





Partnership of project platforms Clean Shipping Project Platform

In partnership with International Consortium
"Saint-Petersburg Cleantech Cluster for Urban Environment", Russia







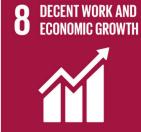




































PARTNERSHIPS FOR THE GOALS

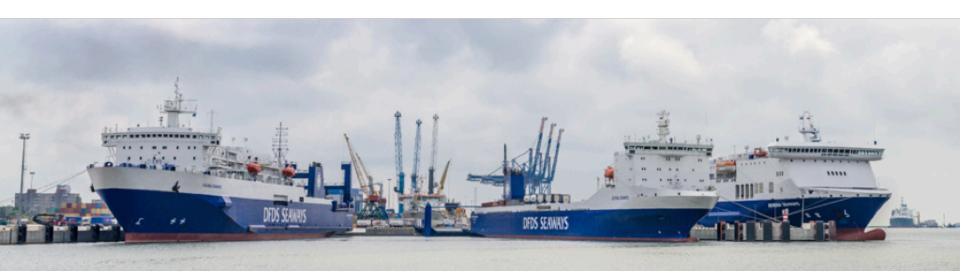


CLEAN SHIPPING PROJECT PLATFORM

CSHIPP brings together transnational projects and their key actors in order to ensure effective use, better durability and transferability of the projects' results. The consortium represents seven projects in total: EnviSuM, BONUS SHEBA, BalticLINes, GoLNG, ECOPRODIGI, COMPLETE & BSR ELECTRIC

CSHIPP Objectives

- Synthesising clean shipping projects' results to enable easier capitalisation
- Increasing the uptake of scientific information into policymaking
- Enhancing cooperation of businesses and the maritime industry with research and academia



ENVISUM

Environmental Impact of Low Emission Shipping: Measurements and Modelling Strategies.

The project addresses measurement and modelling strategies to assess present and future compliance costs, health effects, and environmental effects of ship emissions.

Shipping regulations and environmental investments have been discussed widely in the media and by politicians and lobby organisations, but only limited information is available on the technical efficiency and socioeconomic impacts of the different clean shipping solutions and of their capacity for complying with the regulations. The tools and recommendations will be discussed widely within the project workshops, in social media, in the media, conferences, and targeted discussions. These dissemination activities will enhance capacity building of stakeholder organizations also outside the project consortium.



Project budget EUR 3.22 million

Lead partner University of Turku (Finland)



Baltic LINes

Coherent Linear Infrastructures in Baltic Maritime Spatial Plans

The overall objective of the Project: to increase transnational coherence of shipping routes and energy corridors in Maritime Spatial Plans (MSP) in the Baltic Sea Region (BSR). This prevents cross-border mismatches and secures transnational connectivity as well as efficient use of Baltic Sea space.

Thereby Baltic LINes helps to develop the most appropriate framework conditions for Blue Growth activities (e.g. maritime transportation, offshore energy exploitation, coastal tourism etc.) for the coming 10-15 years increasing investors' security.



Project budget EUR 3.38 million

Lead partner Federal Maritime and Hydrographic Agency (DE)



GO LNG

LNG Value Chain for Clean Shipping, Green Ports and Blue Growth in Baltic Sea Region

The project will focus on developing the demand and accessibility of Liquefied Natural Gas (LNG) in the Baltic Sea Region. It will create a strategic approach to LNG development and a technology approach for consolidating the LNG value chain and it will provide skills and business partnerships for infrastructure development.

The project will focus on developing the demand and accessibility of LNG (Liquefied Natural Gas) in the Baltic Sea Region (BSR). When the value chain and the case studies for LNG are in place, the accessibility and price of LNG as marine fuel is still a very valid bottleneck for further development.

To apply LNG infrastructure as the growth and sustainability factor for the BSR there will be LBG production and distribution content provided. The project will aim at establishing value chain, technological concepts and business models for LBG. This will ensure sustainability of the LNG infrastructure and economic grow in the coastal communities.



Project budget EUR 3.05 million

Lead partner Klaipeda Science and Technology Park LT



ECOPRODIGI

Eco-efficiency to maritime industry processes in the Baltic Sea Region through digitalisation

ECOPRODIGI kick starts international collaboration between industry and academia to reduce the ecological footprint of transport vessels during their lifecycles through digitalisation. Research organisations mediate between technology developers and shipping companies, shipyards, suppliers and ports. Focusing on ferry and roll-on/roll-off shipping (i.e. wheeled cargo such as trucks and railroad cars), the partners analyse environmental inefficiencies, digitally simulate performance, and design business models for digital solutions.

The ECOPRODIGI project increases eco-efficiency in the Baltic Sea region maritime sector by creating and piloting digital solutions in close cooperation between industry end-users and research organisations. Ultimately, ECOPRODIGI supports the Baltic Sea region in becoming a front-runner in maritime industry digitalisation and clean shipping.



Project budget EUR 4.24 million

Lead partner University of Turku (Finland)



COMPLETE

Baltic Sea Region

Completing management options in the Baltic Sea Region to reduce risk of invasive species introduction by shipping

Shipping contributes to the uncontrolled introduction of invasive species to the Baltic Sea, which has severe environmental and economic consequences. COMPLETE supports the implementation of the new International Maritime Organization's convention on ballast water management by triggering regional cooperation, developing risk assessment procedures for ballast water management exemptions and setting a monitoring system of non-indigenous species in the Baltic Sea.

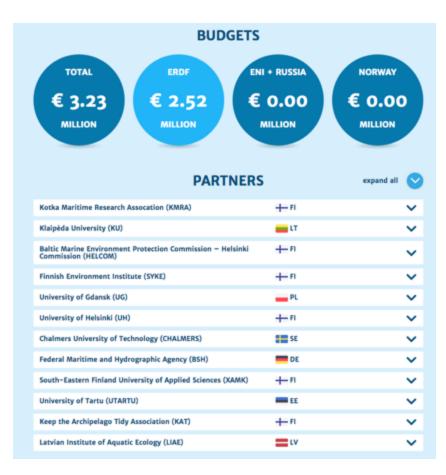
Shipping as the source of invasive aquatic organisms Shipping is the most important vector of introduction of harmful aquatic organisms and pathogens in marine environment worldwide. Such organisms can have significant socioeconomic and ecological impacts when they spread to new sea areas, as they can affect human health, livelihoods like aquaculture and fisheries or alter the structure of marine food webs. The project COMPLETE works towards minimising the introduction of harmful aquatic organisms and pathogens by developing a consistent and adaptive management system for the Baltic Sea region.

EUROPEAN UNION

DEVELOPMENT

Project budget EUR 3.23 million

Lead partner Kotka Maritime Research Assocation (KMRA) FI



BSR ELECTRIC

BSR electric - Fostering e-mobility solutions in urban areas in the Baltic Sea Region

The project aims to enhance the use of electric vehicles in city transport systems such as public sector fleets, public transport and bike sharing in order to reduce CO2 emissions and pollution. The partnership of public authorities, business, academia and NGOs explores the potential of e-bikes, e-buses, e-ferries and other e-vehicles. The project guides municipalities and transport planners and operators as well as public and private fleet managers in integrating e-mobility into urban transport strategies.

BSR-electric aims to enhance the utilization of e-mobility for urban transport systems across the Baltic Sea region. It demonstrates potential applications of various types of urban e-mobility solutions. Transnational pilot actions outline how different e-mobility applications can be implemented in practice and guide municipalities, public authorities, planners and transport providers in the process of integrating new solutions into urban transport. Various theme-specific capacity building actions improve knowledge whereas facilitated exchanges enhance the target's group capacity for informed decision-making.



Project budget EUR 3.83 million

Lead partner Hamburg University of Applied Sciences, Germany



CSHIPP PARTNERS

Role	Organisation (English)	Organisation (Original)	Country
PP1	University of Turku	Turun yliopisto	₩B
PP2	Centrum Balticum Foundation	Centrum Balticum -säätiö	10 8
PP3	Finnish Meteorological Institute	Ilmatieteen laitos	10 8
PP4	I/L, Swedish Environmental research Institute	IVL Svenska Mijöinstitutet	≣ SE
PP5	Baltic Marine Environment Protection Commission - Helsinki Commission (HELCOM)	Baltic Marine Environment Protection Commission - Helsinki Commission (HELCOM)	##B
PP6	Norwegian Meteorological Institute	Meteorologisk Institutt	₽ NO
PP7	Chalmers University of Technology	Chalmers Tekniska Högskola	SE SE
PP8	Tallinn University of Technology	TALLINNA TEHNIKAÜLIKOOL	== EE
PP9	Helmholtz-Zentrum Geesthacht Centre for Materials and Coastal Reseach	Helmholz-Zentrum Geesthacht Zentrum für Material- und Küstenforschung GmbH	■ DE
PP 10	ATI Küste GmbH - Association for Technology und Innovation	ATI Küste GmbH - Gesellschaft für Technologie und Innovation	■ DE
PP 11	Maritime University of Szczecin	Akademia Morska w Szczecinie	■ PL
PP 12	MDC (Maritime Development Center)	MDC (Maritime Development Center)	= DK
PP 13	Aalborg University	Aalborg Universitet	≣ DK

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WP 1: admin & comms WP 2 WP 3 WP 4

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WP2: Research-to-Policy Clean Shipping Activities

(<u>IVL</u>, FMI, HZG, MetNorway, Chalmers, UTU, HELCOM, assoc. SE-EPA, DK-EPA, SWAM, TRAFI, BSH)

WP3: Online Dissemination of the Clean Shipping Data (UTU & all)

WP4: Business Potential in New Clean Shipping Technology (<u>UTU</u>, TTU, ATI Küste GmbH, Sczeczyn, MDC, Aalborg, assoc TRAFI, Short Sea Promotion Cerntre, Se-EPA, EUSBSR PA Ship, Dk-EPA, DFDS, J.Lauritzen)

WP5: Platform Influence (Centrum Balticum)

WP2: Research-to-Policy Clean Shipping Activities

- Partners: IVL, FMI, HZG, MetNorway, Chalmers, UTU, HELCOM, assoc. SE-EPA, DK-EPA, SWAM, TRAFI, BSH
- Aim: To establish a research-policy network for clean shipping oriented to regional, national and local authorities in the BSR

Tasks:

- Synthesis of state of the art knowledge on emissions from shipping to air, to water column and of underwater noise incl. extended annual reporting to HELCOM (FMI)
- Synthesis of state of the art knowledge on compliance control and enforcement (Chalmers)
- Synthesis of state of the art knowledge on impacts from shipping on human health, marine and land ecosystems (MetNo)
- Knowledge gaps, stakeholder needs and funding possibilities (IVL)

WP3 Online Dissemination of the Clean Shipping Data

- A3.1: Online Dissemination and Educational Tool on Green Shipping in the Baltic Sea - Clean Shipping E-platform (story map) (<u>UTU</u>)
- A3.2: Website Demonstrating Effects of Shipping on Air and Water Quality (<u>HZG</u>)

WP4 Business Potential in New Clean Shipping Technology (<u>UTU</u>)

- A4.1: State of Play and Future Needs for New Clean Shipping Technology (<u>ATI Küste GmbH</u>)
- A4.2: Enhancing Business Potential by involving Business in EU-funded Projects (<u>UTU</u>)
- A4.3: Best Practices in Clean Shipping Financing for Private Companies

WP5: Platform Influence (Centr. Balt & all)

- 5.1 Bringing together clean shipping sectors and actors
 (<u>Centr.Balt.</u>) Platform events, workshops & meetings in the
 Platform (Shipping and Environment II conference)
- 5.2 Influencing policies and policy makers (<u>HELCOM</u>) Reccomendations to GREEN TEAM meeting 2019 and to HELCOM MARITIME
- 5.3 Influencing wider public opinion (<u>Centr.Balt.</u>) Outreach activities and material to wider public



XVII ОБЩЕРОССИЙСКИЙ ФОРУМ «СТРАТЕГИЧЕСКОЕ ПЛАНИРОВАНИЕ В РЕГИОНАХ И ГОРОДАХ РОССИИ»

СТЕЙКХОЛДЕРЫ БУДУЩЕГО

STAKEHOLDERS OF THE FUTURE

Как консолидировать стейкхолдеров, способных планировать и управлять будущим, обеспечивать устойчивое развитие, «превращая невозможное сегодня в возможное завтра» в целях удовлетворения потребностей ныне живущих и будущих поколений россиян?

Who are those actors who are interested in bringing the **future** closer today?

How to consolidate the stakeholders that can plan and manage the future, ensure **SUSTAINABLE** development, "making possible tomorrow what is impossible today" to meet the needs of present and future generations of people?

SAINT PETERSBURG

OCTOBER 22-23 **2018**

ПЯТЬ ТЕМАТИЧЕСКИХ ЛИНИЙ ФОРУМА

- 1. Планирование будущего и будущее планирования.
- 2. Человеческий капитал: стейкхолдеры перемен.
- 3. Лучшая практика стратегирования, новости технологии планирования.
- 4. Сотрудничество для регионального развития: международное, межрегиональное, межмуниципальное.



FORUM GREEN DAY

Balance towards humanism - a key to sustainable developement and innovation in Russia







THANK YOU!

Elena Belova

Secretary General ICSER Leontief Centre

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