best deployment site for a combined floating wind and wave energy system**. The first multi-megawatt demonstration will be placed next year in Bay of Biscay, near Bilbao;
3. **'EMODnet is one of the main data sources for European wind farms that we use in the early phases of development!'** Ørsted
4. **'Using EMODnet could help with our initial analysis on the climate impact and social impact of our offshore renewable energy projects.....'** Wavepiston

<https://webgate.ec.europa.eu/maritimeforum/en/node/7382>

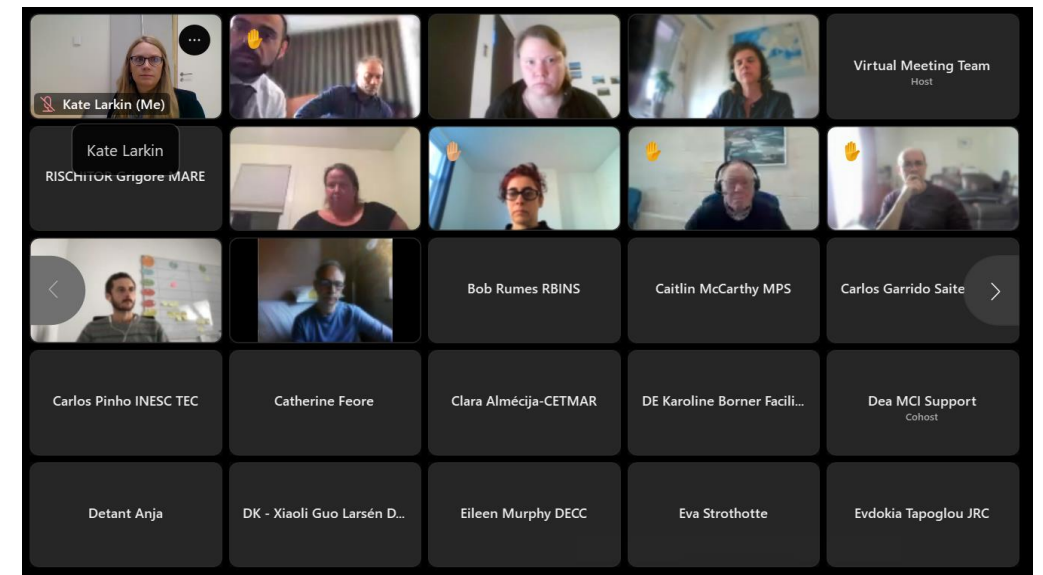


Image credit: Workshop 1 (Kate Larkin)

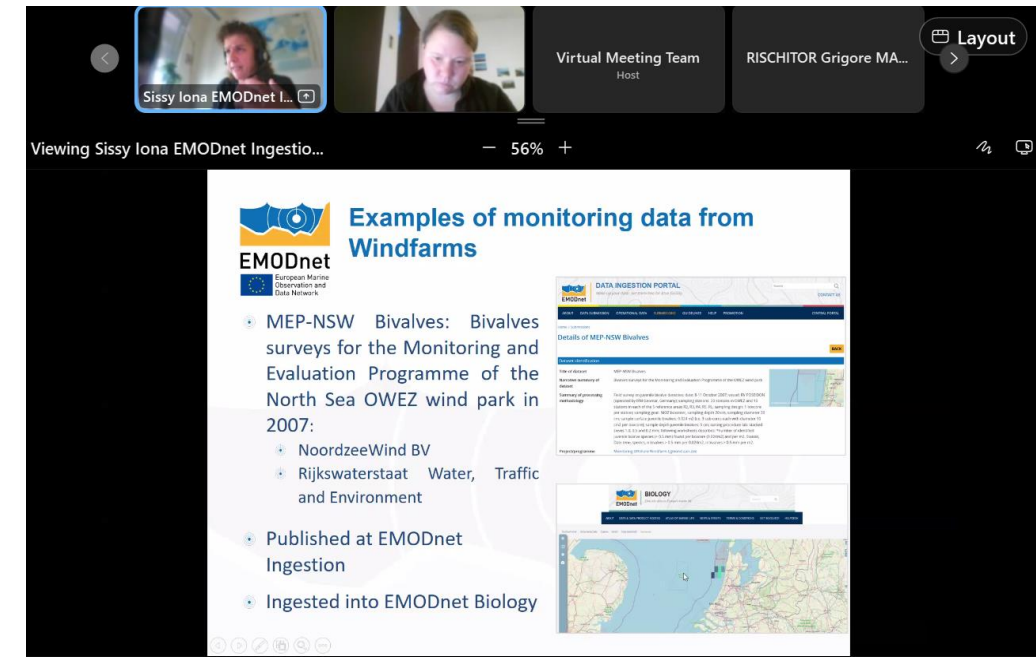


Image credit: Sissy Iona (HCMR)



# EMODnet for Business:

## Workshop 2: Mediterranean and Black Sea

- Over 70 participants accepted invite (High attendance by national authorities and NGOs, less private sector than workshop 1)
- Use cases from HCRM, AZTI, Birdlife and the University of the Aegean;
- ORE is an emerging sector in this region e.g., in the Black Sea there are no wind farms. EMODnet can help inform the technical and feasibility studies and policy incentives to support this process.

### Use cases and testimonials

1. ***'All model tools that we produce would not be possible if we did not have access to the data and data products provided by EMODnet!'*** AZTI
2. A representative of **centre for coastal studies (CCMS)** in **Bulgaria** noted that **EMODnet Human Activities and EMODnet Seabed Habitats data are important for MSP in Bulgaria and for collaboration with other Member States and countries for cross-border MSP in the Black Sea.**
3. A stakeholder from **Romania** noted that **"EMODnet is a reference for standardizing data for Maritime Spatial Planning requirements"**.

<https://webgate.ec.europa.eu/maritimeforum/en/node/7383>

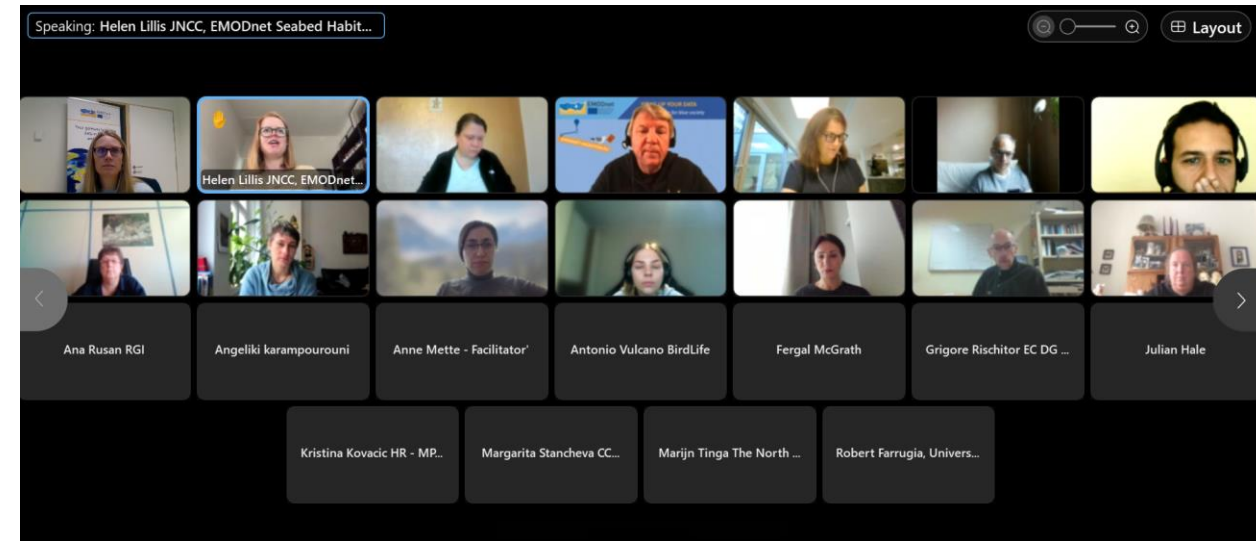


Image credit: Workshop 2 (Kate Larkin)

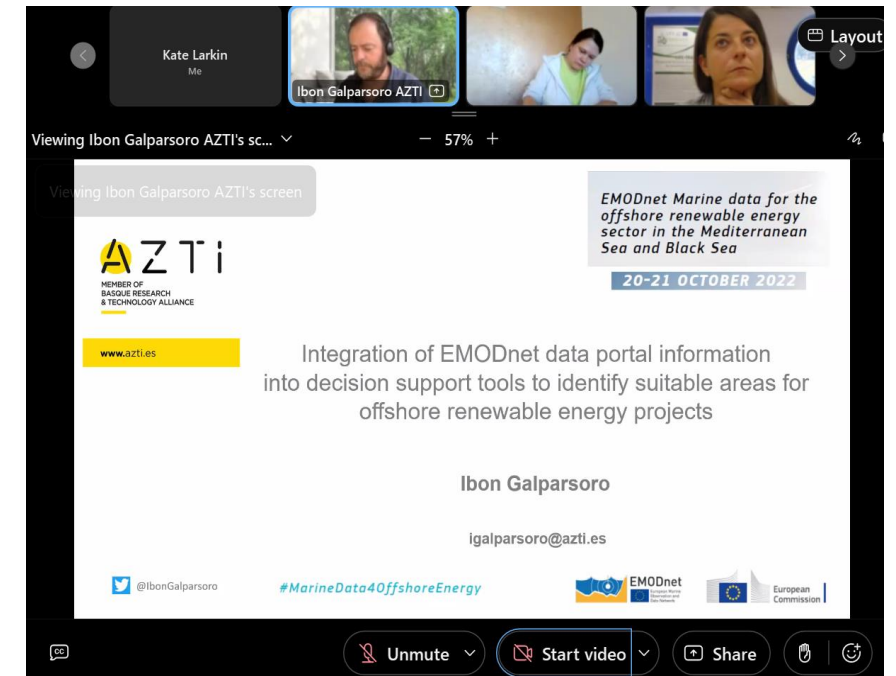


Image credit: Ibon Galparsoso (AZTI)

# EMODnet for Business: Workshop 1 & 2 outputs

## Data needs and requirements (examples)

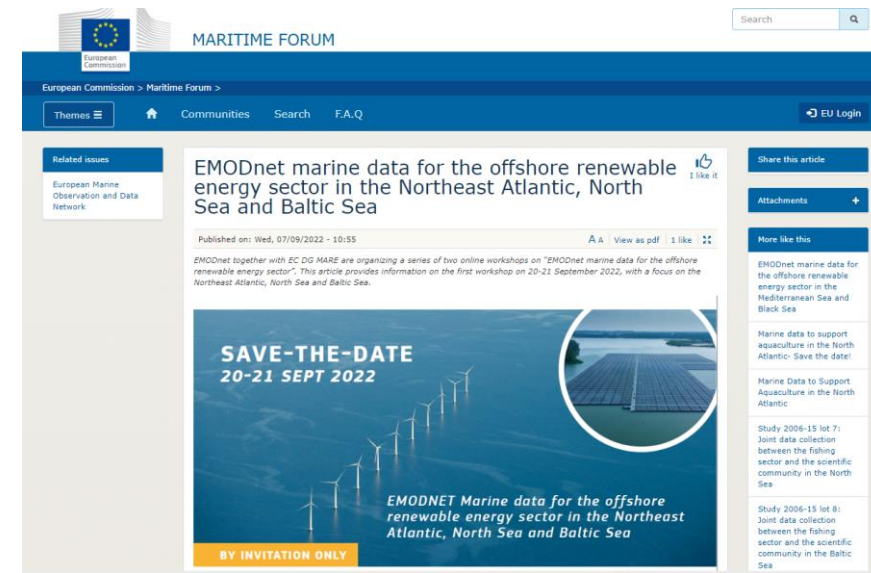
- Tidal currents
- Soil strengths for wind farm foundations
- Ornithological (bird) datasets
- Marine mammals data
- Carbon sinks of marine ecosystems
- Sensitivity mapping for biodiversity (for ecological corridors)
- Cumulative impacts

## Challenges and Barriers to data sharing (examples)

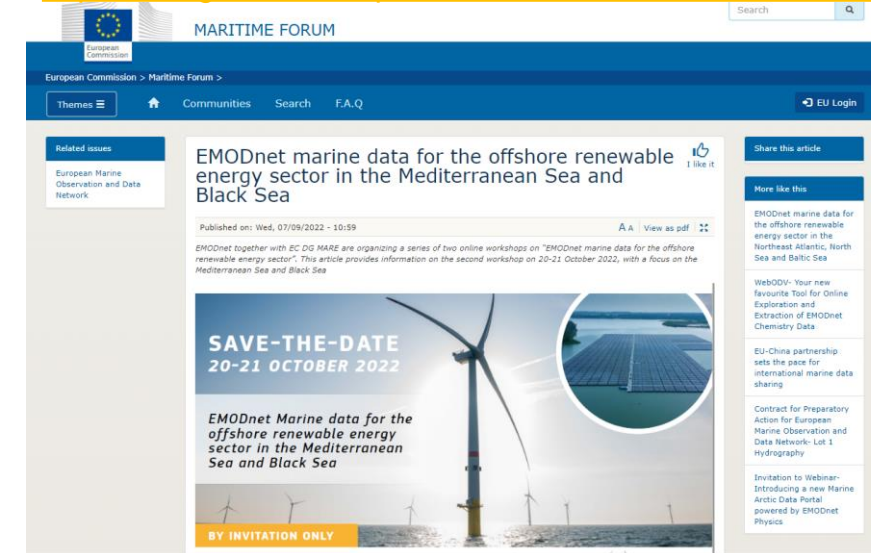
- Commercial sensitivity
- Lack of a data 'steward'
- Licensing tender could include mandate to share data with EMODnet
- Communicate more how simple and easy data submission to EMODnet is
- Need more incentives e.g., personally acknowledge private companies for environmental data sharing as substantial contributions to EU Green Deal, etc
- Communicate more the benefits of data sharing e.g., companies receive free standardisation of their data

## EMODnet follow-up (ongoing)

- 2 reports will be published on EC Maritime Forum by end of 2022 (see urls on this slide)
- Follow up with EMODnet Coordinators to assess data gaps and requirements
- Follow up with EMODnet Data Ingestion
- Develop use cases from both workshops for the EMODnet Central Portal
- Targeted dialogue for EMODnet Associated Partnership (e.g., RGI, Ørsted....)
- Targeted communication on EMODnet centralization and added value for ORE (early 2023)
- Bringing key messages of EMODnet for Business workshops to wider audiences



<https://webgate.ec.europa.eu/maritimeforum/en/node/7382>



<https://webgate.ec.europa.eu/maritimeforum/en/node/7383>

Image credits: EC Maritime Forum

# EMODnet for Business: Attending wider business events



EMODnet @EMODnet · Oct 19

Today [#EMODnetSecretariat](#) attends this [@RenewablesGrid](#) [@WindEurope](#) event, bringing input from our workshops on [#MarineData](#) and [#dataproducts](#) for [#OffshoreRenewableEnergy](#)! Follow [#EMODnet](#) & check our Central Portal & the EC Maritime Forum for news! [@EU\\_MARE](#)



ENERGY & NATURE

Speeding Up  
Nature Positive  
Offshore Energy  
Infrastructure  
Deployment

Brussels, Belgium  
19 October 2022  
09:30 - 17:00 CEST

Renewables Grid Initiative Wind\* EUROPE ocean

Image credit: EMODnet twitter



# EMODnet for Business: Input to UN Global Compact's Ocean Stewardship Coalition, WG Offshore Renewables and Sustainable Ocean Planning



Improving marine knowledge access and private-public data sharing at National, European and International levels:  
Examples from the European Marine Observation and Data Network (EMODnet)

UN Global Compact: MSP & OFW

5th October 2022

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The European Marine Observation and Data Network (EMODnet) is financed by the European Union under Regulation (EU) No 508/2014 of the European Parliament and of the Council of 15 May 2014 on the European Maritime and Fisheries Fund.

Ocean Business Leadership for Sustainable Ocean Management:  
Offshore renewables and sustainable ocean planning



OCEAN  
STEWARDSHIP  
COALITION

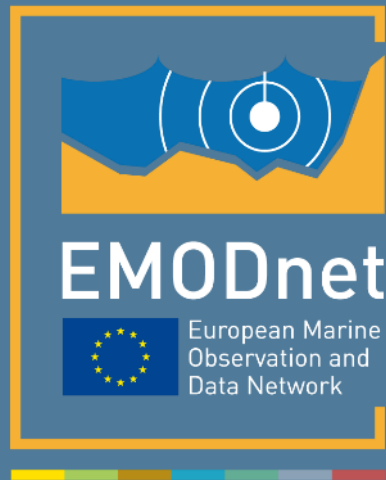


ROADMAP TO INTEGRATE  
CLEAN OFFSHORE  
RENEWABLE ENERGY INTO  
CLIMATE-SMART MARINE  
SPATIAL PLANNING

Image credit: EMODnet

Image credit: Ocean Stewardship Coalition

- The series of four weekly meetings gathered key knowledge stakeholders to **identify, communicate, and address the challenges associated with Maritime Spatial Planning for offshore renewables.**
- The **EMODnet Secretariat and EMODnet Human Activities** presented EMODnet to the international community bringing key updates on EMODnet's offer of marine environmental, human activities data and data products, including the hosting of National EU Member State Maritime Spatial Plans.
- **Key messages and testimonials from the recent EMODnet workshops on "Marine Data for the Offshore Renewable Energy sector"** were also presented
- OSC are developing a policy brief and will **communicate key messages at COP27**



[emodnet.ec.europa.eu](http://emodnet.ec.europa.eu)

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*Your gateway to marine data in  
Europe*





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