



Contribution ID: 119

Type: **Paper**

The Green Fleet Project – Energy Saving Measures

Friday, 22 June 2018 11:15 (15 minutes)

The Italian Navy has always had, among its mission, the safeguard of the marine environment, and it is strongly oriented in giving its contribution to the targets fixed from the European Parliament with the “2020 Climate and Energy package”.

In 2012 ITN has launched the “Flotta Verde” initiative, with the purposes of reducing gas emissions and improving the national energy security. To achieve these goals, ITN follows three main strategies : adoption of a renewable synthetic fuel; innovative eco-design technologies (LED lighting, SCR, silicone paints); energy saving operating procedures. The paper presents an overview about the Flotta Verde initiative and a case study aimed to optimize the power consumption of Engine-room ventilation Plant for ITN ships. In particular, the study analyzes the energy needed to ensure the proper air flow in the engine-room as a function of the ship operating conditions.

Aboard a navy ship, the aim of an engine room ventilation plant is to provide comfortable working conditions, and to ensure the necessary air flow to prevent heat-sensitive apparatus from overheating. The case study compares traditional solutions with new technologies in the field of energy saving and calculates the time for ROI (Return of investment).

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Session Classification: Navy and Cyber Security

Track Classification: Naval ships design & technology