

GREEN INDUSTRY

MAXIBROME, Séché Environnement's innovative bromine regeneration process

On June 8, 2023 in Saint-Vulbas in France's Ain region, Séché Environnement is inaugurating Maxibrome, a leading-edge bromine regeneration process that is now capable of fulfilling almost one third of French industry's needs. This innovation comes as good news for the environment, since producing regenerated bromine from waste emits 20 times less CO₂ on average than extracting virgin bromine. Séché Environnement, a long-standing player in waste management, is continuing to grow its activities in the circular economy and the industrial decarbonization sector.

Since 2015, the TREDI site in Saint-Vulbas (a subsidiary of the Séché Environnement Group) has been pioneering a process for regenerating bromine-bearing brines. This technology is capable of recovering up to **99% of the bromine** contained in this waste, which is considered to be hazardous and was previously destroyed through incineration. This waste is transformed into bromine, which can be reused directly by the chemical and pharmaceutical industries.

Maxibrome: more regenerated bromine with fewer CO₂ emissions!

The TREDI Saint-Vulbas teams are now going one step further. By adding oxygen during the combustion phase, **Maxibrome can now boost the site's regenerated bromine production capacity by 60%**.

Maxibrome has given TREDI Saint-Vulbas world leadership status in bromine regeneration.

A circular economy loop

Expertise in this circular economy loop will help:

- Avoid the **extraction of a rare natural resource**, which is usually sourced from the Dead Sea region
- Increase French and European sovereignty by reducing dependence on a predominantly imported material
- Lower water consumption, since Maxibrome uses up to **3,000 times less water** on average than virgin bromine production
- Rein in greenhouse gas emissions; producing one ton of regenerated bromine emits **20 times less CO₂** on average than producing one ton of virgin bromine

This unique expertise in Europe is contributing to efforts aimed at decarbonizing the chemical and pharmaceutical industries.

Strengthening industrial sovereignty

Now capable of fulfilling nearly **one third of national demand** with its regenerated bromine, the TREDI site in Saint-Vulbas offers a secure local solution for supplying this chemical element, which is essential to many industrial processes. As such, Maxibrome is playing a role in reinforcing industrial expertise in France and Europe.

"Maxibrome perfectly reflects our expertise in the circular economy. Manufacturers can now harness the resources in their waste and incorporate them into their manufacturing processes. By producing regenerated and decarbonized local resources, Séché Environnement is helping protect natural resources, promote industrial relocation and create a net-zero economy," explains **Maxime Séché, CEO of the Séché Environnement Group.**

This new industrial innovation bears testament to a **€12 million** investment and is fully in line with the circular economy strategy and environmental protection approach that define the Séché Environnement Group's DNA.

About TREDI Saint-Vulbas

The Trédi site was created in Saint-Vulbas in 1976 and is one of the first companies to be established in the Plaine de l'Ain industrial park. Trédi, a subsidiary of the Séché Environnement Group since 2002, specializes in treating and recycling the most complex types of waste, especially the thermal treatment of hazardous industrial waste and the recovery of bromine. The Trédi site in Saint-Vulbas has forged a global reputation for its unique expertise in managing hi-tech hazardous industrial waste at its thermal treatment facility.

About Séché Environnement

Séché Environnement is a leading player in waste management, including the most complex and hazardous waste, and in environmental services, particularly in the event of an environmental emergency. Empowered by its expertise in creating circular economy loops, promoting decarbonization and containing hazards, the Group has been playing a role in protecting the living environment and helping industries and communities lead their ecological transition strategies for nearly 40 years. Séché Environnement, a French family-owned industrial group, deploys the cutting-edge technologies pioneered by its R&D teams on the ground at over 120 sites in 15 countries, including around 50 industrial sites in France. With more than 5,700 employees, including over 2,500 in France, Séché Environnement generated revenue of close to €900 million in 2022, 30% of which in the international market.

Séché Environnement has been listed on the Euronext Eurolist (Compartment B) since November 27, 1997. Its shares are included in the CAC Mid&Small, EnterNext Tech 40 and EnterNext PEA-PME 150 indexes. ISIN: FR 0000039139 – Bloomberg: SCHP.FP – Reuters: CCHE.PA

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