

PROJECT

GreenDrive

A molecular fuel modifier for ships able to reduce the costs related to fuel and maintenance for fleet operators

Funding: European (Horizon 2020)

Duration: Aug 2016 - Nov 2016

Status: Complete

Total project cost: €71,429

EU contribution: €50,000



Call for proposal: H2020-SMEINST-1-2016-2017

[CORDIS RCN : 205033](#)

Objectives:

Commercial ship owners are currently facing two significant problems that in future will increase in their magnitude: the high price of fuel being the most significant cost on a ship profit & loss statement (up to 70%); and imposed regulations and restrictions to lower the emissions produced by commercial ships.

Ecomfm's GreenDrive technology is a unique patent pending molecular fuel modifier device that, through its "cleaning process" via applying electric fields to the fuel, reduces liquid hydrocarbon fuel (diesel, fuel, oil) consumption in ships combustion engines by up to 10%. Moreover, GreenDrive is able to reduce emissions produced by 30% while at the same time reduce running costs related to maintenance of the ship's engines and parts by 20%. The device can be easily and quickly installed onto both new engines and as a retrofit on to already in service ship's engines. Thanks to both cost savings made in reduced fuel consumption and maintenance, GreenDrive has a payback period of less than one year.

GreenDrive technology has been developed and demonstrated on various transport-related applications (automotive, trucks, auxiliary diesel generators, railway heating stations and boilers), achieving a TRL 7; however the SME inventor Ecomfm now seeks funding to perform a full feasibility study on: undertaking further demonstration through a large scale pilot on ships; necessary steps needed to gain EU certification; a strategy for fully commercialising the product.

Parent Programmes:

[H2020-EU.3.4. - Horizon 2020: Smart, Green and Integrated Transport](#)

Institute type: Public institution

Institute name: European Commission

Funding type: Public (EU)

Lead Organisation:

Ecomfm Limited

Address:

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United Kingdom

EU Contribution: €50,000

Partner Organisations:

Equimer Sarl**Address:**

21 AV EDOUARD BELIN
92566 RUEIL MALMAISON
France

EU Contribution: €0

Italtek Srl**Address:**

VIA LIMA SCALA C INT 2 35
00153 ROMA
Italy

EU Contribution: €0

Technologies:

Energy efficiency
Fuel modifiers

Development phase: Demonstration/prototyping/Pilot Production

STRIA Roadmaps: Low-emission alternative energy for transport
Water transport (sea &

Transport mode: inland)

Transport sectors: Passenger transport, Freight transport
Societal/Economic issues, Environmental/Emissions

Transport policies: aspects

Geo-spatial type: Other