A.P. Møller-Mærsk - Alfa Laval Aalborg - Hempel - MAN Diesel & Turbo - OSK-ShipTech - TORM -DBI - FORCE Technology - Teknologisk Institut - Aalborg Universitet - CBS - DTU - SDU - Propeller Control - Lyngsø Marine - Tetraplan - Transmar - Bureau Veritas - MacGregor - Claus Kruse -Vessel Performance Solutions

J. Lauritzen - Principia North - Automation Lab – SIMAC - Esvagt - A2SEA - Eltronic - LR Marine -Dansk Analyse - Lloyd's Register - Clean Combustion - Kosan Crisplant - Moving Energy - Haldor Topsøe - Danish Maritime - Controllable Pre-Swirl Fins - Dynamic propeller shaft speed control -Trailer Cat - Vessel Performance Decision Support - Monitoring & Performance - Gas Valve Train -

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Aethane - Shore based small scale LNG-LBG ons - Slow steaming antifouling paint - Selective Biocides - Servitization - A.P. Møller-Mærsk -OSK-ShipTech - TORM - DBI - FORCE et - CBS - DTU - SDU - Propeller Control tas – MacGregor - Claus Kruse - Vessel

Performance Solutions - J. Lauritzen - Principia North - Automation Lab - SIMAC - Esvagt - A2SEA - Eltronic - LR Marine - Dansk Analyse - Lloyd's Register - Clean Combustion - Kosan Crisplant -Moving Energy - Haldor Topsøe - Danish Maritime - Controllable Pre-Swirl Fins - Dynamic propeller **Project name:** Performance - Gas Valve Train - Multi fuel burner Shore based small scale LNG-LBG liquefaction ur **Encapsulated Biocides** steaming antifouling paint - Selective Catalytic Re Servitization - A.P. Møller-Mærsk - Alfa Laval Aa **Project participants:** ShipTech - TORM - DBI - FORCE Technology - Te DTU - SDU - Propeller Control - Lyngsø Marine -Teknologisk Institut MacGregor - Claus Kruse - Vessel Performance S Hempel Automation Lab - SIMAC - Esvagt - A2SEA - Eltro Register - Clean Combustion - Kosan Crisplant - Moving Energy - Haldor Topsøe - Danish Maritime

- Controllable Pre-Swirl Fins - Dynamic propeller shaft speed control - Trailer Cat - Vessel



Short project description

The project aims at controlling the leaching rate of biocides in hull coatings by encapsulation.



Current status



Technology Readiness Level								
1	2	3	4	5	6	7	8	9
		х						

Key findings

What key features or findings would you like to highlight from your project work until now?

- 1. Successful encapsulation of biocides.
- 2. Increased shell thickness of capsules is demonstrated.



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Project challenges and solutions

What challenges have the project team experienced and how has the team solved them?

- 1. The initial technology approach did not give the desired release. Stronger more dense "capsules" are the solution.
- 2. Frequent meetings and continues technical discussion have ensured that the focus was kept at the end-goal.



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Why should you buy our solution?

What makes your solution the preferable one compared to other available solutions?

Controlled release leads to a more effective use of biocides, thereby increasing the longevity of the coating and decreasing the environmental impact.