



Discharge or recharge – ship-generated waste turned into energy

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BSAG is a non-profit foundation based in Espoo, Finland. We take effective actions to save the Baltic Sea. Our goal is to restore the good ecological balance of the Baltic Sea in changing climate conditions. We protect the Baltic Sea, prevent loss of biodiversity and curb climate change through broad-ranging cooperation with researchers, companies, decision-makers, authorities, and farmers. <u>www.bsag.fi</u>

BSAG Baltic Sea Action Group



Connection to the HELCOM Baltic Sea Action Plan (BSAP)

Segment: Sea-based activities

BSAP Actions



- S14 Carry out a study and impact assessment by 2025, assessing the possible ways for cargo ships to deliver sewage to port
 reception facilities (PRF) or take treatment measures, using onboard treatment plants, before discharging it into the sea. Based
 on the results, take relevant action in making a decision by 2027 on whether to widen the scope of the Baltic Sea Special Area
 regulations under the International Convention for the Prevention of Pollution from Ships (MARPOL) Annex IV to cover also
 sewage discharges from cargo ships.
- S15 Carry out a study and impact assessment by 2027, assessing the volume and potential harmful effects of grey water and the
 possibilities for ships to deliver it to port reception facilities or take treatment measures using onboard treatment plants, before
 discharging it into the sea. Based on the results, take relevant action in making a decision by 2029 on whether and how to
 manage grey water discharges from ships.
- S17 Study the adequacy and use of port reception facilities (PRF) for the International Convention for the Prevention of Pollution from Ships (MARPOL) Convention Annex V cargo residues by 2024 and, based on this information, ensure adequate PRFs in Baltic Sea ports for cargo residues classified as non-HME substances under MARPOL Annex V and further ensure incentives for ships to use them by 2027.
- S18 Develop a Roadmap to minimize the discharges of food waste into the Baltic Sea and subsequently develop by 2025 a
 HELCOM Recommendation to encourage voluntary agreements on delivering all food waste from ships to port reception
 facilities.
- S19 Enforce the requirements of the Baltic Sea Special Area under the International Convention for the Prevention of Pollution from Ships (MARPOL) Convention Annex IV and continuously ensure the availability of adequate port reception facilities in passenger ports in the Baltic Sea Area taking into account the "Technical Guidance for the handling of wastewater in Ports of the Baltic Sea Special Area under MARPOL Annex IV".



BSAG contribution to BSAP Sea-based actions

Reducing discharges of sewage, grey water and food waste into the Baltic Sea through voluntary action HOW? By increasing cooperation between all operators in the value chain

Raising awareness of responsible waste management onboard and ashore

HOW? By delivering information on No Special Fee among ships' crews, shipping companies and ports HOW? By spreading information on special features of the Baltic Sea

Enhancing the use of sewage, grey water and food waste as feedstock for biogas, soil amendments and district heating HOW? By launching Ship Waste Action converting wastewaters into energy HOW? By building value chains from ships to ports and further to waste management and energy companies

Collecting data on ships, sewage treatment plants, and contents of sewage and grey water HOW? By collecting and analysing samples of sewage and grey water HOW? By conducting surveys on cargo ships calling at Finnish ports HOW? By compiling statistics on port tariffs and waste management procedures in Baltic Sea ports



BSAG approach

Aim at concrete actions

Recognize parties which are needed to make the change

Focus on the whole value chain

Get relevant parties to committing to the change

Arrange financing for projects

Ensure the work continues after project funding ends

Communicate internally and externally!







INSPIRING OTHERS

No-one alone is responsible for the poor state of the Baltic Sea, and therefore, no-one alone can fix the problems of the Baltic Sea!

Key words for the efficient implementation of the BSAP:

Cooperation

Communication

Awareness

Joint actions

Information sharing

Continuity





CHALLENGES TO OVERCOME

Awareness

Public sector and authorities are not aware of challenges and possibilities in the private sector

Private sector is not aware of regulations, or possibilities to act beyond regulations

Private sector is not aware of the roles of various authorities

Cooperation

Stakeholders vs value chains

Competing vs cooperating

Neutrality

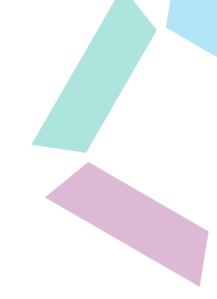
Responsible actions

Defining responsible actions

Setting, following and reporting ESG targets

Recognizing the need for change







ALWAYS ROOM FOR IMPROVEMENT

Change the things which you can!

Set ambitious goals!

Think outside your own box: who are the parties you need to get involved?

Try to reach the whole value chain!

Involve your counterparts in the public/private sphere!

Focus on improvement and positive steps, and raise good examples instead of bad ones!

Avoid making assumptions – communicate!

