

The Motivation for the Project



The 11. Trilaterale Sylt Declaration (2010)

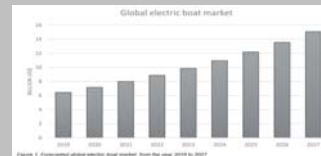
24. „Support the global and national efforts to mitigate causes of climate change at the regional level, by calling especially upon local and regional competent authorities and stakeholders, to work towards developing the Wadden Sea Region into a CO₂-neutral area by 2030 or before, putting the focus on the special threats for coastal zones by global warming and sea level rise“

Our projects to address this topic

- WATTfossilfrei (08-2021 - 05-2023)
- E-MobiSS (Start this summer (?))

The stock of Boats in Germany

- 2020: ca. 300T/ 200T motor-/ sailing-boats
- 2018: 73.000t CO₂-emissions
- = ca. 0,1%/ Traffic-emissions (UBA 2020)



Why should this topic be prioritised?

Legal Requirements as addressed above

High Risks for the UNESCO Wadden Sea Area

- Anticipated rise of the seawater level (0,6m resp. 1,2m until anno 2100)
- More extreme weather conditions (storm, tide, sediment-displacement)
- Change / reduction in characteristics of habitats, fauna and flora

EU CO₂ Target Setting for Boats < 24m in Length

- 2025: Quantify emissions and increase number of electric vessels
- 2035: Electric or fuel cell propulsion represent >25% of small boats
- 2050: Zero boats with diesel engines in EU-waters (ww >50%)

Milestone	2025	2035	2050
Small vessels	<p>Quantify the emission from small boats across the EU and globally.</p> <p>Prioritize action required for small boats to meet the emissions standard that are applicable to non-road mobile machinery.</p> <p>Increasing number of sold electrically propelled boats.</p>	<p>All the small boats within Europe meets the emission standard that are applicable to inland vessels within the non-road mobile machinery regulations.</p> <p>Boats with an electric or fuel cell propulsion system represent at least 25% of the small boat market in Europe.</p>	<p>There are no boats left that uses diesel engines.</p> <p>The European emissions standards for small boats are increasingly adopted globally, with more than 50% of all small boats worldwide meeting the European emission standards.</p>

Status Quo in fossil-free Propulsion Systems

Leisure and small service shipping

In **2019 France** require Marinas with more than 100 berths to allocate 1% thereof for boats with electric propulsion systems

Amsterdam 2019: All new permits for the commercial fleet are emission free by 2024, all boats have to be emission free by 2025. All boats of the recreational fleet in Amsterdam City Centre have to be emission free in 2025

Deutschland/ Bodensee 2021: The three neighboring countries co-operate to support fossil-free propulsion systems - providing incentives (privileged permission)

Germany/ Worldwide 2023: The „Blue Flag Label“ will incorporate requirements for fossil-free leisure shipping into their list of criteria

Sylt/ Leeuwarden (2010/18): Declaration to „mitigate causes of climate change ... and to develop the Wadden Sea Region into a CO2-neutral area by 2030 or before“



Dissemination and Workshops

- Address new boats and fossil-free techniques (!)
- Get in contact with the relevant associations, actors etc. along the coast of the Wadden Sea
- Compare and decide on technical and operational items, standards to be used etc.
- Identify the best strategic distribution of the charging stations along the Wadden Sea coast
- Develop a common time schedule for land- and sea-based actors to start and continue the process (“hen and egg dilemma”)
 - by using a Memorandum of Understanding (?)
- Involve more of the other marine World Heritage Sites
- ?



Which members of the WSF or actors are needed?

Development of Shore- and On Board Technology

- Industry, trade, energy, science (?)
- Boating associations (motor / sailing)
- Port- and marina-operation
- ?



Dissemination and Support of Implementation

- State, regional and local government authorities
- Tourism and recreation
- NGOs on nature and environment protection
- ?



(Most of which are already members of the WSF)

<https://www.waddensea-forum.org/en/wsf/forum/members>



**Thanks for
your attention**

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The Requirements of the WATTfossilfrei-MoU

Signees from the sector „Facility Provider“ (Marinas, craft harbours ...)

- From 2024** - Determine the amount of generated GHG-Emissions,
- Provide fossil-free electricity at the landing stage (until 2030) and
- Allocate a beneficial or free of costs berth for fossil-free driven boats (until 2030)
From 2026 - Provide an e-charging station/ wallbox with a performance of at least 22kW,
- Provide a charging station with a performance of at least 50kW
From 2030 Compensate the remaining GHG-Emissions in the purview („Sylt Declaration“!)

Signees from the sector „Facility User“ (Leisure boat society, service shipping, etc.)

- From 2024** - Disseminate information about fossil-free propulsion systems,
- Determine the amount of generated GHG-Emissions per year and
- Provide (financial?) incentives for the transformation to fossil-free propulsion systems
From 2026 - Stop the procurement of fossil-driven new boats
From 2030 - Compensate the remaining GHG-Emissions in the purview (“Sylt Declaration”!)

Signees from the sector „Supporter“ (Associations, Communities, Institutions ...) engage themselves in the sense of the project goals

The Memorandum of Understanding for the

Transformation of conventional to fossil-free Propulsion Systems (Leisure and Small Service Boats)

- **Important:** No Constraints or Prohibitions for Boats in Service!
- Focus is on E-Propulsion but other fossil-free alternatives may also be applied
- Requirements are „designed“ along Pending Legislation/ Cutting Edge Examples
- Requirements starting at Low-Thresholds (2024) with Incremental Steps (2030)
- Signatory Bodies may be „Facility Provider“, „Facility User“ and „Supporter“
- The Aim: Communicate (MoU), Co-operate (E-MobiSS), Stipulate (Incentives), Regulate (?)



Results of / and Outlook for WATTfossilfrei

- The WATTfossilfrei Memorandum of Understanding

- Impose no „constraints“ to boats in service - it addresses new boats
- The focus is on e-propulsion - other ff alternatives are also applicable



- Project E-MobiSS (Provision of E-Charging stations in Marinas)

- Strategic positioning of charging stations along the Waddensea
- Lay-out of charging stations according to specific circumstances
- Provision of accessibility also from the land-side (PKW etc.)
- Project start in 2023, Project duration 18 months



- Dissemination of the Project-Goals using the „Blue Flag“ label

- From autumn 2023 the criteria will include e-charger and e-boats



- Organisation of a Working Group at the Waddensea-Hub to uplift the project goals on to the trilateral level

- Promotion of the Project-Goals at the Conference of the 50 marine UNESCO World Heritages in Denmark/ Esbjerg in 09/2023

