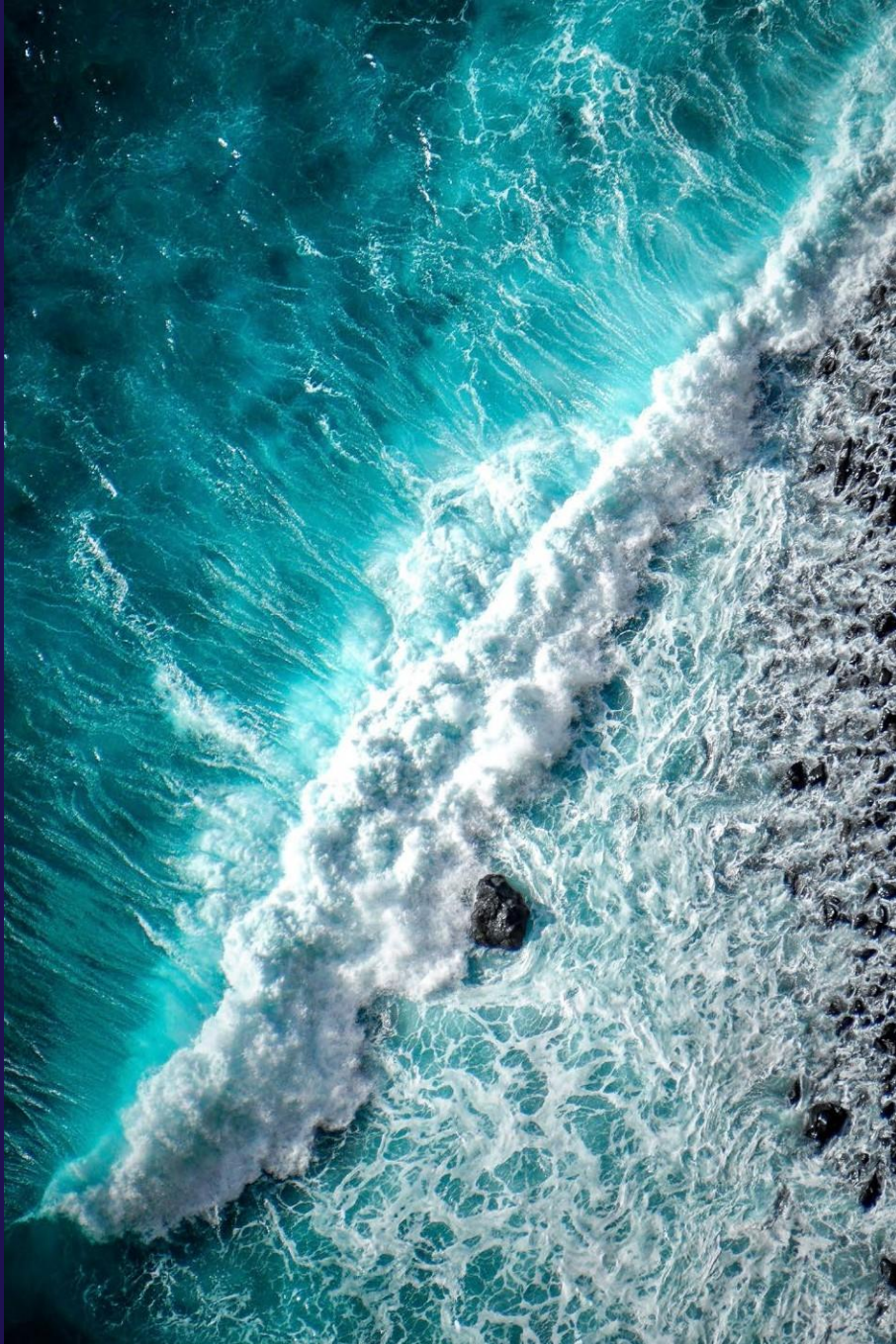


N°5 - May 2024

NEWSLETTER

SEAWARDS IN ALL ITS STATES



SEAWARDS

EDITORIAL !

Desalination, a path for the future

As a hub for innovation and sustainable development in the maritime sector, the Grand Port Maritime de Marseille is firmly committed to supporting and assisting innovative initiatives that help address the environmental and economic challenges we face.

Seawards perfectly embodies this vision with its revolutionary approach to making desalination accessible while minimizing its ecological impact. This is an ambitious goal in a sector where conventional solutions are often energy-intensive and polluting. Seawater desalination represents a major alternative in the face of growing global water stress.

The Marseille Fos industrial-port zone, with its strategic location in the Mediterranean and its diverse range of activities, provides a favorable environment for hosting innovative projects like Seawards within a rich regional ecosystem conducive to their development and growth.

We wish Seawards a prosperous development !



**BY RÉMI COSTANTINO, DEPUTY
GENERAL DIRECTOR OF THE GRAND
PORT MARITIME OF MARSEILLE**



Regional anchoring... Always the first!

Seawards is committed to industrializing a technological innovation – together and differently, increasing water resources for the benefit of the greatest number, respecting the environment, strengthening the necessary harmony for life, and ensuring the safety of men and women.

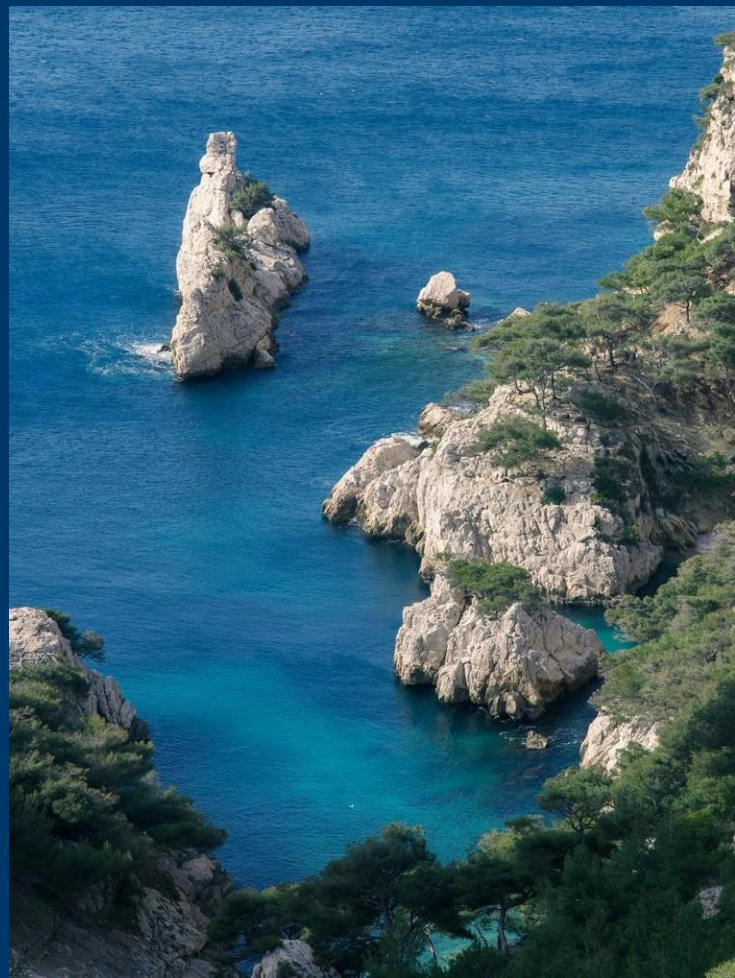
We will be the first in the world to offer an industrial desalination solution using cold separation without any polluting discharge.

Seawards has chosen regional anchoring to promote this groundbreaking industrial innovation. We thank the SUD Region, its President Renaud Muselier, and all his teams who have supported us from the very beginning.

This regional anchoring, a core part of our commitment, is demonstrated in various ways: by participating in regional events focused on ecological transition, integrating the Mediterranean Water Institute, working from Zebox, the CMA CGM Group's accelerator spanning five continents, and setting up our first laboratory plant at the innovative business incubator in Pertuis.

Our team of engineers is thriving in this conducive environment, achieving conclusive results that now allow us to work on installing a prototype in a real-world environment at the Grand Port Maritime of Marseille.

We thank the Grand Port Maritime of Marseille, its President Hervé Martel, and its Deputy General Director Rémi Costantino for their trust in hosting the first pilot unit of a desalination plant using cryo-separation.



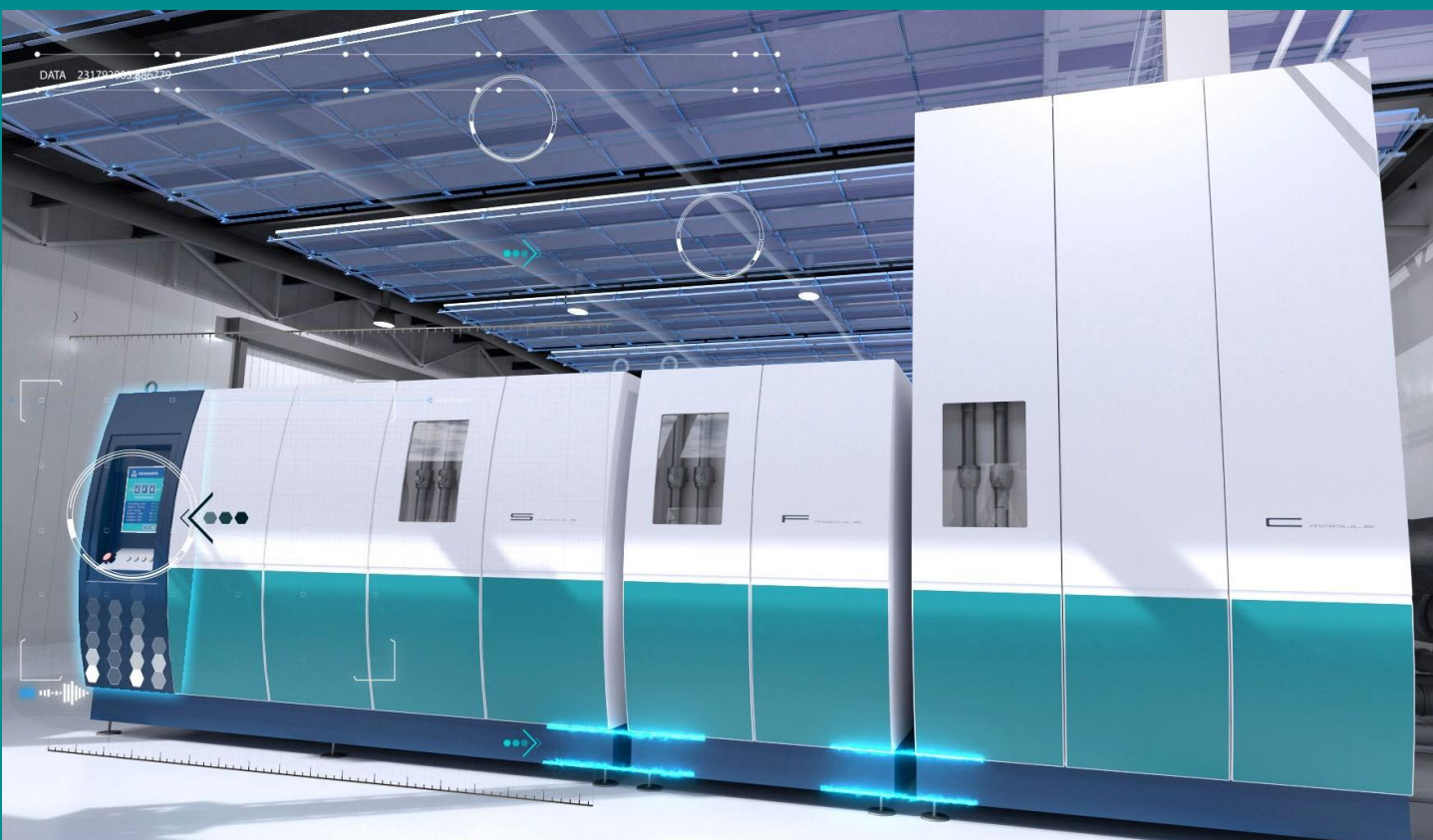
Proving efficiency !

«After 18 months of aggregating our expertise, we are demonstrating the industrial efficiency of our seawater desalination method,» assures Hubert Montcoudiol, co-founder of Seawards.

This method is based on several pillars: water quality, neutral environmental impact, and cost competitiveness for low, medium, and high production capacities. Several objectives have already been achieved. According to analyses from independent laboratories, the freshwater from the desalination cycle is drinkable, containing only 0.25 grams of salt per liter (250 ppm) with no additives during the process.

The seawater discharged during the desalination cycle has a slight extra salinity that never exceeds 10%, making it perfectly neutral for the marine ecosystem.

Another upcoming achievement is controlling our energy balance. Our R&D teams are making continuous progress. Thanks to highly competitive OPEX, due to very low maintenance costs, our production costs are already approaching those of technologies like Reverse Osmosis. This bodes well for the next stages of development.



A new governance



As part of our expansion, we are proud and happy to announce that Mr. Elie Zeenny has accepted the presidency of Seanergy Industries, the subsidiary that will oversee the engineering and industrialization activities of cryo-separation.

With over 30 years of experience in international business development, including 15 years in maritime transport across EMEA, Asia, and Oceania, and a deep understanding of industry challenges, Elie Zeenny, who retains his role as Head of Global Strategic Alliances, is committed to using his expertise and global vision to help resolve water stress.

«In a difficult global context marked by climate change and environmental disruptions, access to water has often been a source of conflicts, misery, and population displacements in many regions of the world. Seawards represents an issue that is particularly close to my heart, and I am committed to mobilizing teams around our industrial development, here in Marseille and beyond the borders of France.»



NEWS !

Seawards in pole position

Seawards is advancing on all fronts. Present at the French delegation at COP 28 last December to showcase its work to the international community involved in the transition of our societies, then at Euromaritime in Marseille, the IME meetings in Tunis in February, and major debates at the "Change Now" event at the Grand Palais in Paris in April, Seawards has participated in six months of diverse and impactful events. All of these confirm the growing prominence of our brand in the water ecosystem.

«Each event has been an opportunity to observe the relevance of the industrial innovation carried by our engineering teams,» say Hubert Montcoudiol and Hervé de Lanversin, co-founders of Seawards.

«These various participations, in collaboration with Business France, BPI, and the Mediterranean Water Institute, highlight the recognition of our work. Our development is progressing step by step, anchored in the SUD region, allowing us to fulfill our commitment to addressing global water stress through the deployment of an innovative, non-polluting, agile, and efficient desalination technology,» details Hervé de Lanversin, co-founder.

«Our ambition remains unchanged: to facilitate access to water resources for as many people as possible across all territories. Our industrialization phase is well underway. Beyond the enthusiastic reception of our project, all signs are positive. Our deployment is taking shape with the planned installation of a pilot unit at the Grand Port Maritime de Marseille. The work of our engineers based at the Pertuis innovative business incubator is yielding conclusive results...» says Hubert Montcoudiol, co-founder.

Encouraging signs include increasing international contacts in the Middle East, Africa, Asia/Oceania, and Europe, proving the relevance and necessity of our approach. The ongoing transition toward a sustainable world is now an absolute priority, and Seawards will be part of the solution.

«This is the promise carried by Seawards, and it will be fulfilled by bringing together all relevant stakeholders, together and differently !»



TRIBUNE !

Does nature always get it right ?

This article is based on the work of two scientists, Pierre-Henri Gouyon, biologist, and Francis Hallé, botanist. Their research was highlighted by Martin Legros in an article published in Philosophie Magazine.

«Plants are undoubtedly more civilized but, more importantly, more sensitive to ecological consistency: living in harmony with their environment.» Francis Hallé, Botanist.

Pierre-Henri Gouyon, professor at the Museum of Natural History and an expert in evolutionary theory, explains in his work that life is not a stable order but a system in constant imbalance. The foundation of life consists of ongoing extinction and divergence.

Diversity is nature's fuel; life is maintained by mixing and chaos among individuals, populations, and species.

So, does nature always get it right?

Given climate change driven by human activity and resource shortages, successive COP conferences alone will not suffice !

**Should we return to nature ?
Or continue the technological journey to restore it ?**

Between the image of the planet's natural integrity, illustrated by the canopy of the primary forest—Earth's natural and intelligent lung, which must be preserved from human impact—and that of research laboratories, the only ones capable of rebuilding and restoring the diversity described by Pierre Henri Gouyon, we are presented with two different yet not incompatible representations of a necessarily dynamic balance for nature.

The principle of stockpiling or reserves to cope with the risk of shortages and anticipate crises amounts to acting as if creation were final and not the result of a continuously evolving process

It is mistaken to believe that we can save living beings by freezing them in place or prevent resource shortages by stockpiling.

In contrast to reserve stocks, the biodiversity laboratory is the driving force of nature. It is, in fact, dynamic.

Seawards works to enrich this laboratory and increase water resources without threatening either biodiversity or the environment.

We have chosen to commit ourselves to these biodiversity laboratories and invite the world's leaders to support us in building and maintaining the chaos from which the solution emerges.

Hervé de Lanversin
Co-founder

