



Energomontaż-Północ Gdynia

**Offshore installations – prospective activity and
production precesses of the components
customized for domestic and foreign clients.**

Company history and ownership



Energomontaz-Pólnoc was established in 1953 and at the beginning was significantly involved in mechanical erection of utilities, industrial and municipal power generating stations, modernisations and overhaul works in power plants, production of steel structures, tanks and pipelines.

The turn on 80s and 90s was a time of profound economic and political transformation, that changes the company's face. Energomontaz-Pólnoc Gdynia Ltd. (EPG) expanded the service offer on marine sector, i.e. ports, shipbuilding, ship repairing, as well as on chemical, petrochemical and nuclear industry. Since 2001 we are involved in production for offshore sector.

Energomontaż-Północ Gdynia is a part of
MARS Shipyards & Offshore Group .



Offshore installations – prospective activity



- **Oil and Gas:**
 - Floating drilling and processing units
 - Topsides on foundations
 - Subsea equipment
 - Onshore processing plants
- **Renewable energy:**
 - Wind mills
 - Tidal current turbine
 - Wave power generators
 - Transformers topsides
- **Servicing floating units**



Offshore installations – prospective activity

Oil & gas



- Floating drilling and processing units



Offshore installations – prospective activity

Oil & gas



- Topsides on foundations

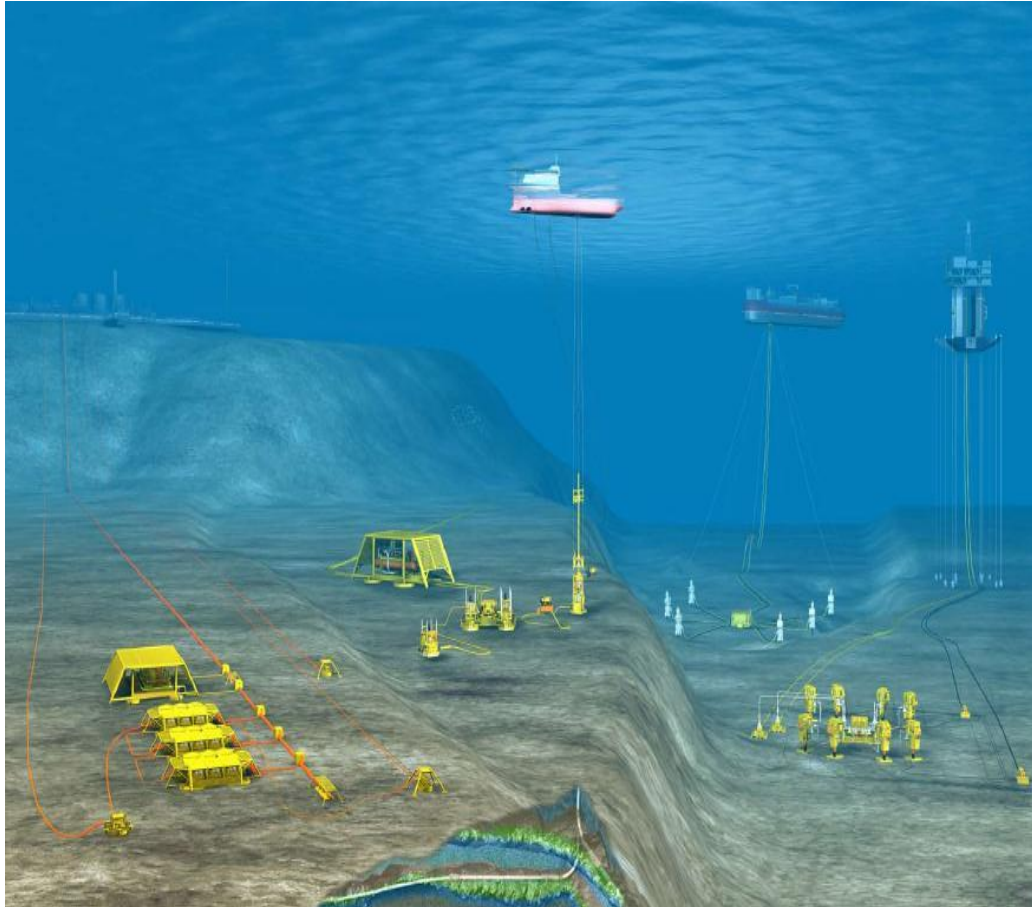


Offshore installations – prospective activity

Oil & gas



- Subsea equipment



Offshore installations – prospective activity

Oil & gas



- Onshore processing plant



Offshore installations – prospective activity

Oil & gas



- Servicing floating units



Offshore installations – prospective activity

Renewable Energy



- Offshore wind farms



Offshore installations – prospective activity

Renewable Energy



- Offshore wind farms

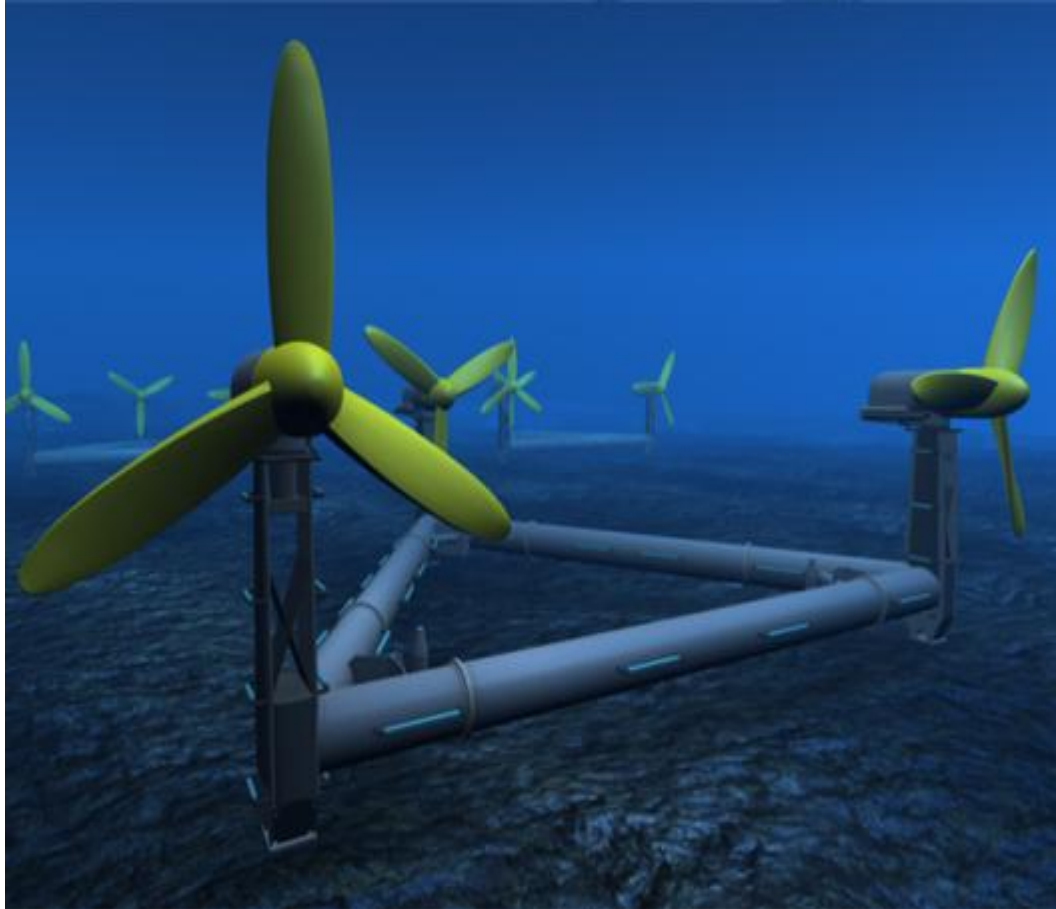


Offshore installations – prospective activity

Renewable Energy



- Tidal & wave



Offshore installations – prospective activity

- Servicing floating units





Energomontaż-Północ Gdynia

**Production processes
of large components for offshore sector
at Energomontaz-Północ Gdynia**

Offshore installations - production processes

Engineering



Energomontaż-Północ Gdynia Ltd. has established its own Engineering Office working under name - EPG Design - located at the same location as EPG Workshop.

Company possess 18 fully equipped design stations, working with following systems:

- Nupas
- Cadmatic
- Nestix
- AutoCAD



Offshore installations - production processes

Workshop fabrication



Fabrication facilities :

- Total production and storage area: 82.000sqm
- Workshop halls area: 10.200 sqm
- Roofed storage area: 3.900 sqm
- Technological line for corrosion protection: 1.800 sqm
- Equipment for processing of plates up to 150 mm,



Offshore installations - production processes

Yard assembly



- Total assembly site area: 43.969 sqm.
- 352 m of the wharf, 9 m of water depth.
- Drydock with the dimensions: 240 x 40 x 8 m.
- Gantry crane with the lifting capacity up to 500 tons, and with the 41 m height up to the hook.
- Shore cranes with the lifting capacity 20 and 80 tons.
- Admissible loads capacity of the assembly yard: up to 50 tons/sqm.
- Capability for on-the-wharf assembly of large size structural blocks with the weight up to 4.000 tons.



Offshore installations - production processes

Load-out



- Cranes with lifting capacities of 80, 40 and 20 tons,
- Floating crane with the lifting capacity up to 300 tons available upon request.
- Gantry crane (passing over the drydock and the assembly yard) with the lifting capacity up to 500 tons,
- Hydraulic skidding onto the transportation barges of structures with the weight up to 4.000 tons.



Offshore installations - production processes

Continuous development and investments



- own engineering office,
- construction of a production hall (abt. 2.400 sqm) inclusive:
 - Installation inside the hall of two gantry cranes with the lifting capacity of 63 tons each (total 126 tons),
 - Installation of a turning and boring lathe FKD 60/ 80Y CNC machining center with the following machining parameters:
 - turning diameter up to 12 m,
 - height of the object up to 5 m,
 - table load capacity up to 120 tons.

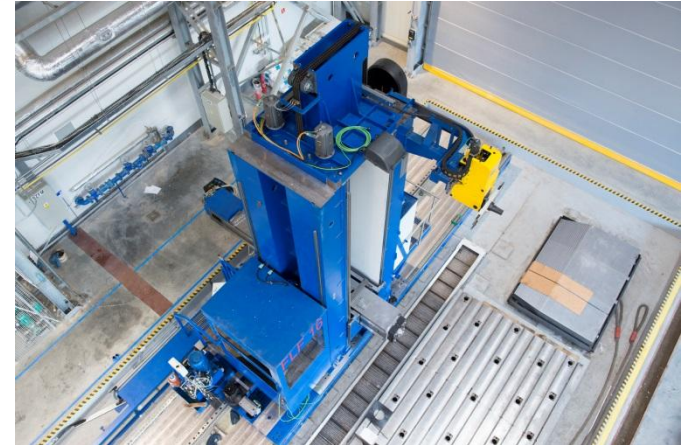


Offshore installations - production processes

Continuous development and investments



- Drilling, boring and milling FLF16 CNC machining center:
 - travel alongside the X axis = 16 m
 - travel alongside the Y axis = 4,5 m
 - travel alongside the Z axis = 2 m
- Rolls for cold rolling of plates with the thickness up to 150 mm,
- High efficiency multiwire welding automates.



Offshore installations – Realizations

Oil & Gas



Large multidisciplinary sections and modules

- Fabrication and assembly of sections and modules for H6e Drilling Rigs Alfa & Beta (presently Aker Spitsbergen and Aker Barents)
- Total weight of steel structures: 4.500 tons



Offshore installations – Realizations

Oil & Gas



Offshore multidisciplinary sections

- Fabrication and assembly of sections for GJOA Semi Platform.
- Total weight of steel structures: 2.700 tons



Offshore installations – Realizations Oil & Gas



Offshore steel sections and nodes

- Fabrication and assembly of steel deck sections and nodes for project EKOFISK 2/4 Z
- Total weight of steel structures: 1850 tons



Offshore installations – Realizations Oil & Gas



Subsea structures

- Fabrication of subsea hatches and covers for the Goliat Project.
- Total weight: 350 tons



Offshore installations – Realizations Oil & Gas



FPSO Modules

- Fabrication, assembly and testing of gas compression module & cooling module for FPSO „Sevan Voyageur”.
- Weight: 430 tons & 270 tons



Offshore installations – Realizations

Oil & Gas



FPSO Modules

- Fabrication, assembly and testing of FGRU modules for PETROBRAS FPSO P58 & P62.
- Weight: 2 x 47 tons



Offshore installations – Realizations Oil & Gas



Offshore module and bridge

- Fabrication, assembly and testing of modules and bridge for ELDFISK 2/7 S project for Conoco Phillips.
- Total weight of steel structures: 3200 tons



Offshore installations – Realizations Oil & Gas



Modules for AGMP Platform

- Fabrication and assembly of Separator Module, Cantilever Structure, Pig Trap Module and Pig Receiver Module for Total – project Anguille.
- Weight: 80 + 75 + 53 + 26 tons



Offshore installations – Realizations Oil & Gas



Cranes for AHTS Vessel

- Fabrication and installation of A-Frame structure on AHTS vessel Skandi Skansen
- Weight: 232 tons



Offshore installations – Realizations Oil & Gas



Module handling tower for offshore vessels

- Fabrication and assembly of module handling tower for offshore vessel „Scandi Aker”.
- Weight: 429 tons
- Dimensions: 43 x 18,5 x 12,7 m



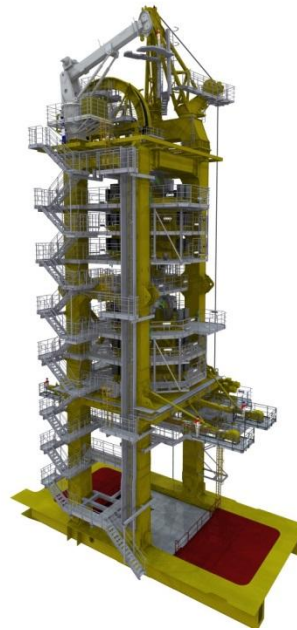
Offshore installations – Realizations

Oil & Gas



Pipe laying towers

- Fabrication of J-type pipe lay towers (2 pcs) for Odebrecht PSLV
- Weight: 800 tons/pc
- Height: 36 m

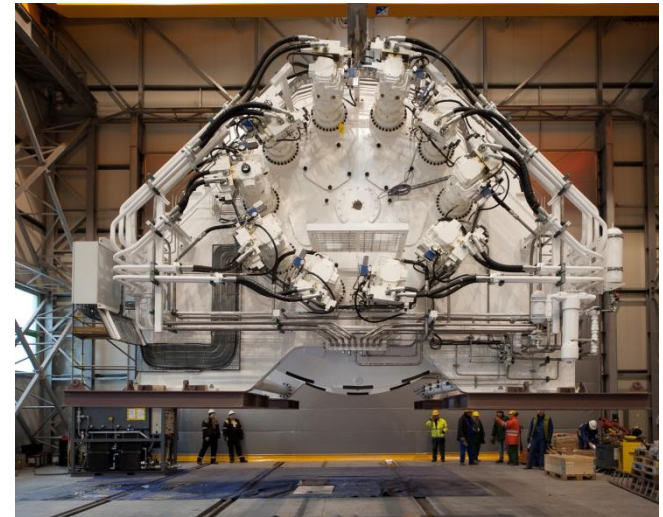


Offshore installations – Realizations Oil & Gas



Winches

- Fabrication of main winches for offshore vessels
- Weight: 115 tons/pc
- Dimensions: 6,1 x 4,4 x 4,3 m



Offshore installations – Realizations

Oil & Gas



Onshore modules

- Fabrication and assembly of 15 completely equipped pipe racks for Ormen Lange project.
- Weight: 2200 tons



Offshore installations – Realizations

Renewable Energy



Topside for offshore wind farms

- Fabrication of transformer platform for offshore Rødsand Wind Farm (DK)
- Weight: 350 tons



Offshore installations – Realizations Renewable Energy



Topside for offshore wind farms

- Fabrication of two substation topsides for Walney Offshore Wind Farm (UK)
- Weight: 1.300 tons



Offshore installations – Realizations Renewable Energy



Steel structure for offshore wind farms

- Fabrication of transition piece elements - groutskirts for London Array Offshore Wind Farm (UK)
- Total weight: 2.560 tons



Offshore installations – Realizations Renewable Energy



Steel structure for offshore wind farms

- Fabrication of transition piece pedestals for London Array Offshore Wind Farm Barges (UK)



Offshore installations – Realizations Renewable Energy



Steel structure for offshore wind farms

- Prefabrication of cathodic protection structures for London Array Offshore Wind Farm (UK)
- Total weight: 2.072 tons



Offshore installations – Realizations

Renewable Energy



Steel structure for offshore wind farms

- Fabrication and installation of seafasteing beams on three vessels for transportation of TP and MP for Gwynt y Môr Offshore Wind Farm (UK).
- Total weight: 335 tons



Offshore installations – Realizations

Renewable Energy



Steel structure for offshore wind farms

- Fabrication of external platforms and TP covers for Gwynt y Môr Offshore Wind Farm (UK).
- Total weight: 800 tons



Offshore installations – Realizations Conversions



Offshore vessels

- Repair and Conversion of „Willem de Vlamingh” from stone dumping into cable laying vessel.
- DWT: 6500
- LOA/LPP: 115 m
- Draft: 5,4 m



Offshore installations – Realizations Conversions



Geophysical vessels

- Conversion and repair of geophysical vessel „Kommandor Calumn”.
- DWT: 620
- LOA/LPP: 76 m
- Draft: 4,5 m



Offshore installations – Realizations Conversions



Offshore vessels

- Conversion of cable laying vessel „Team Oman”
- DWT: 4800
- LOA/LPP: 86 m
- Draft: 3,6 m



Example of recent activity of vessels converted and built by MARS companies



Northwind Offshore Wind Farm

- **Heavy lift jack-up vessel „Innovation”** built by Crist - installing of wind towers.
- Willem de Vlamingh – **cable laying vessel** converted by Energomontaż-Północ Gdynia - installing of 245kV cable connecting the offshore farm with the coast





Energomontaż-Północ Gdynia

For commercial inquiries please contact:

Mr. Tomasz Olszewski - Commercial Director
tolszewski@energomontaz-polnoc.com.pl

Mr. Kazimierz Palczykowski – Bidding Manager
kpalczykowski@energomontaz-polnoc.com.pl



Energomontaż-Północ Gdynia

Thank you for your attention

Energomontaz-Polnoc Gdynia Ltd.
81-038 Gdynia
Handlowa 19
Poland

Tel. 00 48 58 667 32 81

Fax: 00 48 58 623 71 18

e-mail: energomontaz@energomontaz-polnoc.com.pl

www.energomontaz-polnoc.com.pl

