GEOLITH
Sustainable Lithium

Our vision: Making Lithium Sustainable

Lithium Industry has multiple challenges in relation with Energy Transition:

- Increase production (to meet demand)
- Secure supply
- Minimize Environmental Impact

GEOLITH response:

- An innovative DLE (Direct Lithium Extraction) process based on a patented microfibre media.
- A selective and reversible lithium capture
- Capable of extracting lithium from a wide range of natural or industrial brines

Geolith Li-Capt solution

Nano-structures grafted on **micro fibres** for a **selective, reversible capture of lithium** from a complex brine

Outstanding performances:

- Up to 95% capture rate
- Tested on real brines from 25 to 500 ppm Lithium
- High lithium brine purity
- Limited pre-treatment
- Competitive treatment costs
- Treatment in less than 1 hour

How GEOLITH can help you?

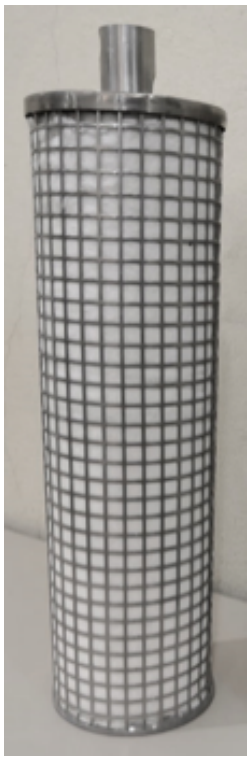
The Li-Capt technology developed by GEOLITH is packaged as cartridges. Supported by services:

- Feasibility studies
- Conceptual design
- Technical assistance for:
  - -detailed design,
  - -construction,
  - -commissioning and,
  - - operations

Our strengths

- Easy and scalable implementation
- Wide range of operating conditions
  - -Concentration (from 25 mg/L)
  - -Temperature (up to 80 °C)
  - -Pressure (up to 40 bars)
- A R&D department
- An experienced team

Our Business Model



Our Business Model is based on the supply of our dedicated Li-Capt media packaged as cartridges.
The cartridges fit into plants similar to water treatment plants. The cartridges concept brings numerous advantages:

- Scalability
- Maintenance
- Separate media supplier and EPC contractor

GEOLITH support the projects through services to the Operator or the EPC contractors or the Developer.

Applications

- Salars brines
- Geothermal brines
- O&G produced waters
- Waste brines
- Battery Recycling (production and end of life)
- Lithium Purification

Sustainability

- Zero Waste
- Zero water losses
- Brine back to origin
- Access to new lithium sources

Lab pilot plant located in the R&D department (Paris-Saclay area)

Industrial pilot plant for geothermal (designed and tested for 80°C and 40 bar)

Contact

Main office and laboratories
Bâtiment 503, rue du belvédère
91400 Orsay – FRANCE
Email: contact@geolith.fr
www.geolith.fr