OCEAN ENERGY

Agenda Item - 5.1.2. 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 this goal?

• Q3 : What raw data we need? How to collect it? (National Reports?) and how to analyse it?
Agenda Item - 5.1.2. Ocean Energy

**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?
Agenda Item - 5.1.1. Ocean Energy

WORK ACHIEVED 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

![MREs chart](chart.png)

Sample: Belgium, Denmark, Germany, France, the Netherlands and the UK.

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23rd ASCOBANS Advisory Committee Meeting – Le Conquet, France. 5 – 7 September 2017
**WORK ACHIEVED BY JNWG in 2013**

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

<table>
<thead>
<tr>
<th>Measure</th>
<th>Economic</th>
<th>Technical</th>
<th>Questions</th>
<th>Constraint</th>
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<tbody>
<tr>
<td>Use of ADD</td>
<td>Low</td>
<td>Low</td>
<td>Effectiveness debated</td>
<td>1</td>
</tr>
<tr>
<td>Noise impact in EIE</td>
<td>Low</td>
<td>Low</td>
<td></td>
<td>1</td>
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<tr>
<td>Soft Start</td>
<td>Low</td>
<td>Low</td>
<td>Effectiveness?</td>
<td>1</td>
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<tr>
<td>MMO</td>
<td>Low</td>
<td>Low</td>
<td>Effectiveness?</td>
<td>1</td>
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<tr>
<td>30 min watch before noise emission</td>
<td>Low</td>
<td>Low</td>
<td></td>
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<tr>
<td>Delay if marine mammals are sighted in the EZ</td>
<td>Low</td>
<td>Low</td>
<td></td>
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<tr>
<td>PAM</td>
<td>Low</td>
<td>Low</td>
<td></td>
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<td>Reporting</td>
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<tr>
<td>Define an Exclusion Zone</td>
<td>Medium</td>
<td>Low</td>
<td>Why 500 meters (or 750 meters)?</td>
<td>2</td>
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<tr>
<td>Respect defined thresholds</td>
<td>High</td>
<td>Low</td>
<td>Deepen knowledge on acoustic ecology</td>
<td>3</td>
</tr>
<tr>
<td>Use of quieting technologies</td>
<td>High</td>
<td>High</td>
<td>Effectiveness?</td>
<td>4</td>
</tr>
</tbody>
</table>
| 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          |

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WORK ACHIEVED BY JNWG 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
Agenda Item - 5.1.2. Ocean Energy

REVIEW OF WINDFARM PROJECTS BY JNWG IN 2013
AGENDA ITEM - 5.1.2. Ocean Energy

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 assessment
• Pilot projects in specific areas
• Connection with other fora (Ospar, ICES...) to collect raw data.