



**50 YEARS OF
EXPERIENCE IN
THE STORAGE
AND TRANSPORT
OF OIL
PRODUCTS**



ONE OF THE LEADING OIL PRODUCT STORAGE SITE IN EUROPE

One of the **top** European storage sites by size

Capacity in excess of **9 million m³**

40% crude oil and **60%** refined products

30 salt caverns

Connected to the oil facilities of the Fos/Lavéra area and to international pipeline networks

Almost **3.5 million m³** of refined products transferred per year

50 years of experience in strategic and operational storage

Located **100 km** from Marseille

Established in the **Luberon regional nature park**

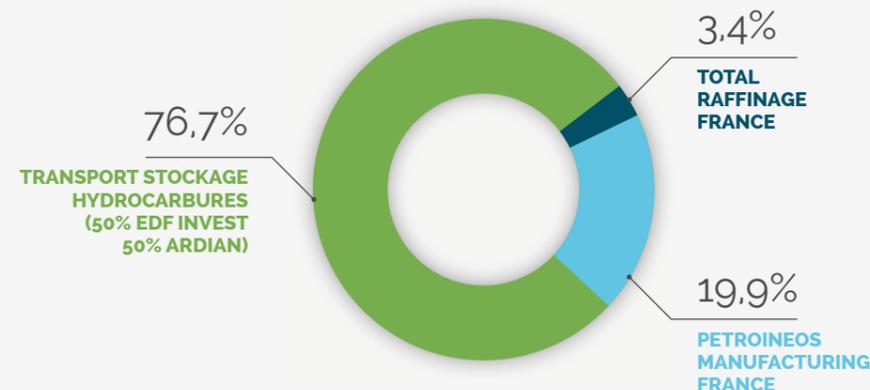
About us

The **Géosel-Manosque** underground storage facility, commissioned in 1969, is one of the biggest European sites for operational and strategic storage of oil products. It offers a storage capacity in excess of 9 million m³ and a network of pipelines, making it a key element in French and European oil logistics.

Located in south-eastern France, near Marseille, it is dedicated to the storage of crude oil and refined products.

The site is connected to the refineries and petrochemical plants of the Fos/Lavéra area, to the Marseille oil port and to the European SPSE, SPMR and NATO (via SPMR) pipeline networks.

Our shareholders



Discover the history of Géosel on our website: www.geosel.fr

A COMPANY COMMITTED TO SAFETY, ENVIRONMENT AND SOCIETY

Safety is our priority

Géosel has formalised its safety and risk-prevention commitments in its Health, Safety, Security and Environment policy, which defines three permanent objectives:

- ZERO** LOST TIME ACCIDENT
- ZERO** MAJOR ACCIDENT
- ZERO** ENVIRONMENTAL DAMAGE

Our commitments



ENVIRONMENT

The Géosel storage site is located in the Luberon regional nature park and is an example of successful coexistence between a sensitive natural environment and an industrial activity.

To address the environmental issues of its location and preserve biodiversity, Géosel undertakes concerted actions with local environmental partners: Luberon regional nature park, the National Forests Office, the Department Fire and Rescue Service.



PREVENTION

The prevention of major accident risks, the safety of its operations and the protection of its staff are permanent priorities that form the backbone of Géosel's HSE policy.

Its strategy, broadly based on prevention, defines three main areas: risk identification and assessment, process control and training.



SOCIETY

Géosel is committed to adopting a civil, responsible attitude towards its employees, service providers and neighbours.

The company has created a training plan for its staff, aimed at ensuring their safety and improving their expertise.

Reassured by its local roots, the company works with associations across the region and provides active support for a range of cultural and sporting events.

Our certifications

The Géosel site has Health, Safety and Environment certification according to the ISRS system (International Safety Rating System) by DNV (Det Norske Veritas) and its operational activity is certified ISO 9001:2015.



OUR STORAGE OFFER



Economic competitiveness



Integration with local, national and European oil logistics



Long experience in operational and strategic stock management



Product quality guarantee



Security, safety and protection of the environment



Our storage capacity

Géosel has 30 salt caverns, each with an individual storage capacity of 100,000 m³ to 600,000 m³, distributed over 8 hectares.

The site can still be extended by re-leaching existing caverns or creating new ones.

Géosel's working capacity for rent is over 9 million m³ in the following product qualities :

- crude oil,
- refined products: Biofree diesel, gasoline, naphtha and heating fuel.

The minimum capacity for storage rental is 20,000 m³ in segregated or commingled mode.

Cavern creation

Géosel's caverns are located at a depth of between 350 and 1000 m in a salt deposit, which is impermeable to hydrocarbons. Their height ranges from 300 to 400 m and their maximum diameter is between 60 and 80 m.

When creating caverns, oil-type drilling is carried out until reaching the salt layer, and the cavern is created by dissolving the salt in fresh water (leaching operation).

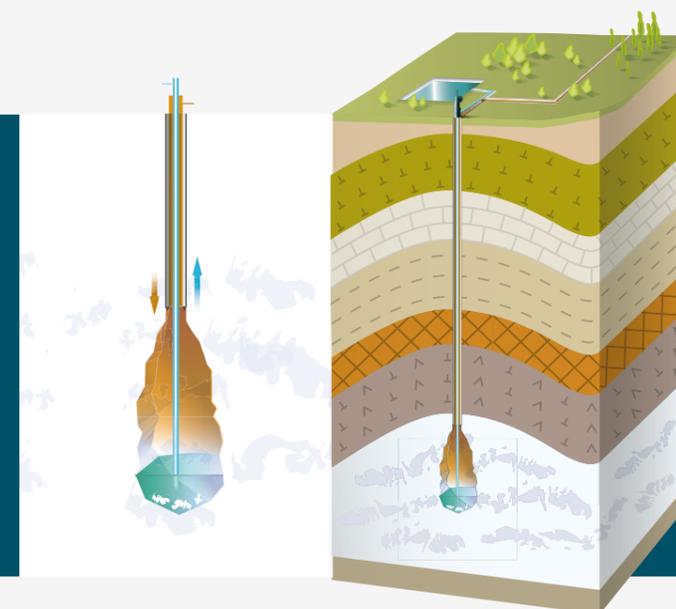
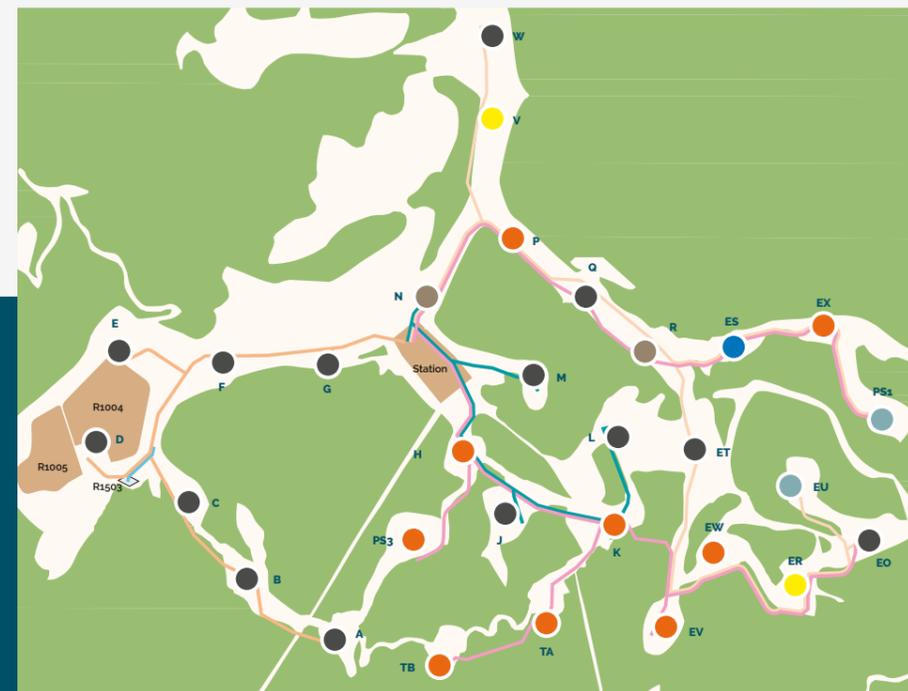
The brine resulting from leaching is then removed by pipeline to dedicated ponds near Fos-sur-Mer.

Storage operation

Petroleum products are stored in the salt caverns by hydraulic compensation using saturated brine:

- when the petroleum products are injected into the caverns, the brine is removed,
- when the petroleum products go out, the brine is injected.

The cavern must always be full in order to be operated and to guarantee its stability.



Cross-section of a salt cavern

OUR TRANSPORT OFFER

Regions served across France and Europe

Géosel offers access to many French and European regions from the storage site, as we are connected to the main pipeline networks (SPMR, SPSE, NATO (via SPMR)).

Reception, expedition and transfer of products

Reception

Reception flow rate is 1000 m³/hour. The oil products arrive at Géosel via pipelines or by sea from the following assets: SPSE, Petroineos Lavéra, Total La Mède, Lyondell Basell and the Fos/Lavéra facilities.

Expedition

Expedition flow rate is from 1000 to 2000 m³/hour. The oil products are transferred out of Géosel through pipelines to the following networks and infrastructures: SPSE, SPMR, DP Fos (via SPMR), NATO (via SPMR), Petroineos Lavéra, Total La Mède, Lyondell Basell and Lavéra for loading ships.

Transfer

In addition to the product qualities stored into the caverns, specific products (jet fuel, condensates, etc.) can also be transported between the various sites connected to the Géosel network, only in the context of transfers.

Network of pipelines between the storage site and Fos/Lavéra

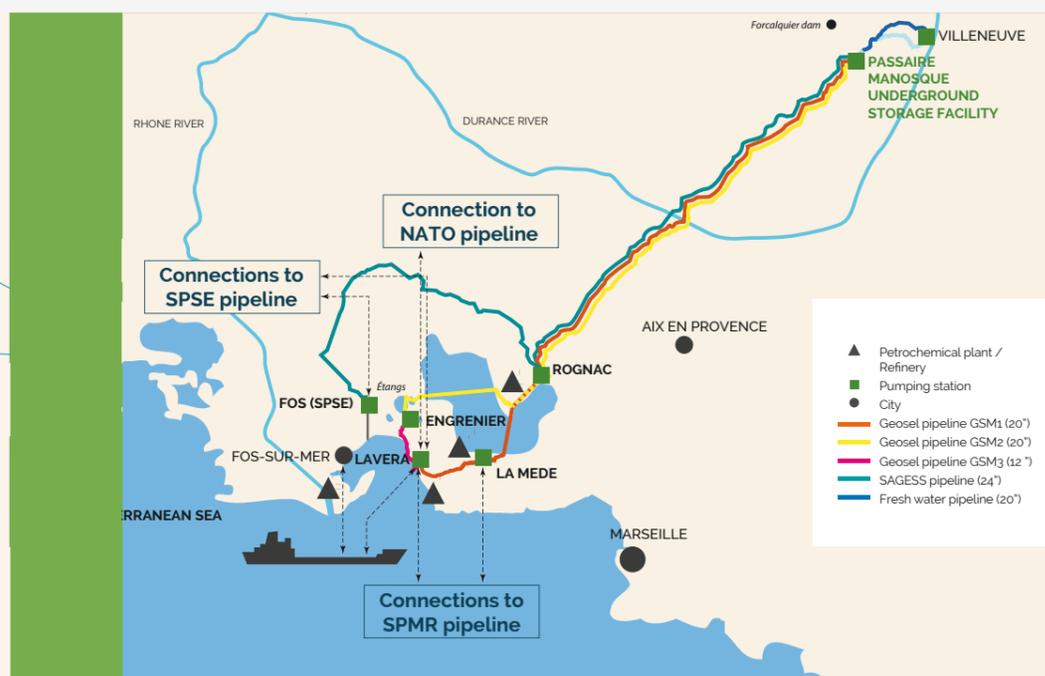
Géosel has a network of about 300 km of pipelines for transporting:

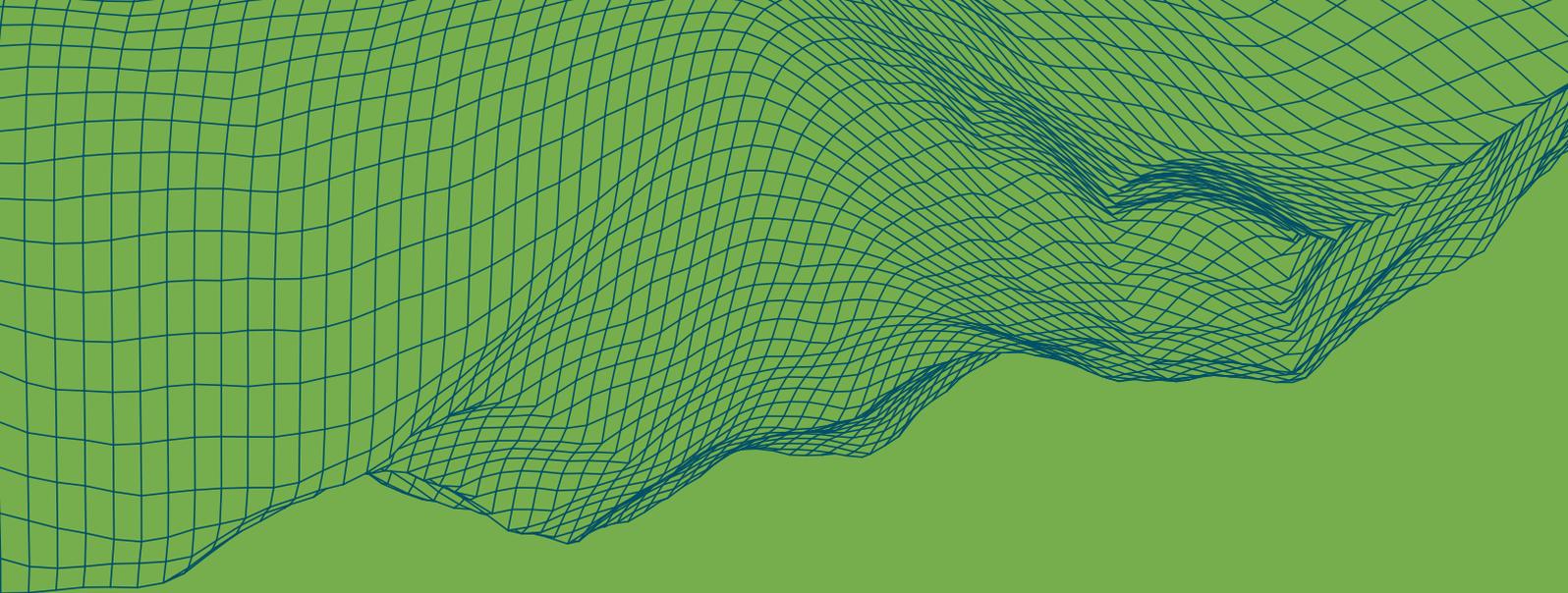
- oil products between the site and the main oil infrastructures in the Fos/Lavéra area: the Marseille oil port, the refineries, the DP Fos (via SPMR), the petrochemical plants and the international SPSE, SPMR and NATO (via SPMR) pipeline networks,
- brine to the Engrenier and Lavalduc ponds in Fos-sur-Mer.

Operational availability

Géosel's infrastructure provides full operational availability:

- complete automatic caverns management, oil product movements and ship loading/unloading,
- 24/7 control from an automated control room located on the storage site,
- permanent monitoring with rapid intervention capability by operators on the network stations when needed (Rognac, La Mède, Lavéra).





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