



ADVANCED HULL COATINGS TO REDUCE SHIPPING FUEL CONSUMPTION

Driving sustainability in shipping
with cleaner technologies

This project reduces emissions by using improved hull coatings on ships. This advanced technology reduces hull friction and hydrodynamic drag, reducing fuel consumption.



Advanced coating technologies are used to reduce emissions from maritime transport.



17,000

GHG emissions mitigated per year (tCO₂e)



59,360

kg of biocides prevented from being released into the marine environment

PROJECT HIGHLIGHTS

For more information on the UN Sustainable Development Goals please visit: <http://www.un.org/sustainabledevelopment/sustainable-development-goals/>

While international shipping is one of the most fuel-efficient modes of transport, it is responsible for transporting 90% of the world's goods. As a result, total emissions from maritime transport account for 2.5% of global greenhouse gas emissions, equivalent to around 1 billion TCO₂e emitted every year.

The project reduces shipping emissions by using an advanced hull coating technology that reduces hydrodynamic resistance thus reducing fuel consumption for ship propulsion. At the same time, the quantity of paint is reduced significantly over the normal lifetime of a vessel, generating 83% less paint volume and 74% less waste tins.

Besides significant fuel savings and emissions reduction, the coating avoids the contamination of seawater by eliminating the release of 59,360 kg of biocides into the marine environment and by reducing the release of paint. In addition, the product is less toxic to humans, as it contains less volatile organic compounds (VOC), which can cause eye and respiratory irritations. Reduced fuel consumption also results in a reduction of sulphur oxides (SOx) and nitrogen oxides (NOx), toxic gas compounds from the combustion process.

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