

RACE FOR WATER

A FOUNDATION TO PRESERVE WATER



Innovative solutions to
fight against plastic pollution
in our oceans



THE RACE FOR WATER FOUNDATION

Created in 2010 by Marco Simeoni, a Swiss entrepreneur passionate about the sea, the Race for Water Foundation is an organisation dedicated to the preservation of water and in particular our oceans. Through its expeditions, it studies and denounces the extent of the disaster of plastic pollution on ecosystems, while providing pragmatic and relevant solutions to prevent plastic waste from reaching waterways.

In 2015, Race for Water launched its first Odyssey to make a global assessment of marine plastic pollution. The findings were clear: "plastic islands" do not exist. Only 1-3% of plastics remain on the surface. We are facing a veritable soup of toxic microplastics with catastrophic effects on the marine fauna and the entire food chain.

Heading out to collect plastic waste at sea has proven to be just a pipe-dream. We must act on land!

Race for Water Odyssey 2017-2021

With a second around the world 5-year expedition currently underway, including some 35 stopovers, the Race for Water Odyssey's mission is to raise awareness, identify, promote and deploy local solutions for transforming plastic waste into energy.



Taking action for our ocean at each stopover!

PLASTIC, THE 21ST CENTURY CATASTROPHE

50% of humanity is nourished by the oceans

50% of our oxygen is produced by the oceans

If we do nothing, there will be more plastics than fish in the oceans

by **2050**

80% of marine waste comprises plastics

+50kg of plastic waste is generated per person per year, 5-10% of which ends up in the oceans

1.5 million animals die each year caused by plastic waste in the ocean

Urgent action is needed to stop the flow of plastic waste reaching our oceans

SUN, WIND AND WATER

SOLE SOURCES OF ENERGY FOR THE RACE FOR WATER VESSEL

The Race for Water ambassador vessel is also a showcase for energy transition thanks to its combined solar-hydrogen-kite propulsion system.

0 CO₂ emissions

3 sources of energy: the sun, the wind and water

LEARN, SHARE, ACT

A 3 PROGRAMME ODYSSEY



Contribute to the **advancement of scientific knowledge** on plastic pollution in water



Alert decision-makers, **raise awareness** among the general public and **educate** the younger generations



Promote and implement **solutions with a sustainable economic, environmental and social impact**

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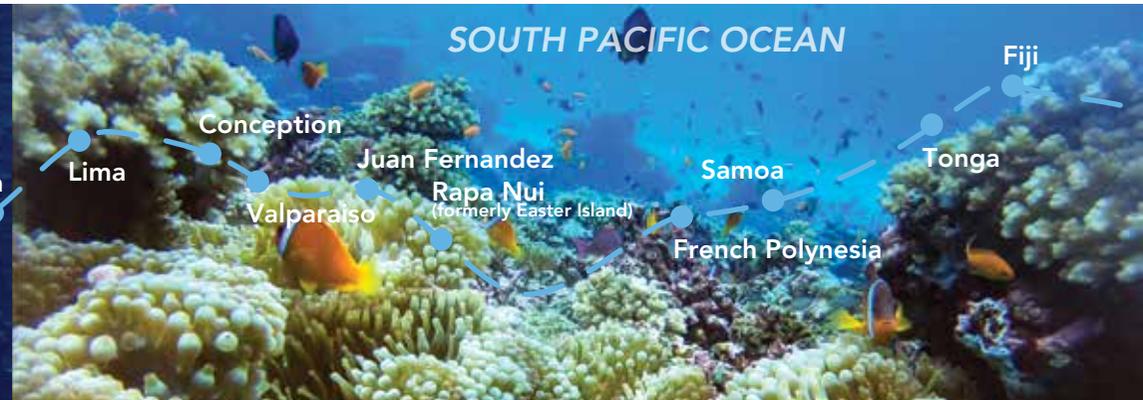
Scientific missions programmed with universities and international institutions

50,000

Children, decision-makers, industry manufacturers, media and government authorities expected aboard *Race for Water* during stopovers

1

Field survey carried out at each stopover in order to deploy our solutions



1 512 m² of solar panels and storage in the 7.5 tons of Lithium-ion batteries

Energy autonomy of 36 hours of navigation

2 40 m² self-piloted Kite wing deployed at 150 m altitude

4 to 8 knots speed without the use of electric motor power

3 7.5 m³ of hydrogen at 350 bars stored in 25 bottles

2 fuel cells deliver more than 2,600 kWh of electricity (gain of autonomy: up to 6 days at 4 knots)



5 CREW



110 TONS



4 KNOTS AVERAGE SPEED



AMiCi Mission conducted in New Caledonia in February 2019 to ascertain the impact of microplastics on corals.



Aware that the changes will be brought about by the younger generations, the Foundation has already welcomed several thousand children on board to discover a unique vessel and discuss ocean pollution.

EVERY DROP COUNTS

THE BEST WASTE IS THE ONE THAT IS NOT PRODUCED!

We promote the review of current methods in place for plastic production and urge everyone to reduce their plastic consumption and recycle their plastic waste.



REFUSE



REDUCE



REUSE



REPAIR



RECYCLE

The fragility of the current recycling model hinders its development. Only 15 to 20% of plastic waste is currently collected for recycling. More than half of these collected materials cannot be recycled for health, safety, quality and contamination reasons. In addition, the prohibitive cost of recycling favours the use of virgin plastic.

THE BIOGREEN®

A LOCAL SOLUTION TO A GLOBAL PROBLEM

In anticipation of a circular plastic economy that is sustainable and environmentally friendly, Race for Water presents a realistic solution that, deployed on a large scale, can put an end to most of the contamination of the oceans from plastic waste. We offer high temperature pyrolysis technology developed to transform all plastic waste into electricity. These units installed in containers can be installed close to inhabited areas and allow isolated communities, such as islands, to manage their waste management and their energy production independently. The income generated by the sale of electricity provides a source of remuneration to pay street collectors and a reduction in waste disposal costs. The value generated directly benefits local communities, be it on an economic, social or environmental level.

5 to 12 Tons

The amount of plastic waste that can be treated daily with Biogreen® solution, which adapts to a population of 50,000 to 250,000 inhabitants

850° C technology

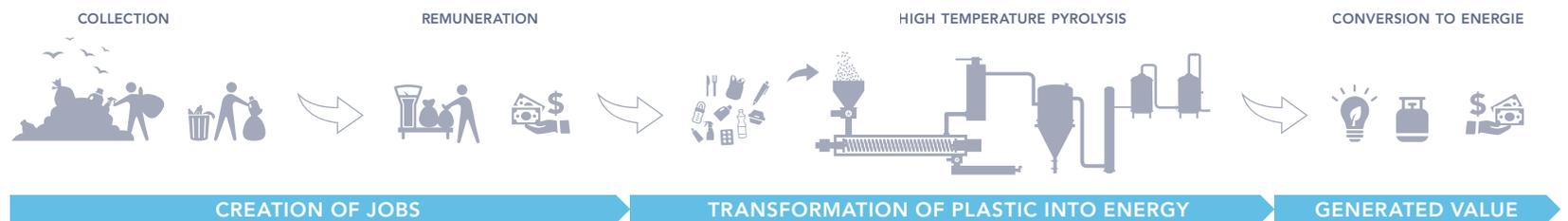
High temperature pyrolysis without combustion

up to 2.5 MWh

Electricity produced per ton covering the needs of 6,000 households in certain targeted areas



Several Biogreen® implementation projects are under study, including Iquitos (Peru).



Based on specifications drawn up by Race for Water, the company ETIA has developed a Biogreen® solution for optimised conversion of plastic waste into energy by high-temperature pyrolysis.

To promote a local solution to transform plastic waste into electricity at each stopover

LET'S PRESERVE THE OCEANS TOGETHER

Your commitment to the Foundation is key to winning this fight against plastic pollution in our oceans.

MAIN PARTNER



The Breguet company is a world reference in the field of watchmaking. Its involvement alongside the Foundation for the next four years is a strong sign of its commitment to the cause of ocean preservation. This collaboration is a wonderful recognition for the teams of Race for Water who work daily on all the seas of the globe. Thanks to this partnership, the impact of our actions is strengthened.

OFFICIAL PARTNERS



OFFICIAL SUPPORTERS



INSTITUTIONAL PARTNERS



OFFICIAL SUPPLIERS



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SUPPORT US,
ACT!

RACEFORWATER.ORG

media@raceforwater.org

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Race for Water Foundation
Avenue de Provence 4
1007 Lausanne, Switzerland
info@raceforwater.org