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THE MOBILE HELIUM RECYCLING UNIT CARRIED BY 45-8 ENERGY, RECYCL'HE, ENCOURAGED AND SUBSIDISED BY THE GRAND EST REGION AND THE FRENCH GOVERNMENT WITHIN THE FRANCE 2030 PLAN.

On 29 January 2023, the French Grand Est region and the French government, within the France 2030 Plan, awarded 45-8 ENERGY a grant of €439,000 to support the development of its mobile helium recycling unit. This innovative solution, called RECYCL'He, was conceived and designed by 45-8 ENERGY, the company dedicated to the exploration and the ecoresponsible production of industrial gases - helium and natural hydrogen.

RECYCL'He has a clear goal: preserving helium, a rare and strategic resource, by democratising its recycling in Europe.



With its pioneering position in the European helium industry, its expertise in gas separation and its dynamic R&D, 45-8 ENERGY is the ideal actor to carry out this innovative project, which will enable the emergence of a circular economy for the helium resource.

The official launch of the activity is planned for the end of 2023.

THE FIRST MOBILE HELIUM RECYCLING UNIT IN EUROPE!

The RECYCL'He solution was born out of a strong observation: today we are witnessing a worldwide shortage of helium and an increase in the strategic uses of this gas (electronics, lifting, medicine, precious metal recycling, etc.). And yet 99% of the helium used in Europe is released into the atmosphere after single use. The RECYCL'He system aims to avoid this waste in order to preserve this rare resource.

This project is financed by the Grand Est Region and by the French government within the France 2030 Plan.



How does RECYCL'He work?



1. Salvage and purchase of used helium

The mobile unit travels to the helium salvage site. The used helium is then stored in the mobile unit for transport.

2. Purification of the used helium in a dedicated unit

We then transport this used helium to one of our dedicated sites for purification of the resource.

3. Return of purified helium to the market

This re-purified helium can then be returned to the market to meet the needs of consumers.

A PROJECT AT THE HEART OF CURRENT SOCIETAL AND ENVIRONMENTAL ISSUES

The current geopolitical, economic and ecological context allows 45-8 ENERGY to propose an innovative solution that responds to many issues:

- Securing an access to a strategic resource necessary for many industries. In addition, the solution strengthens the competitiveness of helium consumers by reducing their operating costs or enabling them to generate additional income from the sale of the used resource.
- Safeguarding a scarce resource, currently imported at great cost to Western Europe, by encouraging the emergence of a local circular industry.
- Reducing drastically the impact of the helium sector by recycling and valorising locally the resource, compared to the traditional sector of deep extraction and long-distance transport mainly from the US, Qatar, Algeria and Russia.

A PROJECT SUPPORTED BY THE GRAND EST REGION AND THE FRENCH GOVERNMENT

Within the France 2030 Plan, a call for projects “AAP Innovation Project PIA4” was launched by the French government and the Grand Est region, coordinated by Bpifrance. This action is in line with the desire to support the projects of regional innovative companies to promote economic development, support for innovation and employment in the Grand Est region.

Obtaining this grant by the Region and the French government highlights the innovative nature of the RECYCL'He system, both in terms of mobility and flexibility.

ABOUT 45-8 ENERGY

45-8 ENERGY is a company dedicated to the exploration and eco-responsible production of industrial gases such as helium and natural hydrogen, as well as associated resources.

45-8 ENERGY's ambition is to meet the growing need for strategic resources and to participate in Europe's search for energy independence, in a context of ecological transition and the absolute necessity to decarbonise our energy and our uses.

With secured exploration and production licenses in Europe and a production start of helium in France in 2023, 45-8 ENERGY is strengthening its position as European leader and accelerating its international development.

Some figures



Creation of
45-8 ENERGY



employees



raised
since 2017



are currently being raised for
a closing expected at the end
of March



MORE INFORMATION
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