Lykomitros steel S.A

Introduction

LYKOMITROS STEEL S.A.

Company Focus

High-quality standards, focused health and safety attitude and our agility to react to our Clients requirements effectively, is what we pride ourselves for and is at the core of the 'boutique' customer service experience that we offer.

Our Mission

We set out to continuously enhance our staff knowhow and attitude towards HSE, to adapt our facilities with new technology so that we are capable to serve the Renewables market efficiently for a greener future.



Our Vision

Wind energy is at the forefront of the fight against climate change. We are a modern and agile company that aims to produce carbon neutral foundations in the safest and most efficient way whilst maintaining the utmost respect towards our people and the environment that we all live in.

Our Facilities

LYKOMITROS STEEL S.A.





STATE OF THE ART PRODUCTION FACILITIES UNCOVERED AREA 400,000 m² • COVERED AREA 50,000 m²

Company Timeline

LYKOMITROS STEEL S.A.

Our past has served us well...



Our future is green!

Key Targets - Next 5 Years

LYKOMITROS STEEL S.A.

Strategic alliances for developments in Med. region

Investment in green energy production

Strategic Acquisitions of Quayside facilities

880



Ramp Up Capacity for Production of Monopiles and Floaters

Company Certifications



Markets Served

LYKOMITROS STEEL S.A.

Pin Piles Casings Monopiles Transition Pieces Tower Sections Floaters



Lykomitros has heavily invested in state-of-the-art facilities and has established serial production lines for rolled foundations such as Monopiles, Pin Piles, Casings and Transition Pieces. Services include:

- 1. Procurement of heavy plates
- 2. Fabrication, coating of foundations (primary and secondary steel)
- 3. Assembly and integration of ancillary equipment / systems
- 4. Commissioning & certification
- 5. Transportation and Loadout at the Port of Volos :
 - In-House 650 Ton capacity modular trailers
 - In-House heavy lift trollies with 300 Tons capacity
- 6. Project Management and Quality Assurance across all works





Products and Capabilities





and the second	PILE FOUNDATIONS	XXL MONOPILES	CONICAL SECTIONS			
Min. Outer Dia. (m)	1.1	1.1	2			
Max. Outer Dia. (m)	12	12	15			
Min. Section Length. (m)	1	1	2			
Max. Weight (Metric ton)	1,500	3,000	1,000			
Wall Thickness (mm)	230	230	230			
Production Rate (tonnes / year)	100,000	100,000	100,000			
Compliance Standards	EN - DNV - ASTM					
Steel Grade	Up to S690					



NEW Investment 2023-2024

LYKOMITROS STEEL S.A.



HORIZONTAL FLANGE FITTING STATION - PEMA HFF

Our new PEMA Horizontal Flange Fitting station (PEMA HFF), enables fast, safe and accurate fit-up of the flange to the shell. The flange is placed in a horizontal position while the shell is firmly supported by the anti-creep roller beds. The FF station is flexible enough to handle many different variations of flange designs.

New Modern Equipment

- New Automated Welding Platforms for 8 Assembly lines
- Rolling Machine Variable Axis DAVI "MAV Z42" Max. Plate Dimensions : 4200 mm
- Automatic Welding Machine for joining plates for big diameter
- Milling Machine for Circumfercial Welding
- New Welding Rollers 500tns



Offshore Wind Farm Projects List

PROJECT IDENTIFICATION			SCOPE OF WORK			PROJECT PERFORMANCE INFORMATION			
Year of Project Start	Project [Name]	Client	Short description of SOW	List the Disciplines within the SOW	Type of construction	Project Main Fabrication Standard(s)	Pieces	Project Weight [tons]	Structure Main Dimensions [diameter x length x thickness]
2019	Neart na Gaoithe OWF	Saipem Ltd	FABRICATION OF 6 ACTIVE PASSIVE TOWERS	ENGINEERING 3D MODEL ,MACHINING ASSEMBLY ,LOAD OUT	Active Passive Towers Platforms ,Secondary Steel	DNV-OS-C401	6	500	7,8m Diameter * 8m * 30mm
2020	Neart na Gaoithe OWF	Saipem Ltd	FABRICATION OF CASINGS	ENGINEERING 3D MODEL ,MACHINING ASSEMBLY ,LOAD OUT	CASINGS	DNV-OS-C401 Norsok M501	180	10000	3,1m Diameter * 18m * 50mm
2021	Neart na Gaoithe OWF	Saipem Ltd	FABRICATION OF 120PILES	ENGINEERING 3D MODEL ,MACHINING ASSEMBLY ,Painting LOAD OUT	Piles	DNV-OS-C401 Norsok M501	120	30000	2,7m Diameter * 55m * 140mm
2021	Courseulles -sur-Mer OWF	Saipem Ltd	FABRICATION OF CASINGS	ENGINEERING 3D MODEL ,MACHINING ASSEMBLY ,Painting LOAD OUT	CASINGS	DNV-OS-C401 Norsok M501	64	7000	9,5m Diameter * 14m * 50mm
2022	Courseulles -sur- Mer OWF	Smulders - EFGL	UMB, LMB & truss braces fabrication	ENGINEERING 3D MODEL ,MACHINING ASSEMBLY ,Painting LOAD OUT	UMB, LMB & truss braces	BV NR 216, BV NR 426	3	1900	2,2m Diameter * 56m * 60/50mm
2023		Van Oord	Fabrication Of Monopiles	ENGINEERING 3D MODEL ,MACHINING ASSEMBLY ,Painting LOAD OUT	Monopiles	ISO 15614	10	6000	80 m.

Subsea Drilling Templates

LYKOMITROS STEEL S.A.



ject: Neart Na Goithe (NNG) Offshore Windfarm

ocation: NNG Offshore Windfarm, Scotland, U.K.

Quantity: 6 No. Towers – Total weight: 360 Tons

Scope Of Works:

- Fabrication & Coating of 6 No. Subsea Template Towers
- Secondary steel (platforms, railings, gratings) fabrication & assembly of 6 Towers
- Machining and mechanical treatment of ancillary components
- Hydraulic system pre-integration works for offshore assembly of drilling template







Casing Foundations



- Quantity: 168 Casing Foundations
- **Scope Of Works:** Fabrication & Coating of 168 No. Casing Foundations - Transportation and loading support <u>– Port of Volos</u>







Pin Piles









Casing Foundations

LYKOMITROS STEEL S.A.

SAIPEM France Diameter: 10 m. Htty: 64 OWF Casing Foundations

Courseulles sur Mer Offshore Windfarm Courseulles sur Mer







Jacket Tubulars & Cargo Burges



3 Floating Foundations – Truss Members

LYKOMITROS STEEL S.A.

 Client:
 EIFFAGE S.A.

 Project:
 Eoliennes Flottantes du Golfe du Lion (EFGL)

 Location:
 Mediterranean Sea, Southern France

 Quantity:
 3 Floating Foundations – Truss Members

 Scope Of Works:
 1. Fabrication of all Truss Members for the Principle Power Foundations

- 2. TKY Joint Assembly for Lower Member Braces
- 3. Loadout & Transportation to Fos-sur-Mer in France



3 Floating Foundations – Truss Members



Monopiles



Monopiles

LYKOMITROS STEEL S.A.

Load Out - September 2023

Installation - November 2023

Ongoing Offshore Project for 2024 - 2025

RWE - THOR Offshore Wind Farm Project

Supply, electrical outfitting and commissioning of Secondary Structures for **Monopile**, including:

- External Access Systems (EAS)
- Internal cassette
- Impressed Current Cathodic Protection (ICCP)
- Boatlandings

Planned capacity 1 GW +

Green energy to one million Danish households

LYKOMITROS STEEL S.A.

Denmark Danish North Sea

54 No. 66kV Cable Routing Support Cage

LYKOMITROS STEEL S.A.

ject: Neart Na Goithe (NNG) Offshore Windfarm

Location: NNG Offshore Windfarm, Scotland, U.K.

Quantity: 54 No. 66kV Cable Routing Support Cage

Scope Of Works:

- Design Calculations, 3D Modelling and Drawings Package
- Supply of mechano-like members to offer max. flexibility during cable pull activities
- Fabrication of members and assembly in mock-up trials.
- Packaging for partial assembly and completion offshore post-cable pulling operations

Off Shore Platform Rig Up for BENTEC & Nobel Oil-SOCAR, Azerbaijan LYKOMITROS STEEL S.A.

Off Shore Platform Rig Up

Oil & Gas Project: BENTEC

Mock up, installation in Lykomitros Steel S.A. facilities

Oil & Gas Project: BENTEC

Mock up installation in Lykomitros Steel S.A. facilities

Customer Satisfaction

LYKOMITROS STEEL S.A.

To whom it may concern Letter of recommendation

This is to confirm that the company Lykomitros Steel S.A. is a supplier of MYTILINEOS S.A. - Group of Companies for the fabrication of steel

More specifically, Lykomitros Steel S.A. and within the below projects, has delivered successfully steel structures as for

- > The fabrication of GT Building, platforms and pipe racks with total weight of 2.700ths for the DEIR ALI II - Combined Cycle Power Plant project in Syria.
- > The fabrication of GT Building, platforms and pipe racks with total weight 2.300tns for the HASSI R'MELL I - Open Cycle Power Plant project in Algeria.
- > The fabrication of ST Building, Water Treatment Building, Feedwater Building, Switchyard Structures Workshop & Storage Building, platforms and pipe racks with total weight 1.500ths for the Amandi Combined Cycle Power Plant project in Takoradi, Ghana
- > The fabrication of the Air Ducts and the heating lances made of 1.4835 inox material and Pulverized Fuel Ducts with hardfaced materials as well as the dampers and other mechanical components of approximately 1.000tns for the project of Ag. Dimitrios SES, Unit I&II: Boilers retrofit for NOx reduction with primary measures

We are pleased to recommend Lykomitros Steel S.A. on the basis of its successful performance.

SUBJECT RECOMMENDATION LETTER

Dear Sit

We, SAIPEH SA, hereby confirm that LYKOM/TROS STEEL SAIs an approved supplie for SAPEM GRIXIP and SAIPEH SA has recently occored 64 off large casings for foundations of COURSEQUEES Wind Farm Project.

UNDETINGS STEEL S5 has prove to be analysis mandatore and period powler and has exacted bit the supply per introduct by their nandatoring stage up to the intery where it the polaritibility of the single respective. The supply stage is the stage of the single stage of the their management bank mice management in staffact way and the state state state state with the single state of the state state state state state state state with the single state state state state state state state we prove the testistion in economic to state state

Yours faithfully.

Salpern Classification - General Use

> Hellascorp

To whom it may concern

This letter recognizes Lykemitros Steel S.A. for their professionalism, support, dedication and timely delivery towards the fabrication and supply of structural steel for the Skouries Project.

The Shouries Project is a new development by Hellas Gold S.A. (a subsidiary of Ilducade Gold Corporation) for the mining of high-grade gold-copper perphycy deposit located in the Balkidiki Peninsula of northern Greece.

For the Skemies Preject lykemitros Steel S.A. fabricated and sumplied anorminately 300 tonnes of structural steel.

The work carried out by Lykamitres Steel S.A. on our project has been of excellent quality and I can recommend their services to others.

Projects Engineering Manager Greece, Hellas Gold/Eldorado Gold

Lykomitros Steel S A Mr. Christos Lykomitros Ano Spartia, Seskio Gr38500 Volcs Greece

From: Sebastian Fietz Phone: +49 (0)59 22 72 681 Fax: +49 (0)59 22 72 527 E-Mail: Sebastian Fietz @bentec.com Date: 26/06/2018

Letter of recommendation

Dear Mr. Lykomitros

Please accept this letter as our personal and professional endorsement of Lykomitros Steel S.A as an outstanding business partner to Bentec GmbH. Bertec is one of the leading manufecturers of drilling rigs and oilfield equipment worldwide based on

Since 2015 they also handle projects with installation of the electric parts, cabling of steel structure construction, installation of lamps and electrical equipment.

We have found a company to be world class in many ways. Their representation has always been fair, courteous and above all, professional in every respect.

Lykomitros Steel S.A partnership with us is exemplary of the model to which we would like all suppliers to aspire

Purchasing & Supply Management

22200 Gronom Regimentation Department of the Dep

more than 125 years history and vast experience tros Steel S.A. is our supplier for steel structure construction.

Bentec GmbH Drilling & Oilfield Systems

Facility 1 - Headquarters

South Facility 18m Under the Hook Crane

LYKOMITROS STEEL S.A.

Facility Configuration for Fabrication of Pin Piles

Facility Configuration for Fabrication of Rolled Sections (Casings) - 10m Diameter

South Facility

South Facilities arrangement plan for Offshore projects

North Facility

The Port of Volos

New Port Facillities

Our Strategy - Monopiles project

LYKOMITROS STEEL S.A.

Assumptions

- It is assumed that monopiles of 12 m Diameter and 120 m length shall be required.
- 2. Our strategy:
- Utilise existing facilities to fabricate cylindrical cans of 12 m Diameter, and 9-10 m high that can be transported easily to port
- Pop-up assembly yard within port to complete structure
- Coating locally over circumferential welds carried out in port based on favourable weather in region
- Storage of Monopiles in port area

Our Plan - Monopiles project

LYKOMITROS STEEL S.A.

Layout

- Items delivered into the port facility will be kept at the Nothern Area
- Cans will be assembled in open air firing lines on rollers to form 2 No. key subassemblies:
 - 1. Bottom (Unpainted section)
 - 2. Middle (Painted section)
- The upper most conical section will be fabricated in its entirety within the company's facilities and delivered to port for final assembly.
- Circumferential joints will be coated as necessary prior to storing the completed monopile

Storage area in green

Loadout zone in purple

Our Plan - Monopiles project

Monopile Loadout

LYKOMITROS STEEL S.A.

Loadout Ops

Par all

- XXL monopiles are anticipated to weigh in excess of 1550 tones each.
- Shore cranes would struggle to loadout such components so SPMTs are the obvious solution.
- Vessels such as these lend themselves well to carry 3 No. XXL monopiles.
- Sarens, Mammoet and Fagioli are partners that would support with such operations and all port movements.

Port Area – Key Dimensions To Appreciate Scale

Suggested Fabrication Arrangement for Floating Offshore Platforms

Suggested Fabrication Arrangement 2 No. Floating Offshore Platforms LYKOMITROS STEEL S.A.

Loadout Assessment

Ready for Sailaway

Departure from Port

Departure from Port

HTV Transit to Float-off Location

ATT T

Schoff

Lykomitros steel S.A

L.V.

Scan the QR code to download the presentation

