EcoShip60 NETWORK DESCRIPTION

AIM OF THE ECOSHIP60 NETWORK

The aim of the network partners is to develop environmentally friendly alternative propulsion and energy systems for small to medium-sized work and patrol boats that allow users to travel at low cost with high performance and a long range.

To this end, the small and medium-sized enterprises work together with research institutions to develop appropriate solutions. These are then applied for and implemented in the form of R&D projects for funding.

BENEFITS FOR THE COMPANIES

Competitiveness

With the individual developments of the R&D projects, the partners can establish themselves on the market for alternative engines. The SMEs expand their know-how and their range of services; they unlock new economic potential and increase their competitiveness.

Transfer of knowledge

The cooperation between companies and research institutions creates a unique exchange between practice and theory. Companies in particular benefit enormously from this knowledge transfer.

Future orientation

Membership in our network also makes it clear that the companies are making a significant contribution to climate protection. This shows that they work in a future-oriented way and strengthens a sustainable image. In view of the current shortage of skilled workers, this feature is particularly relevant to attract existing and new staff.

TECHNOLOGICAL FOCUS

In order to achieve a significant reduction in environmental pollution (CO2 and noise), integrated technical solutions are being developed at competitive prices.

The special feature of the network approach is the holistic consideration of all technological sub-areas and their interdependencies, e.g. the determination of the consequences of the choice of a propulsion system on the hull and space concept of a ship.

R&D PROJECTS

- Electromechanical pitch adjustment system
- Compact fuel cell technology for a parameter-limited boat
- Compact gene set with CO2-neutral fuel
- Load-bearing hull-deck connection for material combinations in boat construction
- Sensor-based readout system for detecting energy consumption
- Smart water jet manoeuvring system

The successful implementation of these projects has led to the award as a ZIM success example [only available in German]

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ACTIVITIES	▪ Development of R&D projects - to ensure further funding from the ZIM and other programmes ▪ Public relations work to present - the partners and their specific competences - the capacity for innovation ▪ Networking - transfer between science and industry - use of synergies
NETWORK STRUCTURE	The EcoShip60 network currently comprises 13 partners. There are 5 SMEs, 3 research institutions, 3 large companies; 1 cluster and 1 authority. The network is managed by the agency DSN Connecting Knowledge.
PARTNERS	1. ABEKING & RASMUSSEN Schiffs- und Yachtwerft SE 2. ARMATUREN-WOLFF Friedrich H. Wolff GmbH & Co. KG 3. Federal Waterways Engineering and Research Institute (Bundesanstalt für Wasserbau, BAW) 4. Danfoss Editron 5. Fraunhofer Institute for Manufacturing Technology and Advanced Materials IFAM 6. Friedrich Marx GmbH & Co. KG 7. ITK-Engineering GmbH 8. Kiel University 9. Lübeck Yacht Trave Schiff GmbH 10. Maritimes Cluster Norddeutschland e. V. 11. Maritimes Zentrum Hochschule Flensburg 12. Otto Piening GmbH 13. SDT - Schiffsdieseltechnik Kiel GmbH
FINANCING	Own funds of the network partners The network was funded from 2017 to 2021 by the "Central Innovation Programme for Small and Medium-Sized Enterprises – ZIM" of the Federal Ministry for Economic Affairs.
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ZIM Zentrales Innovationsprogramm Mittelstand

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