

MSP Assistance Mechanism Background Study

Future uses/needs of the seas:

Integration of climate-smart trends and new technologies in maritime spatial planning

Patrycja Enet

European Maritime Spatial Planning Assistance Mechanism (EU MSP Platform)

Workshop on Climate-smart Maritime Spatial Planning (MSP) for Future uses/needs of the Seas

27th of March 2025

Maritime Spatial Planning (MSP) and Climate Change: Climate-smart MSP



 **United Nations**

 Framework Convention on Climate Change

OceanDialogue2024

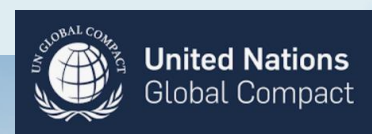
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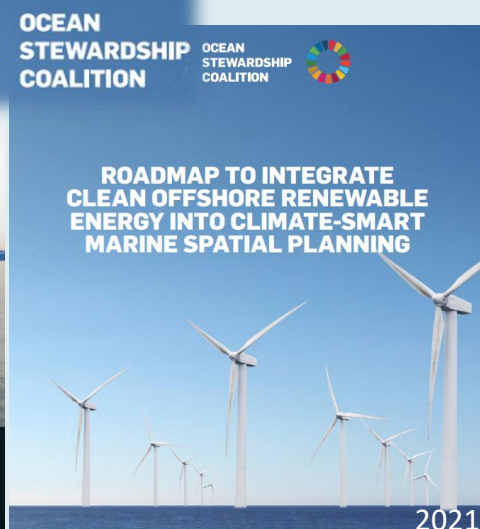
Ocean and climate change dialogue 2024

<https://unfccc.int/event/ocean-and-climate-change-dialogue-2024>

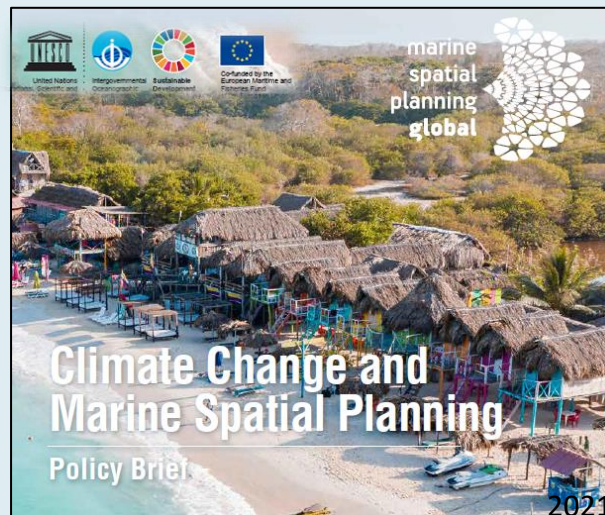


2021

<https://unglobalcompact.org/take-action/ocean>



2021



2021

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PRIMARY RESEARCH ARTICLE

Bright spots as climate-smart marine spatial planning tools for conservation and blue growth

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Integrating climate change in ocean planning

Catarina Frazão Santos[✉], Tundi Agardy, Francisco Andrade, Helena Calado, Larry B. Crowder, Charles N. Ehler, Sara García-Morales, Elena Gissi, Benjamin S. Halpern, Michael K. Orbach, Hans-Otto Pörtner & Rui Rosa

Nature Sustainability **3**, 505–516 (2020) | [Cite this article](#)

Accounting for climate change in MSP: Experiences and lessons learnt

11 Sep (Wed): 15:30 – 18:00
12 Sep (Thu): 09:00 – 10:30 / 11:00 – 12:00 / 13:15 – 14:15

Joint theme session by ICES Working Group Marine Planning and Coastal Zone Management (WGMPCZM) and MSPglobal Initiative

ICES CIEM

Annual Science Conference
9–12 September, Garshead, UK

2024

[nature](#) > [npj.ocean.sustainability](#) > [perspectives](#) > [article](#)

Perspective | [Open access](#) | Published: 12 March 2024

Key components of sustainable climate-smart ocean planning

Catarina Frazão Santos[✉], Tundi Agardy, Larry B. Crowder, Jon C. Day, Malin L. Pinsky, Amber Himes-Cornell, Julie M. Reimer, Sara García-Morales, Nathan J. Bennett, Amanda T. Lombard, Helena Calado, Martinez Scherer, Wesley Flannery, Lisa M. Wedding & Elena Gissi

npj Ocean Sustainability **3**, Article number: 10 (2024) | [Cite this article](#)

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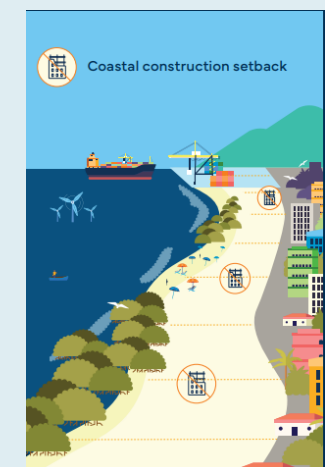
Policy Brief

Climate-smart MSP

Models with updated data
1°C warmer than before
Cooperation between institutions
oh, they have updated the protected zone!
reevaluation

MSP in a changing CLIMATE

MSP Assistance Mechanism background study on Future uses/needs of the seas





European
Commission

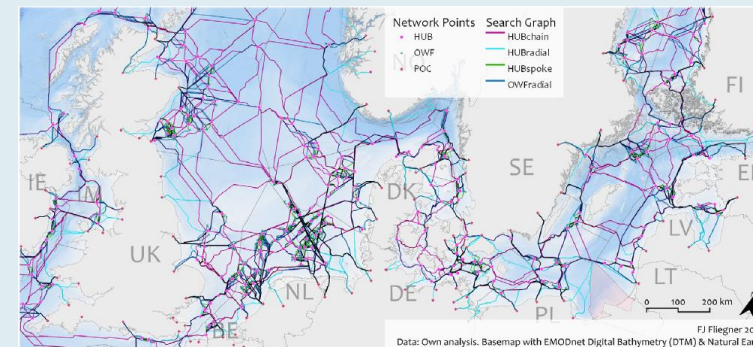
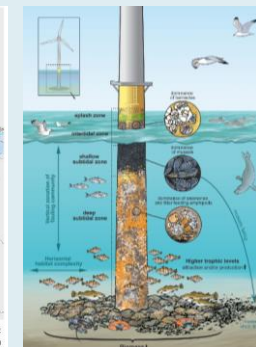
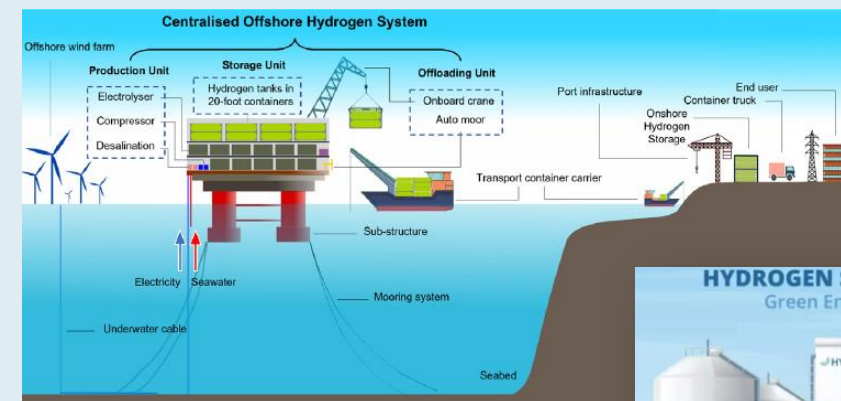
Future uses/needs of the seas: Integration of climate-smart trends and new technologies in maritime spatial planning

Background Technical Study

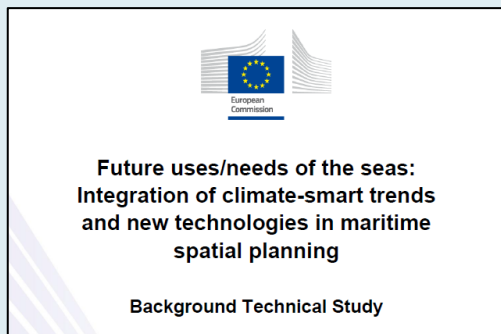
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Written by Patrycja Enet (MSP Assistance Mechanism North Sea Focal Point)
July 2024

https://cinea.ec.europa.eu/publications/future-usesneeds-seas-integration-climate-smart-trends-and-new-technologies-maritime-spatial_en



Future uses/needs of the seas: Advancing ocean-based climate actions in MSP



https://cinea.ec.europa.eu/publications/future-usesneeds-seas-integration-climate-smart-trends-and-new-technologies-maritime-spatial_en

Today's workshop:

- Current developments in climate-smart MSP
- Challenges and opportunities for integrating climate priorities into MSP
- Best practices and real-life experiences from EU countries
- Emerging technologies and trends shaping the future of MSP



- ➔ Understanding spatial claims and climate-smart trends and technological advances in MSP for the optimum sustainable development of all emerging sectors
- ➔ Cross-sectoral collaboration for effective spatial management and policy frameworks with leveraged input into system planning, including accrued digitalization and standardization
- ➔ Holistic integration of climate-smart technologies in MSP that incorporates emerging sectors in tandem for delivering efficient and effective climate actions
- ➔ Aligning climate mitigation and adaptation with MSP to enhance synergies between climate actions and sustainable development while minimizing potential trade-offs
- ➔ Leveraging emerging frontier technologies for informed spatial management and future planning alongside established technologies to reinforce evidence-based MSP
- ➔ Adaptive planning to integrate climate change trends and allow for update of emerging technologies to drive transformation to climate-smart MSP and synergistic approaches
- ➔ Capacity-building and technology transfer for climate-smart planning in transboundary settings to facilitate the uptake of novel practices and techniques in MSP



Key considerations of climate-smart emerging sectors:

- Planning driving climate-smart innovation at sea
- Technological needs and uptake of emerging sectors in climate-smart planning
- Optimizing sea space utilization with new technologies for planning
- Complexities and challenges with mainstreaming and up-taking technologies in planning
- Complementarity of climate-smart actions and technologies in plans
- Examples of technologies, approaches and techniques in climate-smart MSP – status, challenges and prospects in planning

Thank you!



Looking forward to today's discussion!

Patrycja Enet

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