

# A global player for environmental management

- Offices / treatment sites
- ▲ Ongoing or completed contracts



# Séché Group, a world of solutions



## Industrial gas treatment



### Complete and safe handling of industrial gases

Through the subsidiaries, Trédi and UTM Umwelt Technik-Metallrecycling GmbH, Séché Group provides specific solutions for the collection and the thermal treatment of cylinders containing hazardous or unidentified industrial gases, regardless of their packaging.

#### Séché's expertise

- Control of the entire treatment chain
- Innovative treatment technology
- Safe disposal of "orphaned" gas cylinders
- Treatment solutions for damaged cylinders



### Our teams are at your service



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Creation: studioversion2.com - Pric: Francois Vignaud/Wolfgang Steinborn - 2018 - Printed on PEFC paper from sustainably managed forests.





# Control of the entire treatment chain

Because of its chemical expertise and its facilities in France and Germany, Séché Environnement provides a global solution for the management of industrial gases:

- Identification and classification
- Definition of the most appropriate packaging and storage method
- Provision of secure packaging for transportation
- Traceability and administrative follow-up
- Collection (ADR certification)
- Thermal treatment
- Recovery of solvents and metals (acetylene bottles)
- Final waste disposal
- Total traceability

## Typology of gases

- Acetylene bottles
- Flammable gases
- Halogenated gases: CFC, HCFC, Halons, SF<sub>6</sub>, derivatives
- Toxic and corrosive gases



Halogenated gases are greenhouse gases: their treatment prevents the emission to the atmosphere of nearly 7.8 million t<sub>ecq</sub>CO<sub>2</sub> per year.

## Secure container handling

- Rigorous acceptance procedures
- Technical expertise to determine the most appropriated packaging and transport solution
- Provision of foldable racks for transportation
- Transportation in safety containers for highly damaged and/or dangerous cylinders (sarcophagus)
- Reception in adapted and secure building (ventilation, atmospheric air measurement, depression)
- Leak test at reception to choose the appropriate treatment process
- Online sampling and analysis with mass spectrometer and infrared technology
- Specially trained staff



# Thermal treatment and material recovery

Industrial kilns incinerate gases at high temperatures. The Facility continuously monitors all operational processes and atmospheric emissions. The injection of the gases for treatment by incineration is made without deconditioning, no matter the volume or the type of cylinder.

- Cabinet solution
  - Cylinders in a good condition for handling
- Sarcophagus solution
  - Cylinders with damaged valve, drilling necessary

Empty cylinders are destroyed or purged and returned to the client.



## Continuous improvement



# Emergency salvage operations

Séché Group can provide salvage operation services on an emergency basis. Thanks to its subsidiary, UTM, this is accomplished by using a remote-controlled robot (ROSS) and salvage containers (GASTOR) for the safe transport and temporary storage of gas cylinders of various sizes.

In addition, Séché Group can schedule non-emergency transportation of potentially hazardous gas cylinders. Which will be transported in salvage containers to the appropriate facility of Séché Group for treatment.

