

Consiglio Nazionale delle Ricerche

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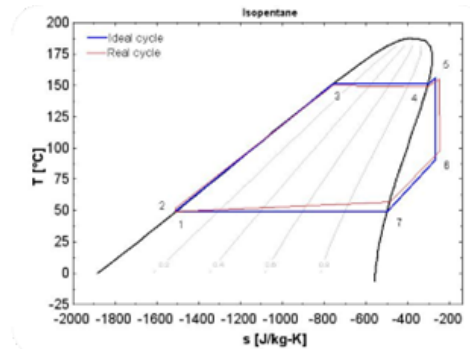
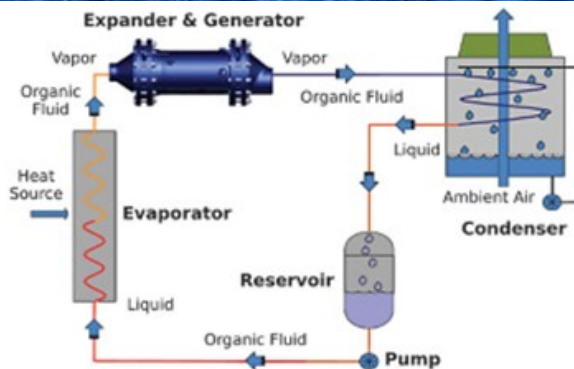
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“Life+ EfficientShip - The first ORC heat recovery system onboard a fishing vessel”

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ABSTRACT

Energy efficiency is a major parameter in a modern fishing industry, being a basic factor of competitiveness, sustainability and for protection of the environment. Fuel inefficiency affects the environment, causing pollution due to GHG emissions directly related to the amount of fuel used. Commercial fishing in Europe is currently facing economic, social and environmental challenges, which are forcing the fishing sector to evolve towards an energy efficient, low emission and sustainable activity.

EfficientShip (“*Demonstration of an innovative ORC module to improve the efficiency of European fishing vessels*”) is a European project, funded through LIFE+ Environment Policy and Governance funding program (LIFE13 ENV/FR/000851). The aim of the project is to demonstrate the suitability of the ORC technology for reducing fuel consumption and greenhouse gases emissions of marine diesel engines, contributing therefore to the reduction of carbon footprint of human activities while offering a solution for sustaining an endangered economic European activity. The technical specifications of the systems, together with benefit and constraints of such a green technology will be discussed, together with a preliminary analysis of data collected during fishing activity.

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