



**The reference solution**  
for midsize energy projects  
in challenging environments



ONSHORE – OFFSHORE – UNDERGROUND

A subsidiary of VINCI, a global player in concessions and construction, Entrepose is an international contractor that designs, builds and operates **production, transport and storage infrastructure for the entire energy value chain.**

Entrepose works globally to perform turnkey projects as EPCC (engineering, procurement, construction, commissioning) or specialist works contracts. It has an outstanding reputation for expertise and a great number of successes in the management of midsize energy projects in challenging environments.

Entrepose's expertise is supported by a network of local subsidiaries with cross-cutting expertise and major brands recognised internationally. They develop comprehensive solutions covering all infrastructure and equipment projects throughout the onshore, offshore and underground energy sectors, including their interfaces. By offering integrated packages alongside other companies within VINCI's construction division, this expertise can also extend to civil engineering and facilities maintenance.

# OUR SECTORS OF EXPERTISE

## ONSHORE, OFFSHORE AND UNDERGROUND



### ONSHORE

#### EPC

- 1 Micro-refineries
- 2 LPG storage plants with spheres or bullets
- 3 Energy recovery
- 4 Pipelines
- 5 Revamping and upgrading industrial installations
- 6 Processing plants
- 7 Horizontal directional drilling
- 8 Heavy boilerworks and offshore equipment
- 9 Fabrication yards serving the offshore industry
- 10 Full containment LNG tanks and other cryogenic tanks

#### Specialist activities

- 5 Construction works (MEI)
- 11 Compression / pumping stations
- 12 Electric power plants

### OFFSHORE

#### EPC

- 15 EPCI projects and installation of submarine pipelines
- 17 Offshore terminals (CBM/SPM/FSRU)

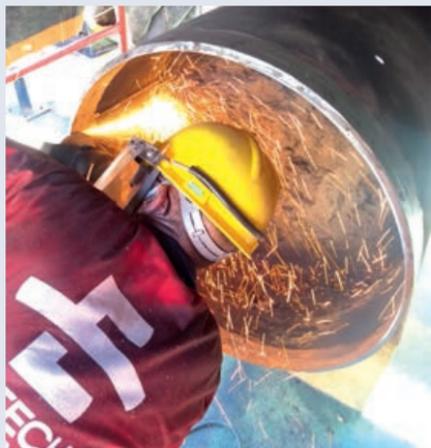
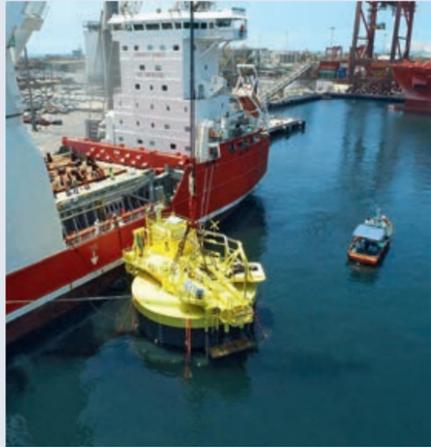
#### Specialist activities

- 13 Landfalls and surface preparation
- 14 Lifting
- 16 Remote subsea works

### UNDERGROUND

#### EPC

- 18 Oil & Gas deep onshore drilling
- 19 Consultancy, engineering, construction management and operation-maintenance of underground storage facilities
- 20 Geothermal drilling and maintenance operations (workover)



# OUR ACTIVITIES

## NEW WORKS

## OPERATION AND MAINTENANCE CROSS-CUTTING LOCAL EXPERTISE

ONSHORE

|   |  |  |
|---|--|--|
| <p>OIL, GAS AND INDUSTRIAL INFRASTRUCTURE</p> | <p>SURFACE STORAGE</p>                 | <p>WASTE TREATMENT AND ENERGY RECOVERY</p>             |
| <p>ONSHORE PIPELINES</p>                      | <p>HORIZONTAL DIRECTIONAL DRILLING</p> | <p>THERMAL POWER GENERATION AND RENEWABLE ENERGIES</p> |

OFFSHORE

|  |                             |
|--|-----------------------------|
| <p>OFFSHORE PIPELINES AND FACILITIES</p> | <p>INTAKES AND OUTFALLS</p> |
|--|-----------------------------|

UNDERGROUND

|  |                       |
|--|-----------------------|
| <p>DEEP DRILLING (OIL &amp; GAS OR GEOTHERMAL)</p> |                       |
| <p>UNDERGROUND STORAGE</p>                         | <p>ENERGY STORAGE</p> |

|   |
|---|
| <p>OPERATION AND MAINTENANCE</p> <p>Pipeline maintenance and repair<br/>Plant start-up and initial operation<br/>Plant turnaround maintenance</p> |
| <p>Hookup and commissioning<br/>Sea-line and outfall maintenance</p>  |
| <p>Well workovers</p>   |
| <p>Underground storage<br/>Operations and maintenance</p>   |

INCLUDES NON-FOSSIL ENERGY

# BESPOKE SOLUTIONS FOR YOUR PROJECTS

Energy recovery unit in North Yorkshire, England



## Your turnkey projects

Leading players in their fields of operation, Entrepose subsidiaries master all the expertise and professional know-how necessary for the creation of onshore, offshore and underground energy infrastructure. The cross-cutting nature of our business approach enables us to offer you turnkey management solutions for your projects, synonymous with optimisation and overall control. The Group's teams operate within the framework of Engineering, Procurement, Construction and Commissioning (EPCC) contracts, regardless of the

complexity of the work and the extreme nature of the environment. Thanks to proven project management experience acquired across the globe over many years, our teams demonstrate their operational excellence throughout the entire project.

## A leader in specialist activities

In addition to its ability to approach each project globally, Entrepose takes advantage of the expertise of each subsidiary to meet the requirements of specialist projects: underground storage for Geostock, horizontal directional drilling for HDI or vertical drilling for Entrepose Drilling.

## Cross-cutting integrated offers

Whenever possible, Entrepose favours synergy between its different subsidiaries and their business lines to offer its clients integrated solutions that draw on the entire range of the Group's expertise. This extends to and includes civil engineering and maintenance in partnership with other subsidiaries of the VINCI group. This approach allows us to optimise project execution, thanks to an overall view of project management reducing the number of interfaces. In this way, clients benefit from solutions that are more flexible and straightforward.



Jurong Rock Caverns underground storage, Singapore

# INNOVATION FOR ENERGY PERFORMANCE



Full containment cryogenic tanks at Yamal LNG, Russia

## Accompanying the changes within the industry

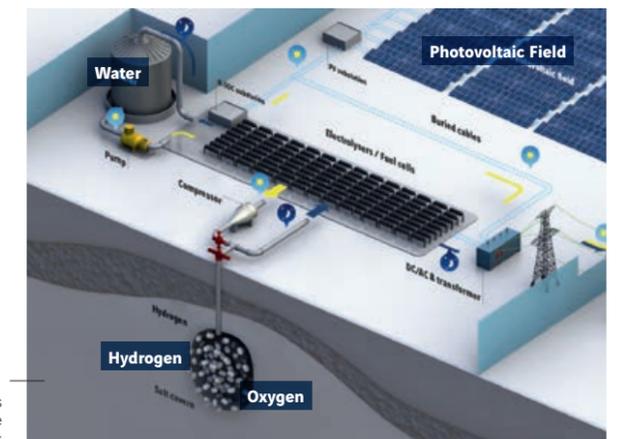
At the heart of current geopolitical issues, the energy industry must continuously adapt to keep pace with new expectations in terms of energy performance and economy. A committed partner for its clients, Entrepose has made innovation one of the pillars of its development. The recognised expertise of our teams enables us to envision original solutions to our clients' challenges, which are more competitive while being perfectly adapted to the reality of their activity.

## A shared approach to R&D

As member of the VINCI group, we actively take part in the R&D process initiated by the construction division of our parent company. This practice of sharing aims to leverage joint intelligence to create added value for our clients.

## A charter to formalise our commitments

Entrepose has made the fundamentals of its innovative approach towards the energy sector official in a dedicated charter. From the deployment of continuous technical and technological monitoring to the creation of value through the culture of innovation with our teams, our approach to research and development is based on both long-term vision and the determination to offer innovative and rapidly-deployable solutions to meet our clients' urgent needs.



Entrepose develops underground carbon-free energy storage solutions

# EXPERTISE DEPLOYED ON ALL CONTINENTS

Heavy lifting operation at  
Oben gas processing plant, Nigeria



## Sustainable establishments through the Entrepose International Network

A worldwide reference for the energy value chain, Entrepose sustainably develops its local presence thanks to its subsidiaries and the projects it carries out. The Group's approach aligns with its desire to create sustainable activity and to build close ties with its clients and the communities in which it operates.

Entrepose has fashioned itself from entities with complementary expertise and through experience in different sectors. The subsidiaries that compose its main lines of business form internationally-recognised brands. They take charge of the largest projects, from design to construction, including procurement and the manufacture of equipment. Some of them also carry out commissioning and, if necessary, maintenance of the installations.

Other entities of the Group are linked to a territory. With the exception of special cases where they depend on a single brand that they represent in a specific region, they belong to Entrepose International Network (EIN). This is our network of cross-cutting geographical subsidiaries. Its role is to support and develop the local activity of historical subsidiaries in Algeria or Nigeria and new subsidiaries, such as Intech in Brazil. EIN thus strengthens the synergies between the various brands, to offer clients our full expertise worldwide.



Maintenance work  
performed by Intech, Brazil

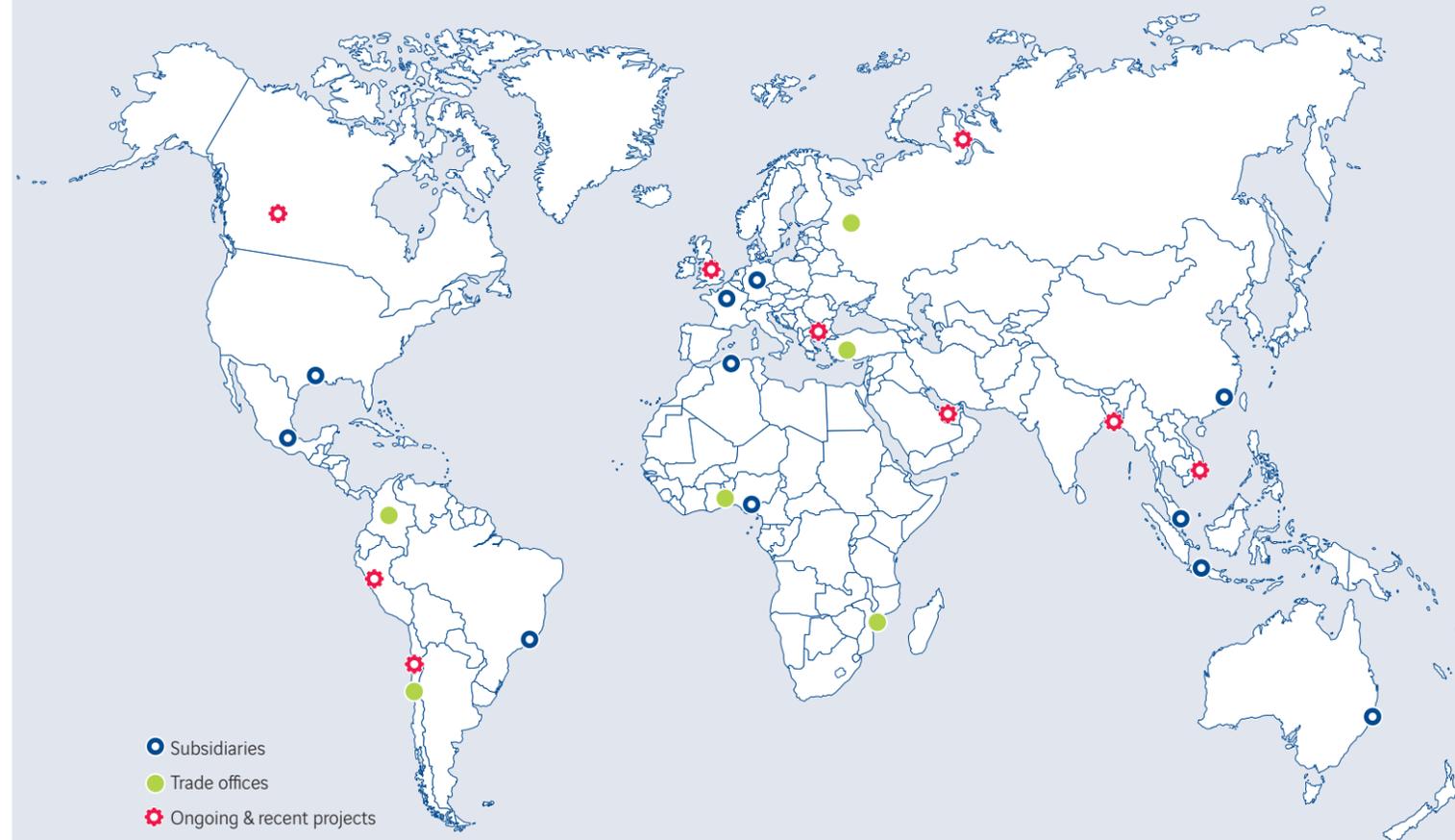
## Close to local communities

Present and active in almost thirty countries through permanent facilities or operations, over the years Entrepose has conducted large-scale projects in more than 60 countries on all continents. This unique experience is based on a true local approach not only with our clients, but also with our suppliers and the communities in which we operate.



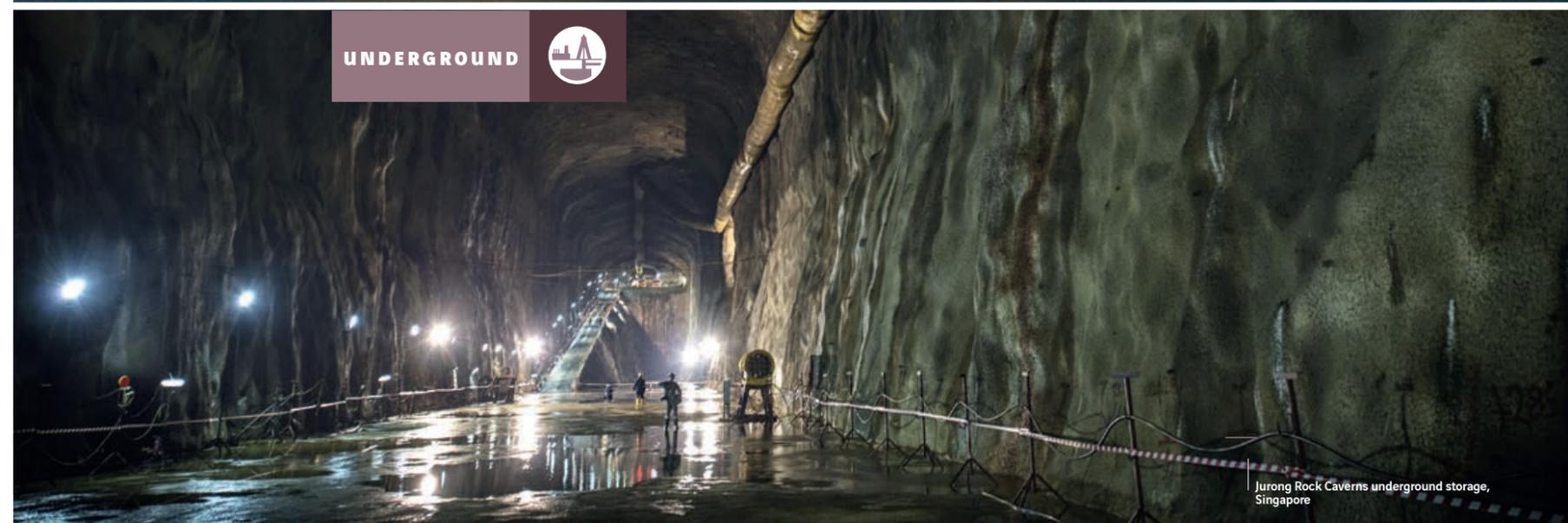
Biodiversity awareness operation  
during the Shalapa project, Mexico

## International presence and partnerships



# EXPERTISE IN 3 SECTORS OF ACTIVITY SERVING ENERGY DEVELOPMENT

ENTREPOSE'S EXPERTISE, COVERING THREE MAJOR SECTORS OF ACTIVITY, IS EXPRESSED IN FIVE BUSINESS LINES AND EMBODIED BY SPECIALISTS WHO ARE INTERNATIONALLY RENOWNED FOR THEIR UNIQUE EXPERTISE.



# EXPERTS IN GAS, OIL AND INDUSTRIAL ENGINEERING INFRASTRUCTURE

THROUGH ENTREPOSE CONTRACTING, THE GROUP IS A MAJOR PLAYER FOR ONSHORE PRODUCTION, TREATMENT, STORAGE AND TRANSPORT INFRASTRUCTURE IN THE ENERGY SECTOR. WE OPERATE INTERNATIONALLY ON THE MOST COMPLEX AND AMBITIOUS PROJECTS.

## OURS FIELDS OF EXPERTISE

- › Storage infrastructure for liquefied natural gas (LNG), liquefied petroleum gas (LPG), condensates, other liquefied gases
- › Hydrocarbon production, treatment, storage and transport facilities
- › Compression and pumping stations
- › Electric power plants
- › Maintenance operations
- › FSRU and complex jetties
- › Micro-refineries
- › Surface installations for underground storage

## Your turnkey projects

Our commitment is to perform your turnkey projects from pre-project engineering to installation and commissioning, as well as maintenance. We operate worldwide in the energy sector, in synergy with the Entrepose and VINCI Group networks to fully meet your needs.

Where required, Entrepose Contracting can also provide assistance in the search for funding at an early stage in any project.

## Global support

The company provides its clients with a portfolio of specialist skills: complex project management capability, in-house engineering and design, supported by the contributions and expertise of Entrepose IKL in Asia, supply chain management, specialised equipment manufacturing (roof sections, risers, storage spheres, etc.) using the expertise of Entrepose Industries in Dunkirk (France), construction and commissioning operations drawing on the experience of its projects teams.

Entrepose Contracting's ability to manage projects and all corresponding interfaces, regardless of complexity, scale and on-site constraints, has enabled the company to conclude prestigious contracts on every continent and at every latitude.

Entrepose Contracting delivered 4 cryogenic tanks to the Yamal LNG project in Siberia, Russia



## + OUR ASSETS

- An integrated design office
- International presence and experience
- Project teams that are accustomed to highly complex situations
- Cross-cutting synergy and extended services that are specific to the Entrepose network



Water pumping station, Qatar



Entrepose mobilised the expertise of several of its subsidiaries for the gas underground storage plant project in Shalapa, Mexico



Entrepose Industries, specialist in heavy boilerworks (spheres, bullets, etc.)

# AT THE HEART OF ENERGY RECOVERY

THE GROUP OPERATES FOR THE TURNKEY ENGINEERING, DESIGN AND CONSTRUCTION OF ENERGY RECOVERY PLANTS FOR DOMESTIC OR INDUSTRIAL WASTE (THERMAL ENERGY, ELECTRICAL ENERGY OR COMBINED) AND RENEWABLE ENERGY PRODUCTION UNITS, PARTICULARLY BY METHANATION (BIOGAS).

## OUR FIELDS OF EXPERTISE

- › Waste processing and recovery
- › Material and organic recovery (mechanical biological treatment)
- › Energy recovery (electricity and/or heat production)

### Optimal technological integration

Through VINCI Environnement, we develop integrated technologies in production units as well as an exclusive range of flue gas treatment processes to reduce the pollutants produced by combustion (treatment of acid pollutants, dioxins and furans, heavy metals, reduction of nitrogen oxides, filtration).

### A unique multi-process approach

The unrivalled expertise of VINCI Environnement as a turnkey contractor is based on over 50 years of expertise and more than one hundred installations in France and in the world. Our multi-process approach to waste treatment enables us to create true added value for our clients by combining organic and thermal recovery and compliance with environmental standards.

VINCI Environnement revamped the energy recovery unit in Charleroi, Belgium

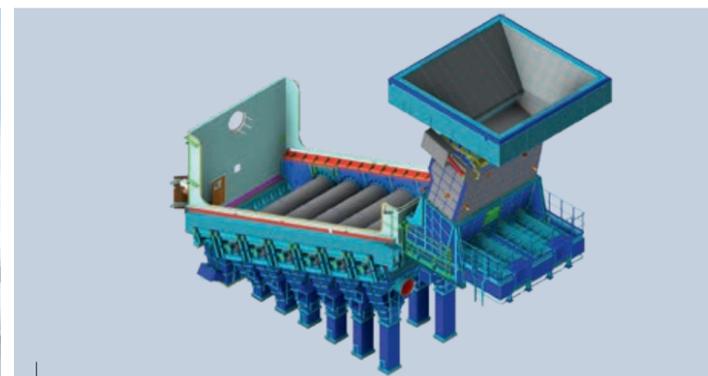


## + OUR ASSETS

- Rotary kiln, stepped grate, roller grate, water-cooled grate (energy recovery)
- Kompogas® process: recovery of the fermentable fraction of household, green and organic waste (methanation). This process is exploited in France under the exclusive licence of VINCI Environnement
- Electrostatic precipitators and fabric filters; scrubbers, cooling towers and semi-wet reactors; catalytic reactors (flue gas treatment)
- Automatic composting with forced aeration, Entrepose tunnel composting process



Digester



3D model of a roller grate



Waste combustion in Cornwall County, United Kingdom



# COMPLEX ONSHORE PIPELINE PROJECTS

WITH BOTH SPIECAPAG AND HDI, THE GROUP IS THE SPECIALIST IN ONSHORE PIPELINE PROJECTS AND ASSOCIATED STRUCTURES – PUMPING, COMPRESSION AND METERING STATIONS, REGULATION AND STORAGE FACILITIES – AS WELL AS HORIZONTAL DIRECTIONAL DRILLING.

## OUR FIELDS OF EXPERTISE

- › Construction of onshore pipelines and associated infrastructure (compression, pumping and metering stations)
- › Construction of hydrocarbon storage facilities
- › Water supply networks
- › Installation of pipelines under existing structures
- › Construction of hydrocarbon storage facilities
- › by directional drilling for electrical and hydraulic installations, hydrocarbon transport, communications networks, and landfall and outfall facilities

### Nearly a century of recognised expertise in pipeline construction

With over 60,000 kilometres of pipeline laid on all continents, Spiecapag benefits from unrivalled experience in the management of complex projects, both from a technical point of view (very large diameters) and project execution conditions in sensitive environments like deserts, Arctic regions, tropical forests, etc.

From project design to the construction of pipelines, not to mention the search for financing, engineering, procurement, commissioning, operation and maintenance, Entrepouse is involved at every step of your project. Our fleet of equipment, which has no equivalent on the market, enables us to respond in record time to any request, anywhere in the world.

### Expertise in horizontal directional drilling

The recognised expert in laying pipelines under natural or artificial obstacles (watercourses, railways, motorways, coastal zones, etc.), our subsidiary HDI have already completed over 2,000 crossings without requiring trenching, thanks to the horizontal directional drilling method (HDD). This method is also applied to the landfall sections of offshore pipelines.

Construction operations conducted by Spiecapag for the Trans-Adriatic Pipeline project, Greece



## OUR ASSETS

- Recognised expertise in the management of complex projects
- Presence on all continents
- An unrivalled fleet of equipment that can be rapidly mobilised anywhere in the world



Pipeline construction on the Val de Saône project, France



Landfall installation by horizontal directional drilling, Morocco



HDI completed the 1,820 metre crossing of the Axios river for the Trans-Adriatic Pipeline project, Greece

# SHALLOW WATER OPERATIONS

FOR OVER 30 YEARS, THE GROUP HAS OPERATED IN HIGHLY DIVERSE CLIMATIC AND LOGISTICAL CONDITIONS TO CONSTRUCT OFFSHORE FACILITIES FOR POWER STATIONS, DESALINATION PLANTS AND WATER TREATMENT PLANTS.

## OUR FIELDS OF EXPERTISE

- › Design and turnkey construction of offshore and coastal works (submarine pipelines, import/export terminals, moorings, wharfs and jetties)
- › Specialised works: trenching for submarine pipelines, pipeline landfalls, other specialised works

## EPCI and specialised works

Through Geoclean, the Group delivers turnkey projects under EPCI (Engineering, Procurement, Construction, Installation) or works contracts for the oil and gas, mining and chemical industries, as well as on the public works market. It builds coastal structural works for power stations, desalination plants and water treatment plants. Geoclean stands out from its competitors through its ability to work on landfalls in shallow-water zones, where it uses its line of specialised equipment developed in-house.

Geoclean owns and operates a fleet of marine assets, and has performed turnkey pipelaying operations and oil platform installations. Among its fleet, Geoclean counts a pipelay barge dedicated to offshore oil and gas works, the Geoclean Protis, equipped with a 500-tonne crane and S-lay systems.

## Innovative ranges of equipment

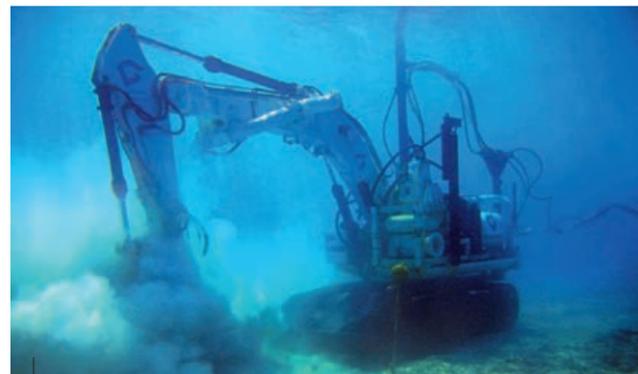
Geoclean develops its own ranges of specialised and innovative equipment for quality pipeline landfalls or specific operations in shallow water zones. We also possess unique know-how in renewable marine energy, notably by installing water intakes at great depths (-1,000 m) for Sea Water Air Conditioning systems. Geoclean devotes significant resources to innovation and to the development of specialised equipment, so that it can offer original and economical solutions to its clients.

Topside installation on the Sèmè Kraké project, Benin



## + OUR ASSETS

- 2 construction barges (Protis and Yagana)
- Abyss remotely-operated submarine excavator
- MAX and Super MAX pipeline trenching excavators / Masurca trenching system



Abyss submarine excavator



MAX & Super MAX excavators



Installation of fixed infrastructure on FSRU

# A MAJOR PLAYER FOR UNDERGROUND WORKS

THE GROUP IS A LEADING PLAYER FOR THE UNDERGROUND STORAGE OF LIQUID, LIQUEFIED AND GASEOUS HYDROCARBONS, AND OPERATION OF THE ASSOCIATED SURFACE PROCESSES AND FACILITIES THROUGH GEOSTOCK. IN ADDITION, WITH ENTREPOSE DRILLING, IT MASTERS DEEP DRILLING METHODS.

## OUR FIELDS OF EXPERTISE

- › Underground storage of liquid, liquefied or gaseous hydrocarbons, compressed air, hydrogen, carbon dioxide (CO<sub>2</sub>) or effluents in salt caverns, mined caverns and porous reservoirs like aquifers or depleted oil or gas fields
- › Oil and gas drilling, geothermal energy, workover operations and well workover
- › High-, medium- and low-enthalpy geothermal drilling, geothermal doublets to supply heat networks

### For reliable and safe storage

Geostock offers underground solutions to store all types of products: liquid, liquefied or gaseous hydrocarbons, but also effluents, CO<sub>2</sub>, compressed air and hydrogen. We develop innovative solutions to improve the safety, reliability and performance of underground storage and respond to new markets for carbon-free energy storage.

With over 50 years of experience in the underground storage sector, Geostock has developed an offer that ranges from consultancy and engineering to the supervision of construction and operation-maintenance within the framework of long-term contracts. We mobilise a wide range of cross-cutting skills in order to respond to the complex challenges of our clients – both for underground facilities (earth sciences, civil engineering, drilling, solution mining, tests and measurements) as well as for surface facilities (process and mechanical engineering, automation, electricity, control systems, etc.).

### Deep drilling

Specialists in drilling, maintenance, well workover and abandonment services for the oil, gas and mining sectors, as well as for geothermal energy, Entrepose Drilling has unique expertise in operating conventional onshore rigs and modern, automated hydraulic rigs, which affords great flexibility to our clients.

Supervision of underground storage by Geostock in Ningbo, China



### + OUR ASSETS

- A global offer throughout the full storage life cycle
- Two-pronged expertise: engineering and operation
- All underground storage techniques for all products



Control room of an underground storage facility



Geostock operates the Geogaz storage facility in France



High-enthalpy geothermal drilling operations

# A RESPONSIBLE AND COMMITTED GROUP



The employees are the Group's main asset. They are the basis for the complementarity of its businesses and its ability to deploy expertise globally.

REGARDLESS OF THEIR SPECIALIST SECTORS OR GEOGRAPHIC LOCATION, ALL ENTREPOSE TEAMS SHARE COMMON VALUES AND EXEMPLARY GOALS IN ALL THE COMPANY'S AREAS OF RESPONSIBILITY. THESE ARE THE FUNDAMENTALS OF A COLLECTIVE CULTURE WHOSE PRIMARY VALUE IS SAFETY.

## SAFETY: the "zero accidents" goal

Implemented by the network of HSE managers under the authority of the General Management team, the Entrepose safety policy aims for "zero accidents" at Group level. This determination is embodied by both the "Safety, I Care!" plan (whose logo identifies all the Group's safety actions) and by specific initiatives that encourage fellow employees to make a personal commitment to safety (Alive on Site). High points like the "Health, Safety and Environment Challenge" and VINCI Construction's International Safety Week set the pace, while a wide diversity of initiatives in the field raise employee awareness with support from management. "Prestart Meetings", information days, contests, etc. are all examples. In addition, we provide employees with tools that facilitate reporting hazardous situations (observation cards, smartphone applications).



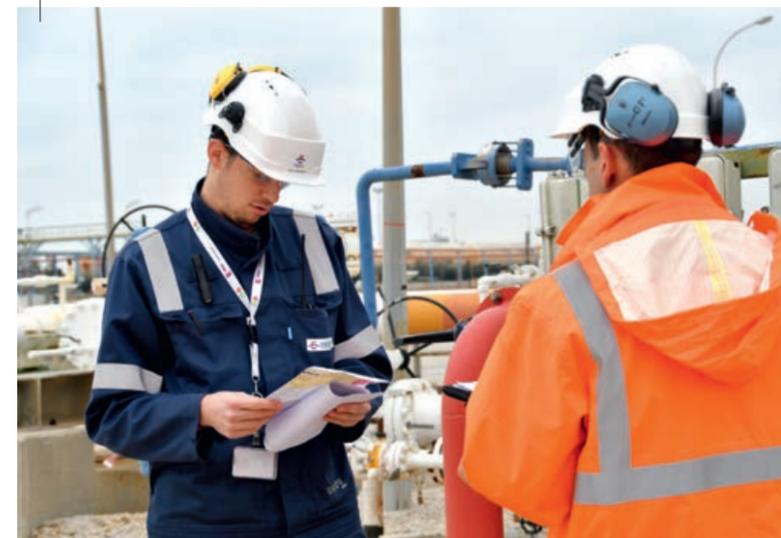
## RECRUITMENT: priority given to local human resources

Entrepose recruits and trains teams locally or calls on local subcontractors for all its projects. For these operators, participation in Entrepose projects most frequently results in the acquisition of new skills or a qualification that opens up new professional horizons for them. Furthermore, employees of Entrepose subsidiaries are primarily locals.

## QUALITY: towards an integrated management system

Quality is an essential component of Entrepose and all of our entities are ISO 9001-certified. The risk management and control associated with our activities are integrated into every phase. Our priorities are improving quality, sharing best practices and integrating the management system at the Group level.

HSE visits and inspections are methodically organised at all our sites and projects



Almost half the women employed by Entrepose are managers



Land reclamation and revegetation operations on the Trans Adriatic Pipeline project, Albania



Entrepose de México employees provide their support to the Red Cross



**ENVIRONMENT:**  
controlling and reducing  
the impact of our activity

Regardless of the project, Entrepose designs and implements solutions that strive to respect the environment and ecosystems of the sites. All our subsidiaries execute their missions in strict compliance with ISO 14001. Through our Corporate Social Responsibility Charter, we are committed to controlling the impact of our activities on the environment and search for the greatest energy efficiency for the benefit of our clients. In practice, Entrepose’s environmental approach is embodied by the systematic search for added value in its offers, which motivates and undergirds our research and innovation efforts.

**ETHICS:**  
respect for collective  
and societal values

The Entrepose group has long been mobilised around this concern and has published and distributed several reference guidelines to its employees. It continues training and awareness-raising activities in order to prepare for the certification of its anti-corruption management system, which will comply with the future ISO standard. These initiatives, combined with the continued involvement of general management, have broadened and enriched our collective awareness and illustrate the strong ethics culture taking hold at the heart of all Group activities. Furthermore, in compliance with the legal requirements of the Sapin II Law in France, the Group’s compliance program has also been strengthened, systematising the due diligence and risk assessment linked to third parties.



Entrepose strives to preserve and reintroduce animal and plant species at all its project sites, as on Shalapa project, Mexico



Entrepose Group  
165, boulevard de Valmy – 92700 Colombes, France  
Tel: +33 (0)1 57 60 93 00 – Fax: +33 (0)1 57 60 93 01  
[www.entrepose.com](http://www.entrepose.com)

together @ VINCI 