

Examples to Accommodate Biodiversity in Nordic Offshore Wind Projects

Presentation of DNVs project proposal, Kick-off meeting with NER

Marte Rusten

03 June 2021

Understanding of the assignment

• To perform a comprehensive study to identify how Nordic offshore wind projects can avoid, mitigate or compensate for negative impacts on biodiversity and also how offshore wind projects can be beneficial for biodiversity.

Provide examples of good stakeholder engagement-processes.

The deliverables of the project will serve as key input to the September 2021 ministerial meeting and final report published



Specific objectives

- 1. Identify good examples of coexistence between offshore wind projects and biodiversity in the Nordic region and/or neighbour countries, such as Germany, the Netherlands, or the Baltics.
- 2. Assess the feasibility of specific mitigation measures in a wider Nordic context, in terms of practical, technical, economic, and ecological considerations.



Approach



Task II



Case studies

Documented by performing 5 case studies reflecting different project phases :

Site characterisation and design

Construction

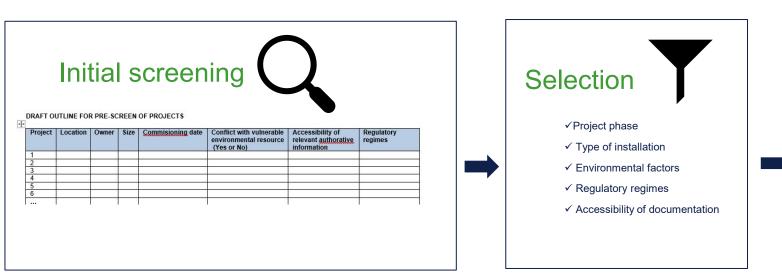
Operation

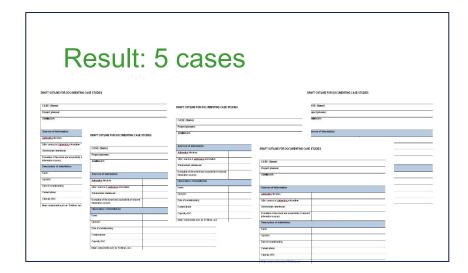
End of life

Both floating and fixed-foundation-turbine projects will be covered



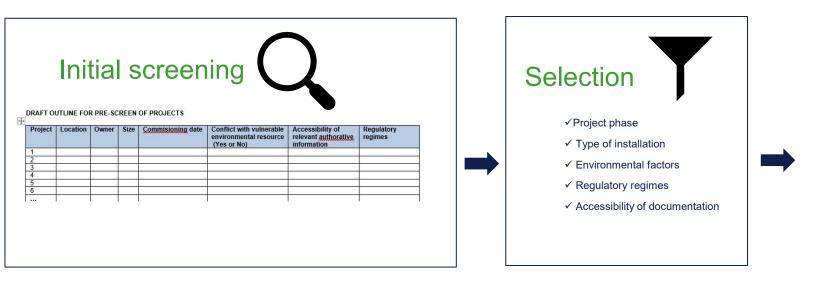
a) Identification of relevant projects

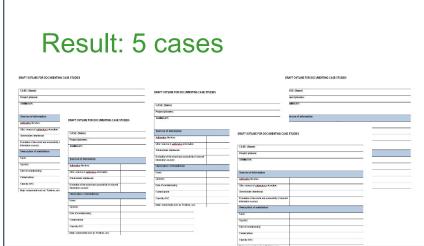






b) Identification of stakeholders







Stakeholders (case specific)

E.g:Site owners, operators, O&M contractors, regulators, scientific experts, related fisheries, nature conservation bodies



c) Documentation of cases

DRAFT OUTLINE FOR DOCUMENTING CASE STUDIES

000040000 U 0A	
CASE: (Name)	
Project phases:	
SUMMARY:	
Sources of information	
Authorative, literature:	Ť
Other sources of authorative information:	6
Stakeholders interviewed:	8
Evaluation of the extent and accessibility of relevant information sources:	
Description of installation	I s
Name:	
Operator:	
Date of commissioning:	
Current phase:	
Capacity (MV):	
Major components such as: Turbines, sub- structures, foundations, scour protections, (mooring lines and anchors for floating structures), offshore substations, inter-array cables and export cables	
Number and types of turbines:	
Governance	6
Relevant regulatory regimes:	
Physical and biological environment	<u>-</u>
Water depth:	
Hydrography:	(4)
Wave exposure:	
Distance from shore:	
Known occurrence of radiisted / Occur species:	
Spawning grounds for fish:	

modelio <u>se</u>		
Economic feasibility Measure 2:-		
Practical feasibility		
Biodiversity		
Measure 1:	Evaluation	
Evaluation of mitigation measures	<u>.</u>	
other		
species adaptation over time		
biodiversity in general		
introduction of species		
fish	1	
mammals		
birds	B	0
seabed habitats	(positive none, mild, severe)	
Anticipated Indirect Impacts on:	Degree	Adtigation measure
other		
species adaptation over time	V	
biodiversity in general		
introduction of species		
fish		
mammals		
birds	51 51 51	- 0
seabed habitats		
Anticipated direct impacts on:	Degree (positive, none, mild, severe)	Altigation measure
Biodiversity impacts		
seagrasses, marshes, oyster beds and wetlands:	3	
Offshore and coastal habitats, such as sandbanks,	D)	
Landbird or shorebirds migratory routes:		
Seabird populations, feeding areas:		

c) Documentation of cases: stakeholder interviews

	CASE: Date: Name of interviewer:							
	Biodiversity impacts				Engagement process			
Stakeholder name /affiliation	What are your main concerns regarding this project ?	What are the main benefits of the project?	How do you evaluate the effectiveness of implemented/planned mitigating measures?	What could be improved?	When in the project phases were you involved / and how?	How satisfied are you with the process?	What could be improved?	

Task II. Describe wider Nordic context

A high-level description of the main characteristics of the natural environment, economy, governance, practical / technical considerations relevant for the development of offshore wind projects (fixed and floating) in the Nordic areas (North Sea and Baltic) will be performed.

The focus will be on areas where an increased activity within offshore wind development is expected in the coming years.

To describe the natural environment we will be using visualizing maps and public domains such as Natura 2000, OSPAR-ODIMS, European Environment Information and Observation Network (Eionet), Barentswatch and more..











Task III. Assess feasibility in wider Nordic context

Task II Nordic context for offshore wind

Task III

Evaluation of measures in wider Nordic context:

Ecological implication
Practical feasibility
Economic feasibility

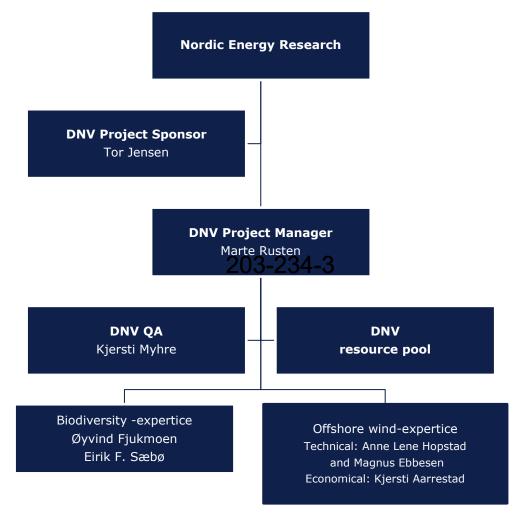


Timeline

	June	July	August	September	October	November	December	January
02.06 Contract signed								
03.06 Kick-off meeting								
Task I: Case studies								
24.06 Pre-draft sketch delivery	A .						Meeetings	
27.06 Pre-draft sketch presentation to steering group							Deliverable	25 🛕
Task II: Describe wider Nordic context								
Task III: Assess feasibility of measures in wider Nordic conte	rt	Î						
27.08 Draft report								
03.09 Draft report presentation to steering group								
17.09 Present preliminary findings to Nordic minister mee	eting							
04.10 Second draft report								
20.10 Final report								
04.11 Language check						A		
10.11 Layout customization								
Q4 Final report presentation								



Project team







WHEN TRUST MATTERS

Marte.Rusten@dnv.com +4799224198

www.dnv.com

