

MARINE TECH

WHEN THE SUN CREATES WATER...

Relio



On the cosmic scale, water is rarer than gold...
...and infinitely more precious for life.

Hubert Reeves





Created to develop cutting-edge and environmentally friendly technology, **Marine Tech** has unparalleled expertise and knowledge of the sea.

With a large share of its budget devoted to research and development, **Marine Tech** is totally committed to high-performance industrial and technological innovation.

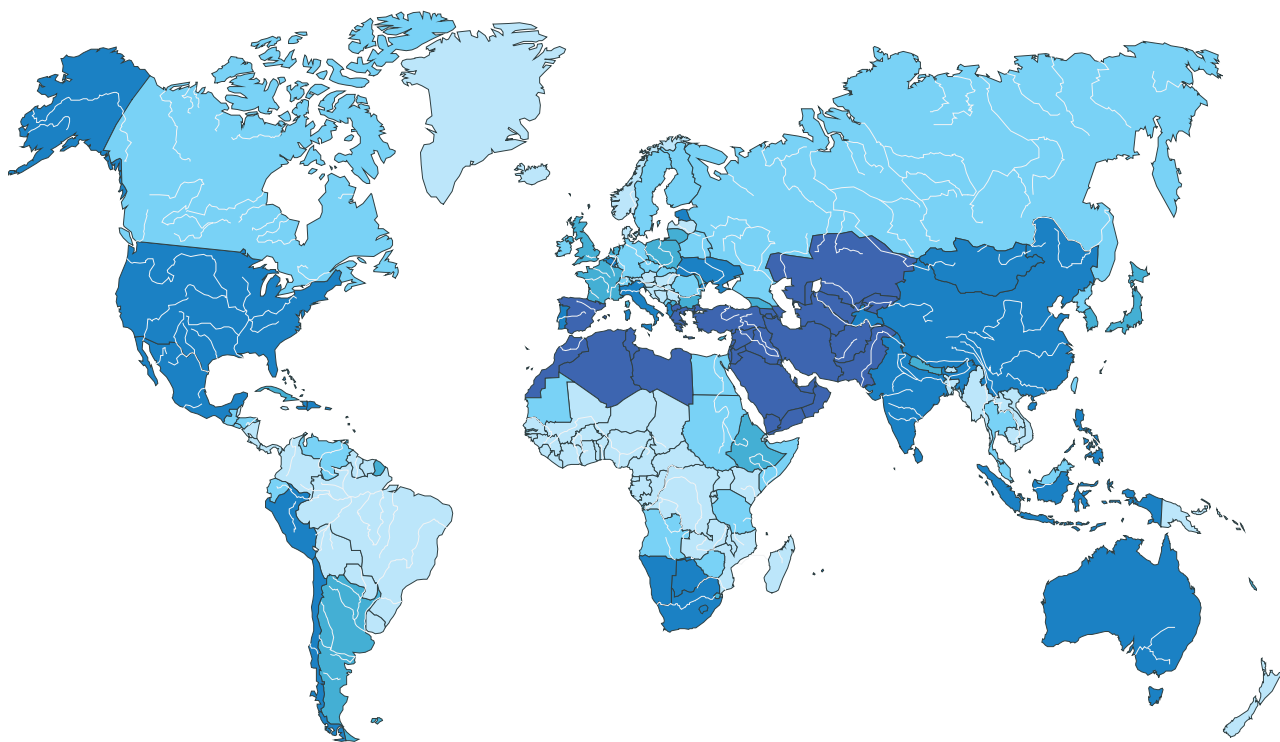
Through its international network, the company has operations worldwide.

Because protecting the environment is an ongoing challenge for the future...



THE LACK OF DRINKING WATER

WATER STRESS BY COUNTRY: 2040



800
MILLION

PEOPLE DON'T HAVE ACCESS
TO SAFE WATER.

2
MILLION
DEATHS

DUE TO WATER-BORNE
DISEASES

+ 50%

INCREASE OF THE WATER
DEMAND BY 2030.

SOURCES : World Resources Institute
WHO - UNICEF, 2017



DESCRIPTION

HELIO is an autonomous drinking water production unit working with solar energy only.

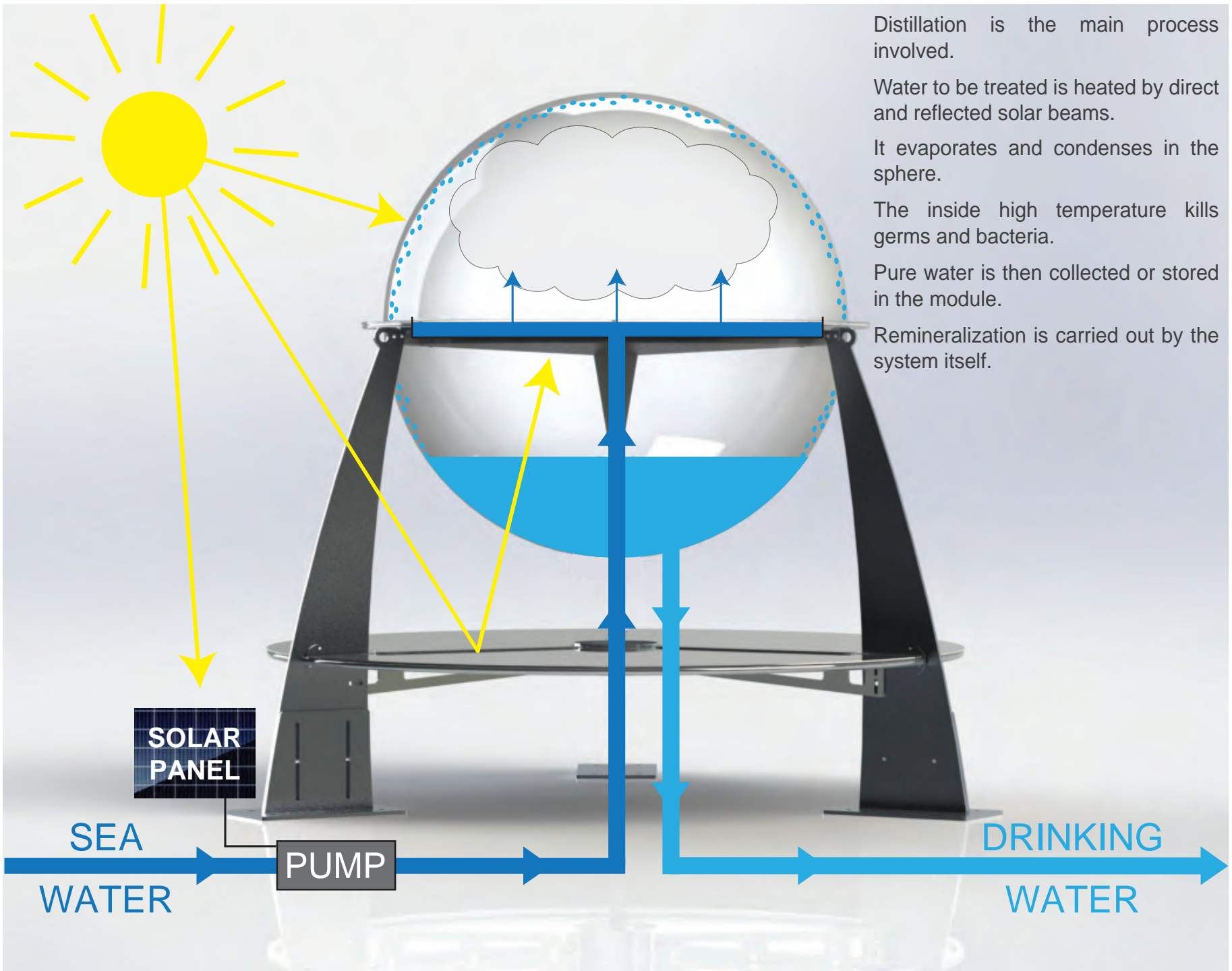
Thanks to the distillation process, HELIO treats any type of water unfit to human consumption.

Cost-effective, fast to install and having many configurations adaptable to the need, HELIO represents one of the best solutions of drinking water production combining simplicity and accessibility for all.

A SOLUTION,
HELIO...

PRINCIPLE





Distillation is the main process involved.

Water to be treated is heated by direct and reflected solar beams.

It evaporates and condenses in the sphere.

The inside high temperature kills germs and bacteria.

Pure water is then collected or stored in the module.

Remineralization is carried out by the system itself.

CONFIGURATION ON DEMAND...

DISTILLATION MODULE

Transforms seawater in drinking water.

2

REGULATION MODULE

Regulates and distributes the seawater.

1

SOLAR
PANEL

3

WATER OUTLET

A farm is composed of several modules in order to match the water demand.

Therefore, numerous configurations are possible.



FOR A FAMILY OF 5 PERSONS



FOR 25 PERSONS



FOR 500 PERSONS



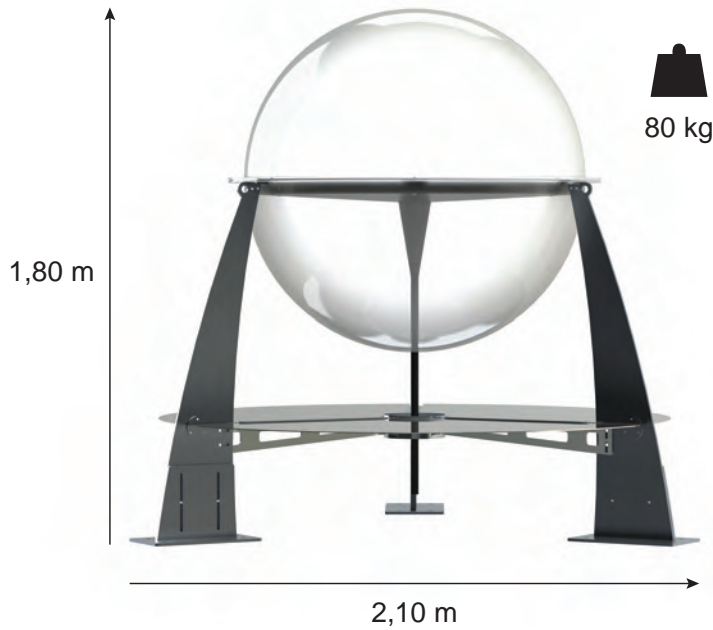
FOR 7500 PERSONS





Credit: Rizwan Tabassum-AFP

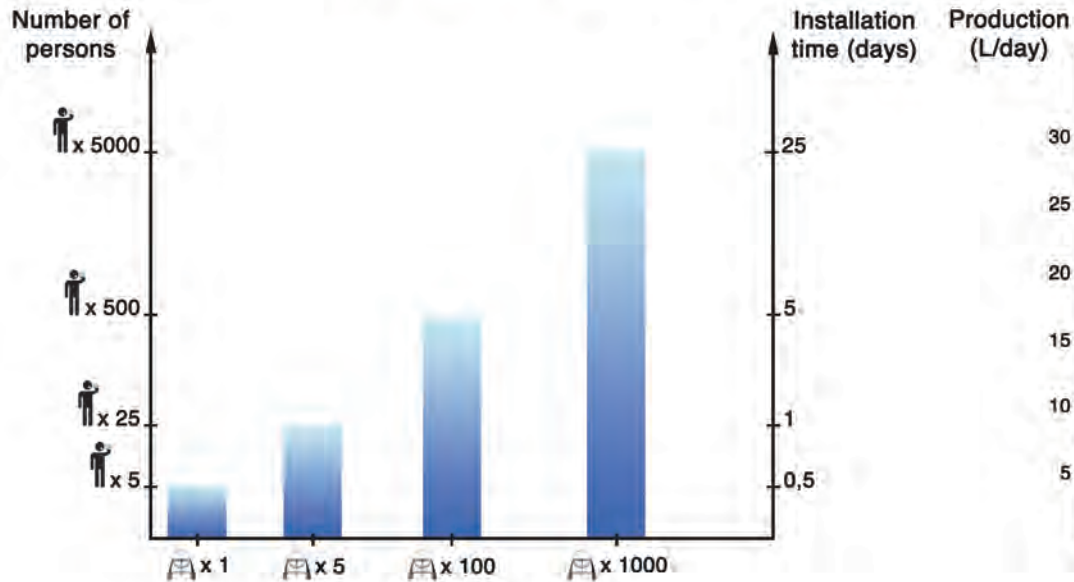
SPECIFICATIONS



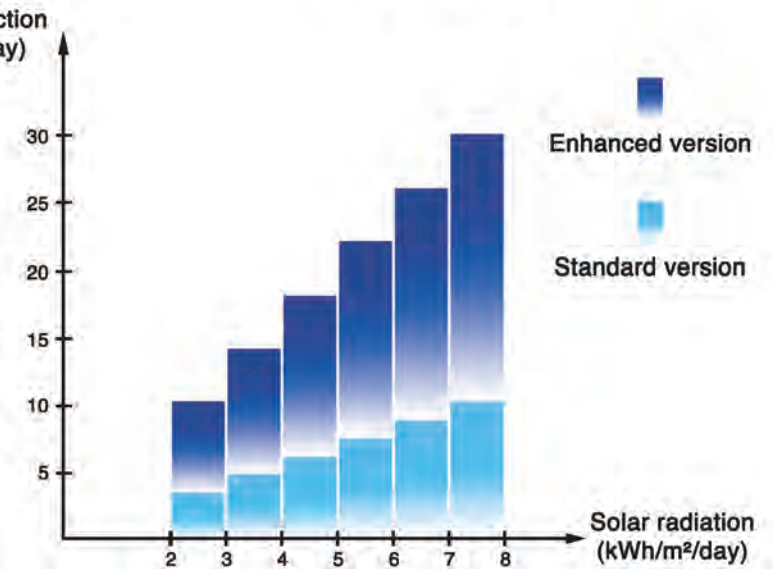
- ▶ The effective module surface is 1 m².
- ▶ Easy access for maintenance.
- ▶ The materials constituting HELIO have a 30 years lifetime.
- ▶ HELIO is weather and storm resistant.

PERFORMANCES

Helio farm sizing depending on water demand and installation time



Water production per module depending on solar radiation



- ▶ Standard version produces an average of 10 liters per day.
- ▶ An enhanced version could produce 30 liters per day.
- ▶ Quick installation time.
- ▶ Modules can be easily added to a farm to match the water demand.

BENEFITS



ONE OF THE CHEAPEST WATER IN THE WORLD

The simplicity and the long lifetime of the system make HELIO a cost-effective solution.

HELIO uses renewable energies only, which reduces the running cost.



TREATS ANY TYPE OF WATER

Thanks to the distillation process, HELIO can treat any type of water.

To make water drinkable, the system adds minerals.



WATER FOR ALL

HELIO improves access to water in areas suffering from water scarcity.

Thanks to HELIO, local populations can produce their own water on site.

TREATS ANY TYPE OF WATER



PROJECT SUPPORTED BY:



Région
Provence
Alpes
Côte d'Azur

bpifrance



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