



Document title	Compilation of implemented measures regarding underwater noise in Germany
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Background

This document contains information on currently implemented measures regarding underwater noise and their corresponding legislative basis in Germany to be considered by the EN Noise network for the support of the HELCOM SOM analysis.

Action requested

The Meeting is invited to take note of the information and make use of it when considering SOM analysis for underwater noise.

Compilation of implemented measures regarding underwater noise in Germany

Impulsive noise

Activity	Legislative Basis	Administrative Basis	Negotiated agreements	Measures
Impact Pile driving	<ol style="list-style-type: none"> 1. Offshore Wind Energy Act (WindSeeG, 2017) and Offshore Installation Ordinance (SeeAnIV), 2. Ordinance on Maritime Spatial Planning (ROV, 2009), 3. Environmental Impact Assessment Act (UVPG, 2017) 4. Federal Nature Conservation Act (BNatSchG, 2010, 2019), 5. Nature conservation area ordinances (NatSchGVO, 2017) 			<ol style="list-style-type: none"> 1. Exclusion of wind farm construction in nature conservation areas, 2. Assessment of alternatives, 3. Strategic Environmental Assessment (SEA), 4. Environmental Impact Assessment (EIA)
		Assessment of Impacts of Offshore Wind Turbines on the marine Environment according to national Standard (BSH, STUK 2013)		Investigations on benthos, fish, seabirds, migrating birds, marine mammals.
		Licensing procedure (BSH)		<ol style="list-style-type: none"> 1. EIA, including the prediction of sound emission, 2. Assessment of abundance and distribution of marine mammals, 3. Assessment of possible environmental impacts, 4. Proposal for mitigation measures.

		Incidental clauses of licenses / Conditions for construction release		Pile construction release in tranches to ensure compliance with mitigation
		Incidental clauses of licenses		Binding threshold values for pile driving noise (since 2008)
				Restriction in pile driving duration
				Application of technical noise mitigation measures for threshold compliance
				Ramp up procedure
				Monitoring of acoustic emission and Harbour Porpoise echolocation
				Acoustic deterrence prior to pile driving start
				Comprehensive reporting to regulating agencies
			Concept for the protection of Harbor Porpoise (Federal Agency for Nature Conservation)	The Noise Mitigation Concept for the North Sea should be applied taking into account the specifics of the Baltic Sea and the status of regional Harbour Porpoise populations to avoid significant disturbance.
	Explosive sources (UXO)			Negotiated measures regarding detonations
Underwater detonation only for non-transportable UXO's				
Acoustic deterrence				

				Application of technical noise mitigation measure (Big Bubble Curtain)
Other sources			Time limited test phase	Notification requirements for selected hydro acoustic sources in nature conservation areas
Impulsive events according to TG Noise Guidance			Agreement on MSFD measures between state and federal states	Establishment and management of national registry for underwater noise

Continuous Noise

1. Research activities for developing and establishing ambient noise monitoring.
2. "Quiet" ship technology for research vessels.
3. Follow up measures on BIAS.