

MARINE INTAKE & OUTFALL

"Tailor Made Marine Pipeline Solutions"

Who we are: 

Geocean is an EPCI contractor specialized in Marine & Offshore works. We develop turnkey projects worldwide under all types of environmental and site conditions, for a large range of domains and clients:

- Pipeline & offshore oil terminals (SPM / CBM)
- LNG offshore terminals (FSRU)
- Marine intake & outfall systems (Power, Desalinization and Water treatment)
- SWAC (Sea Water Conditioning)
- OFW (Offshore Floating Wind)

Safety First 

GEOCEAN complies with the highest standard of Health, Safety, Quality and Environment performance for all its projects. All means are put forward to protect the health and safety of all stakeholders.

Sustainability 

We strive to contribute to the socio-economic development of the territories and countries where we operate. This could take the form of local job creation, procurement or community investment.

We are deeply committed to enhance the positive impact of our projects and preserve the environment.



THE INFRASTRUCTURES WE DELIVER

Marine Intake & Outfall Systems

Intake & Outfall pipelines

- HDPE & GRP pipes
- Small and large diameters
- Extruded long lengths or welded short sections
- Pipeline stabilization systems
- Piggings system

Intake towers

- Materials: Concrete, Steel or GRP
- Install by crane or float & tow

Diffusers

- Single or multi-ports
- Tailor-made end fittings
- Anti-trawling protections

Shore crossing methods

- Trenching
- Cofferdam
- Micro-tunneling
- Horizontal Directional Drilling

Marine Intake & Outfall Industry Sectors

Water Treatment

- WWTP outfall (ocean, river, lake...)
- Intake & outfall for WTP

Desalination

- Seawater intake pipelines & towers
- Brine discharge pipelines & diffusers

Power

- Cooling water intake pipelines & towers
- Water discharge pipelines & diffusers

Mining

- Ore treatment plant outfall
- Deep Sea Tailing Placement (DSTP)

WHY CHOOSE US?

Feasibility study

ENGAGING EARLY TO DELIVER HIGHER VALUE

We create value for our clients in the earliest stages of project development, lowering costs and streamlining schedules.

Earlier engagement at the beginning of the development lifecycle allows us to support our clients to overcome technical and economic challenges. We cover every stage of a project's development:

- Concept selection
- Basic design & Pre-feed
- Management of soil investigation (Geotechnical and Geophysical survey)
- Route definition
- Economical studies

Operation

PROVIDING CONTINUED SUPPORT

Maintain & operate

We assist our clients in the set up of their terminal maintenance plan. We have learned to manage complexity, mitigate risks and simplify execution to achieve optimal and reliable solutions.

Track Records

PROVEN EXPERIENCE

Since 1984 we have successfully designed and installed marine intake & outfall pipelines for private and state-owned clients all around the world.

EPCI execution

OFFERING FULL TURNKEY PACKAGE

Detailed engineering

Simply put, we tackle the challenges of our clients. We design tailor made offshore terminal solutions. Throughout the design process, we analyze each decision and its impact on every aspect of the project. We bring solutions that lower the project risks and costs, reduce the number of interfaces and optimise schedules.

Procure and Fabricate

We provide efficient procurement and high-quality fabrication which we deliver on time. We only select recognized vendors with proven track records. We proactively manage supply chain as a key factor to meet the project's schedule with a focus on a very high standard Quality control.

Installation

We always perform safe, on-schedule and cost-efficient installations using world-class vessels and teams.

We are able to deploy everywhere, to adapt the installation means and the methods to the project requirements and to the environment.

TRACK RECORDS



CASABLANCA OCEAN OUTFALL

CLIENT

LYDEC

SITE

SIDI BERNOUSSI / MORROCO

PROJECT DESCRIPTION

WWTP Outfall

CONTRACT TYPE

EPCI

SCOPE

Ocean outfall pipeline:

- 1 x 2257m OD2300mm pipeline**
- 1057m by Microtunnel
- 1200m HDPE pipeline SDR26
- Multiports HDPE diffuser
- Sand dredging 150 000 m³
- Rock blasting & excavation: 10 000 m³
- Subsea spool pieces
- Anti trawling blocks
- Marker buoys



GORO OUTFALL

VALE

GORO MINE / NEW CALEDONIA

Mining Outfall

T&I

Marine outfall pipeline:

- 1 x 21,000m OD800mm pipeline**
- HDPE OD800 mm
- Welding of 42 strings of 500m
- PLEM and spool pieces
- String connections by DP2 vessel
- HDPE diffuser boring by ROV
- Trenching/backfilling nearshore
- Max water depth 60m



TERGA POWER PLANT

SONELGAZ / ORASCOM

TERGA / ALGERIA

Seawater Cooling Intakes

EPCI

Cooling water intake system:

- 5 x 750m OD2000mm pipelines**
- 5 x HDPE SDR26 intake lines
- 5x steel intake towers
- Trenching in sand & rock 250 000 m³
- Chlorination system for each line
- Trench backfilling
- Marker buoys
- Piging system

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