



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 SMES The network will contribute to the knowledge and innovative strength of the participating SMEs. SMEs can thus react more flexibly to customer requirements and thus increase the competitiveness of their companies.

With the help of the network and the R&D projects, the project partners will establish themselves in a market for alternative maritime propulsion systems in which only a few suitable products and solutions have been offered to date. In this way, SMEs expand their know-how and range of services and open up new economic potential.

TECHNOLOGICAL FOCUS Existing technical solutions will be transformed into new holistic solutions in order to optimise the overall ship system and achieve a significant reduction in environmental pollution (CO₂ and noise). Such holistic technical solutions at competitive prices still do not exist today.

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.

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- 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].

PROJECT SPECIFICATIONS	<ul style="list-style-type: none">▪ 8 m boat in the versions: leisure boat and work boat▪ 16 m boat in the versions: work boat and patrol boat▪ 26 m boat in the version: passenger ferry▪ 45 m boat in the version: patrol boat
ACTIVITIES	<ul style="list-style-type: none">▪ Development of R&D projects<ul style="list-style-type: none">- to ensure further funding from the ZIM and other programmes▪ Public relations work to present<ul style="list-style-type: none">- the partners and their specific competences- the capacity for innovation▪ Networking<ul style="list-style-type: none">- transfer between science and industry- use of synergies
NETWORK STRUCTURE	The EcoShip60 network currently comprises 11 partners. There are 5 SMEs, 1 research institution, 3 large companies and 2 associations and authorities. The network is managed by the management agency DSN Connecting Knowledge.
PARTNER	<ol style="list-style-type: none">1. ABEKING & RASMUSSEN Schiffs- und Yachtwerft SE2. ARMATUREN-WOLFF Friedrich H. Wolff GmbH & Co. KG3. Federal Waterways Engineering and Research Institute (Bundesanstalt für Wasserbau, BAW)4. Danfoss Editron5. Fraunhofer Institute for Manufacturing Technology and Advanced Materials IFAM6. Friedrich Marx GmbH & Co. KG7. ITK-Engineering GmbH8. Lübeck Yacht Trave Schiff GmbH9. Maritimes Cluster Norddeutschland e. V.10. Otto Piening GmbH11. SDT - Schiffsdieseltechnik Kiel GmbH
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