

OCEAN ENERGY

GENERAL INFORMATION

WORK PLAN ACTIVITIES :

- WPA 7 Review new information on ocean energy

RESOLUTION : 8.6

3 GENERAL QUESTIONS

- Q1 : What goals we want to achieve for small cetaceans preservation ?
- Q2 : How to improve the indicators (including National Reports format) to measure the success of Parties and Ascobans to achieve these goals ?
- Q3 : What raw data we need ? How to collect it ? (National Reports ?) and how to analyse it ?

IMPACTS

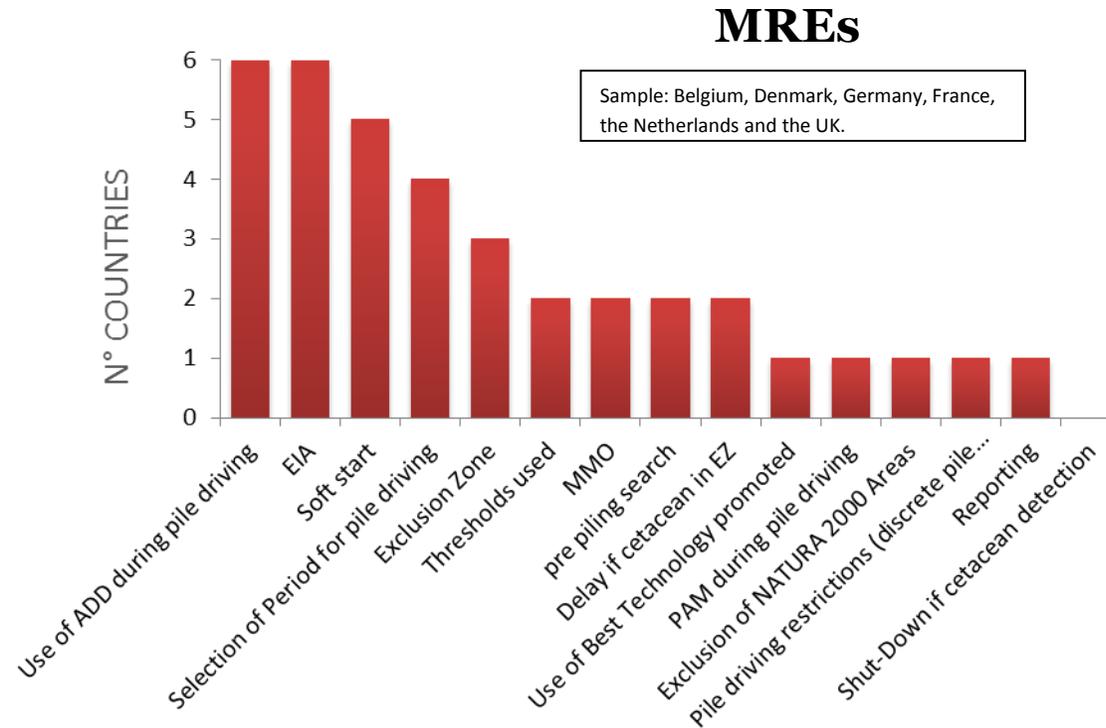
- Seabed occupation
- Barrier effect
- Noise
- Collisions

TECHNOLOGIES

- Offshore wind farm
- Current turbine
- Floating wind farm
- Wave turbine
- What about Oil&Gas ? Is it include in Ocean Energy ?

WORK ACHEIVED BY JNWG in 2013

Anthropogenic noise and marine mammals: **review of the effort** in addressing the impact of anthropogenic underwater noise in the ACCOBAMS and ASCOBANS areas



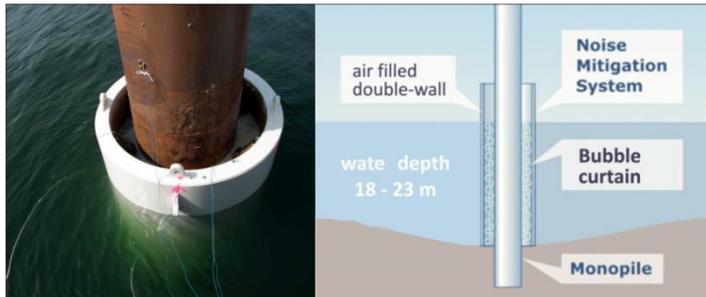
WORK ACHEIVED BY JNWG in 2013

Implementation of underwater noise mitigation measures by industries : operational and economical constraints.
Consultation of industries with the Cluster Maritime Français.

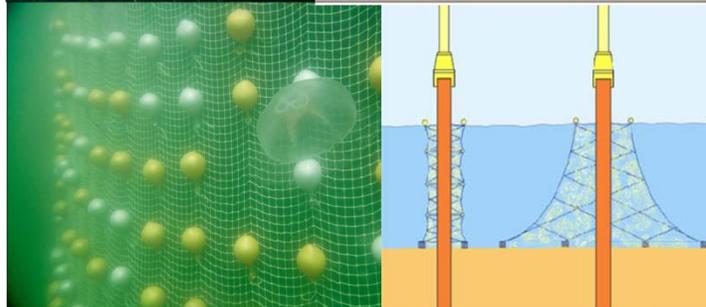
Measure	Economic	Technical	Questions	Constraint
Use of ADD	Low	Low	Effectiveness debated	1
Noise impact in EIE	Low	Low		1
Soft Start	Low	Low	Effectiveness?	1
MMO	Low	Low	Effectiveness?	1
30 min watch before noise emission	Low	Low		1
Delay if marine mammals are sighted in the EZ	Low	Low		1
PAM	Low	Low		1
Reporting	Low	Low		1
Define an Exclusion Zone	Medium	Low	Why 500 meters (or 750 meters)?	2
Respect defined thresholds	High	Low	Deepen knowledge on acoustic ecology	3
Use of quieting technologies	High	High	Effectiveness?	4
Piling « procedures » (discrete pile driving; low power for longer time etc.)	Medium	High	can lead to ground modifications → unpredictable technical and economic consequences	6
Selection of low sensitivity periods	High	High	Best period for works overlap sensitive periods of many species	9
Stop noise in case of sightings of cetaceans	High	High		9
Exclusion of protected areas (MPAs, NATURA 2000 sites etc.	High	High	It is the responsibility of the state to decide on the relevance of building in protected areas	9

WORK ACHEIVED BY JN WG in 2013

Methodological guide : Guidance on Underwater Noise Mitigation



Noise mitigation screen for pile driving

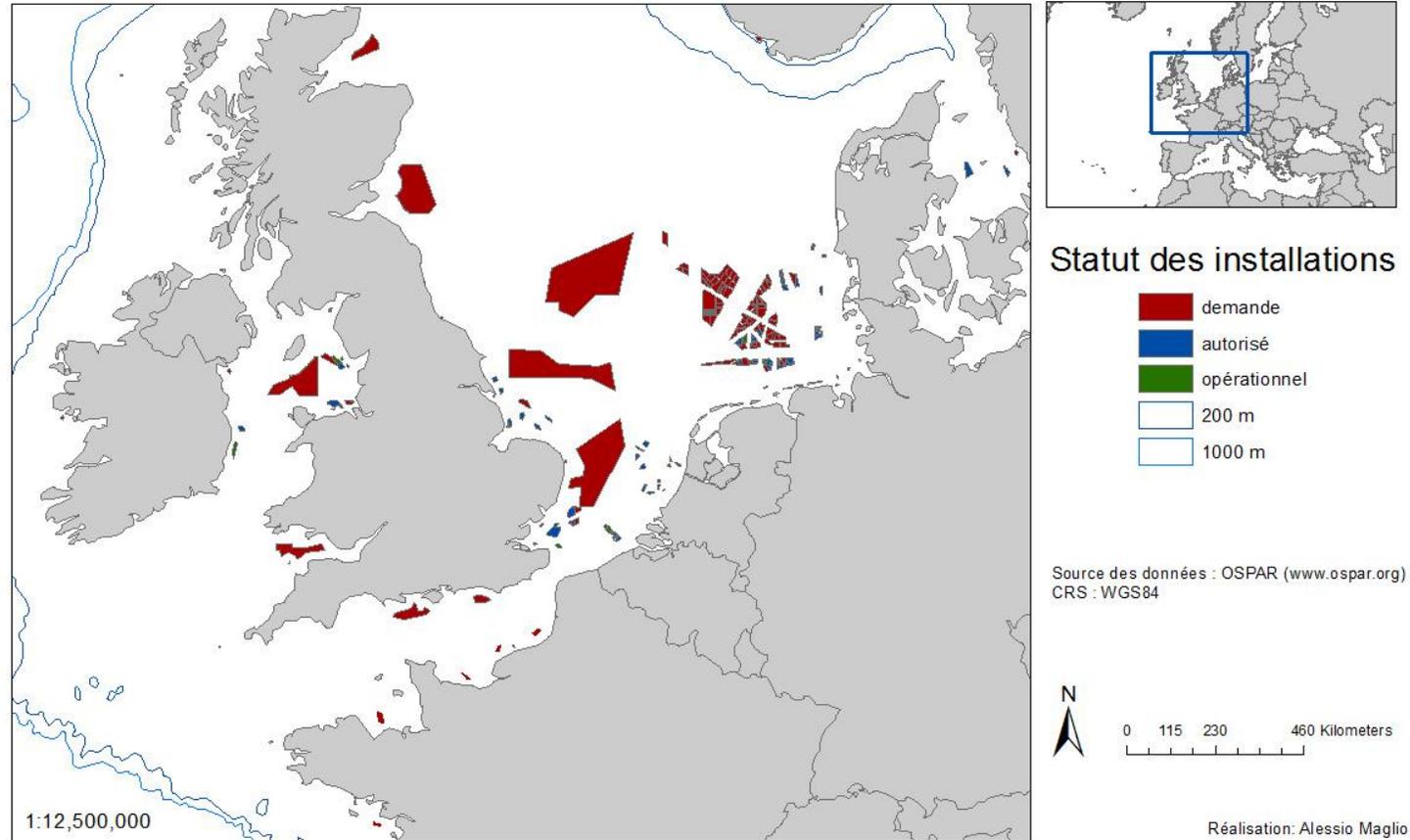


Hydrosound Dumper for pile driving



Buble curtain for pile driving

REVIEW OF WINDFARM PROJECTS BY JN WG IN 2013



WHAT HAPPENED SINCE THEN ?

- Was the information produced by JNWG used to preserve small cetacean during MRE project ?
- Have methodological guidance been spread to industries and national agencies ?
- Did the data collected have been up dated ?
- What about Oil&Gas ?

SUGGESTIONS :

- large scale and cumulative assesment
- Pilot projects in specific areas
- Connection with other fora (Ospar, ICES...) to collect raw data.

