



Eco-design

The future of marine construction ?

French marine construction is a strategic sector which owes its success to the development of advanced technologies and its capacity for innovation. Today the environment is at the heart of concerns related to this industrial sector. In the Pays de la Loire Region, a specific programme has been developed by NEOPOLIA and a consortium of businesses within the domain of marine eco- design or 'sustainable' marine design. Its objective: to find global and optimal solutions for the protection of the environment.

Innovation at the service of the environment

A unique tooling christened Project SSD (*Sustainable Ship Design*) now enables a vessel's environmental profile to be determined. SSD evaluates its impact on the environment during its entire lifecycle, from the materials chosen for its construction and its assembly at the yard, to its use, its maintenance and its dismantling.

An assessment of the impact on the environment is carried out over the various stages of its life according to specific criteria: ecotoxicity of the environment, eutrophication (proliferation of algae and destruction of the flora and fauna), global warming, atmospheric acidification, destruction of the ozone layer, human toxicity, fine particle emissions, exhaustion of natural resources, flow indicators (water and energy consumption, waste production).

As such, the environmental profile of a military frigate, passenger ship, cargo vessel, yacht or cruiseliner can be analysed throughout their entire respective lifecycles.

SSD, a competitive edge for the French marine industry

A common platform has been put in place enabling all the protagonists involved in marine construction and repair to discover precisely what the impact of their production is on the environment and give them an undeniable competitive edge in the long term.

The SSD project has a strategic appeal as it enables the sharing of data between companies in the same industry. It comprises one of the first global approaches to evaluating and reducing the environmental impact of a vessel.

With a budget of 300,000 Euros, half of it is financed by the DRIRE (a French regional organisation concerned with industry, research and the environment), the Pays de la Loire Region and the ADEME (an environmental agency dealing with the control of energy output) and the other half is funded by businesses within the consortium (*STX France Cruise SA, STX France Solutions, Auxitec Ingenierie, Bureau Veritas, Chantiers Baudet, DCNS, MYG Decking, Protecflam, Saint-Nazaire Marine, Shipstudio, Soreel*).

NEOPOLIA, a network of 90 industrial businesses, is the project's founder. The scheme is piloted by the SDI firm (*Stirling Design International*) and the company *EVEA*, a specialist in the environmental assessment of eco-design approaches, ensuring the development of tooling.

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A CONSORTIUM OF PARTICIPATING BUSINESSES



STX France CRUISE SA. :
Civil marine design and construction

STX France SOLUTIONS :
Industrial research consultancy, branch of STX France Cruise SA



AUXITEC INGENIERIE :
Proximity engineering with industrial project management



BUREAU VERITAS :
Classification company



CHANTIERS BAUDET :
Design and fabrication of marine equipment



DCNS :
Naval military design and construction.



MYG DECKING :
Design and fabrication of deck coverings



PROTECFLAM :
Design and construction of fireproof materials



SAINT NAZAIRE MARINE :
Marine repair



SHIPSTUDIO :
Marine research consultancy



SOREEL :
Design and construction of marine instrument panels and generators
