The first sustainable alternative to glass-fiber reinforced plastic



nlcomp

Plan Blue event

7 June 2022





innovative startup

Monfalcone, Italy



fiberglass end-of-life the problem

At present, disused vessels are delivered to landfills as complex waste with high economical and environmental costs.

Recycling of fiberglass wastes **is not advantageous**



fiberglass end-of-life the problem

+ 75,000 fiberglass vessels were no longer in circulation in the World

+ 54% of these were abandoned, with a presence of about 53,460 tons of waste fiberglass









What is our uniqueness?

Engineering DNA sustainable material expertise

Andrea Paduano R&D Manager

Alessandro Pera Structural Engineer

Roberto Baraccani Composite Engineer



ARKEMAA INNOVATIVE CHEMISTRY

What is our uniqueness?

Worldwide Renowned Collaborations

Breton Spa additive manufacturing

Arkema chemisty

NMG Europe recycled core producer



rComposite[™]

recyclable technology

protective wrapping film

deck / flax fibers - rCore

structural frame / flax fibers - rCore

hull / flax fibers - rCore

rComposite our solution

thermoplastic matrix is the only option to switch to **sustainability** in boating industry

rComposite is patent pending





Recyclability

Thermoplastic recyclable technology

nlcomp guarantees recycling at the end of its life thanks to the use of a thermoplastic matrix and the use of natural fibers.



Atlas rCore

ecoMaterials

flax fibers rCarbon fibers Atlas Core

Picture of ecoracer deck layout







ecoMaterials

CO2 impact





Boatbuilding Process

Vacuum Infusion Process

Picture of ecoracer hull



Building panels Tubes Wind Blades Pools **Structures** Automotive

Applications

The rComposite technology can be applied in markets that currently use traditional fiberglass molding technologies.



Greenboats

Competitors

nlcomp is at the cutting edge of the sustainability technology in marine industry.

Competitors are far from a recyclable composite and the technology gap is really huge.

NEW CIRCULAR YACHT ECONOMY

Q

SNICTINE

RECYCLE

Northern Light Composites, innovation and sustainability for the marine industry.

nlcomp represents the first sustainable alternative to fiberglass reinforced plastic





ecoprimus first recyclable dinghy

100% natural fibers# recycled core# thermoplastic resin

World Sailing Agenda plan to switch to recyclable technology within 2030 for Olympic Class boats

unit price around 4.500 eur





ecoOptimist first recyclable dinghy

natural fibers
recycled core
thermoplastic resin

World Sailing Agenda plan to switch to recyclable technology within 2030 for Olympic Class boats

unit price around 3.900 eur



ecoracer first recyclable sportboat

natural fibers
recycled core
thermoplastic resin

7,69 meters

designed by award winner naval engineer

unit price around 80000 eur





ecoracer first recyclable sportboat

JEC Paris 2022

Innovation Planet





ecoracer first recyclable sportboat

Winners Italian Championship

May 2022



ecofoiler first foiling dinghy

natural fibers
recycled core
thermoplastic resin

designed by award winner naval engineer and america's cup engineers

unit price around 10000 eur



rComposite™: recyclable composite technology

řComposite[™]

ecofoiler first foiling dinghy

Fully Circular Boatbuilding Process

4T Forte by Onesails: recyclable sail technology





ecofoiler first foiling dinghy

Additive Manufacturing technology



ecofoiler first foiling dinghy

Recyclable sails Technology

4T Forte by Onesails



udcht recoveru project



Yacht rEcovery Project

Mapping Abandoned Boats





Yacht rEcovery Project

After the first phase of mapping the boats will be analyzed to assess whether there are any possibilities for reuse and re-placing on the market or if they will be destined for disposal.

cecooptimist for sailing schools

Clean

nl

Sailors

Join us for the sustainable sailing revolution



a project to educate the new generation of sailors and teach why it is necessary to start using new materials and how to do it

parthernship with the no-profit Clean Sailors

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