

*Innovation/ Storage/ Energy*

## **REMORA Home, soon a sustainable alternative to batteries for storing self-generated renewable energy**

- *With REMORA Home, the SEGULA Technologies engineering group is making renewable energy storage accessible to private individuals by offering them a compact, stylish, sustainable and connected solution.*
- *REMORA Home provides intelligent management of household electricity consumption.*
- *Initially designed for energy storage in the marine environment, REMORA technology is now being adapted for domestic use.*
- *Currently in the test phase, the REMORA Home solution will be deployed in the first homes by the end of 2026, with a market launch planned for 2028.*



*With an overall efficiency of 70%, a lifespan of at least 30 years and durable materials, REMORA Home offers an excellent alternative to lithium-ion batteries (©SEGULA Technologies).*

The engineering group SEGULA Technologies is unveiling **REMORA Home**, an innovative energy storage solution for homeowners **with photovoltaic panels** or domestic wind turbines who are keen to become energy independent and reduce their ecological footprint. This solution will enable them to store surplus energy for future use.

REMORA Home is based on a **patented** isothermal air compression and decompression **process**.

### **A discreet and intelligent ally for connected homes**

Easily integrated into any type of home, the system consists of two parts:

- Firstly, a **reversible compressor** to be connected to the solar panels, which converts the surplus energy produced into compressed air. Similar in size to a conventional water heater, this compressor can be installed in the house, garage or cellar, for example.
- Secondly, a cabinet housing the **compressed air cylinders** used for storage, which can be placed either indoors or outdoors.

When energy production is insufficient - in the absence of sun or wind, for example - this air is then released and converted into electricity, guaranteeing **continuous and reliable energy autonomy**.

To control the whole system, **an intuitive mobile application enables users to monitor their own consumption and reduce their electricity bills**. The application provides personalised recommendations, can be used to check that the system is operating correctly, and can be connected to certain household appliances to optimise their use.

### **A robust, low-carbon solution**

With an overall efficiency of 70% and a **lifespan of at least 30 years**, REMORA Home offers an excellent alternative to lithium-ion batteries. The system generates no polluting emissions and, unlike batteries, is made from **robust, durable and easily recyclable materials** (steel, aluminium).

*"The storage of renewable energy, particularly in the home, is a major problem and a key issue for the future. With REMORA Home, we are offering private individuals the chance to optimise their individual production, free themselves from fluctuations in electricity prices and play a full part in the energy transition," emphasises [David Guyomarc'h](#), REMORA project director and head of R&D at SEGULA Technologies. "This intelligent, sustainable solution is the answer to a growing need for autonomy and efficient energy management in the home.*

SEGULA Technologies is thus confirming its ambition to revolutionise the energy storage sector by offering innovative and sustainable solutions for modern households.

## The test phase is already well advanced

The test phases, which began in January 2024, have already demonstrated REMORA Home's ability to store air on a scale suitable for a home with good performance.

In 2025, laboratory tests will focus mainly on energy storage.

SEGULA Technologies then plans to **deploy pilots in individual homes by the end of 2026** to test the technology over the long term and user interaction with it. These final stages will enable all the functionalities to be validated before the product enters mass production, with marketing scheduled for 2028.

*REMORA Home is an evolution of [REMORA Offshore](#), initially designed to store renewable energy under the sea. This technology is now available in two onshore versions: [REMORA Home](#) is aimed at private customers, while [REMORA Stack](#) offers large-scale mass storage, particularly for industrial sites.*

## PHOTOS

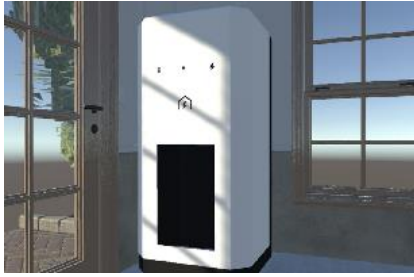
To download the following visuals in high definition click on them (credit: SEGULA Technologies) :



The REMORA Home storage solution consists of a reversible compressor and compressed air cylinders.



(Version with integrated captions)



REMORA Home compressor, with dimensions comparable to those of a conventional water heater.



Storage box for compressed air cylinders.

Please note: as REMORA Home is currently still in the testing phase, these are provisional representations and not an exact reflection of the final product.

### About SEGULA Technologies

*SEGULA Technologies is a global engineering group, serving the competitiveness of all major industrial sectors: automotive, aerospace, energy, rail, naval and pharmaceuticals. With a presence in more than 30 countries and 150 offices worldwide, the Group is committed to building close relationships with its customers through the skills of its 15,000 employees. As a leading engineering company with innovation at the heart of its strategy, SEGULA Technologies carries out large-scale projects, from design through to industrialisation and production.*

For more information: [www.segulatechnologies.com](http://www.segulatechnologies.com). Follow SEGULA Technologies on [LinkedIn](#).

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