

DIRECTORY OF SKILLS

MARINE RENEWABLE ENERGY
IN PAYS DE LA LOIRE



l'esprit grand ouvert



Région
PAYS DE LA LOIRE



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About this directory

Dedicated to stakeholders in the marine renewable energy sector, this directory is a non-exhaustive inventory of the skills and knowhow present in the Pays de la Loire region, with on the one hand, industrial and service companies (positioned on the different links of the value chain) and on the other, the main players in research and innovation (academics, competitiveness clusters...).

This project is the result of a collective effort carried by *L'Agence régionale - Pays de la Loire Territoires d'Innovation*, in close cooperation with the *Neopolia MRE cluster*, the *Saint-Nazaire offshore wind farm consortium* led by *EDF Énergies Nouvelles*, the company *Les éoliennes en mer de Vendée* (consortium led by *ENGIE*) and all the regional structures involved in the development and the structuring of the marine renewable energy sector.

For this 2015 version, 200 companies (selected by all the stakeholders) were questioned. You will find all the structures who responded before the date of publication.

This document will be regularly updated.

Please transmit your requests for modifications by email to Caroline Garcin

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of L'Agence régionale - Pays de la Loire Territoires d'Innovation.



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COMPANIES DETAILED ACTIVITIES



STX substation - ©Bernard Biger - STX France

Neopolia is a network which brings together industrial companies from the Pays de la Loire region. An association founded and run by local business owners aiming to increase diversification and competitiveness of companies in the region, Neopolia supports clients in their innovative approaches and works alongside regional institutions to ensure balanced industrial development in the territory.

Neopolia MRE: customized solutions for Marine Renewable Energy

The MRE Business Cluster groups 85 industrial companies with around thirty skills. A Piloting Committee comprising 12 directors defines the strategic and commercial policy guidelines for the MRE cluster.

The organization around 8 strategic business activities enables companies to be grouped by expertise and develop alliances to reach MRE markets.

8 strategic business activities

The 85 companies are positioned on one or several of the eight strategic business activities defined by the cluster:

- 1** Land-based Infrastructures
- 2** Industrial Processes & Tooling
- 3** Logistics & Supply Chain
- 4** Primary & secondary steel
- 5** Integrated Systems
- 6** Complex assemblies for turbines
- 7** Operations & Maintenance
- 8** Support Vessels

Each strategic business activity includes a "pilot" company and a cluster of companies.

The company clusters in each strategic business activity work with 3 tangible focuses:

- Collaborative BtoB projects carried out with the major market stakeholders to identify and quantify needs,
- Joint construction of strategic company positioning,
- Individual, group or co-development project responses.

Partnerships:

To promote skills improvements and increased orders for its member companies, Neopolia MRE has signed 4 partnerships:

- STX France SA : Partnership convention and implementation of co-industrialization groups undertaken to construct metal foundations and offshore electrical substations,
- Alstom Wind Offshore : Industrial cooperation framework and implementation of co-development groups for the industrialization and production of the Haliade 150,
- Éolien Maritime France : EDF Énergies Nouvelles, DONG Energy, WPD Offshore and Neopolia MRE work together for the development of the industrial expertise of cluster companies, thus enabling them to offer competitive solutions to project stakeholders,
- The Éoliennes en mer de Vendée (Vendée Offshore Wind Turbines) : ENGIE, EDPR, Neoen, Adwen and Neopolia EMR work together to develop the industrial expertise of cluster companies, enabling them to offer competitive solutions to project stakeholders.

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ACEBI

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
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Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

- **Equipment maintenance:** periodic inspections and certification

MRE references:

Acebi designs and produces:

- equipment for offshore operations and safety, stabilized access gangways for offshore wind turbines and electrical stations for access from stationary crewboats and support vessels at sea.
- marine handling cranes.
- Acebi has developed a compensated access gangway to wind turbines from service vessels that compensates for vessel movements.

Qualifications:

Acquired: EN ISO 9001

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ADF COTE OUEST

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
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	High and Low Voltage Electricity				

Activity:

- **Sheet metal work:** large and medium-scale sheet metal work, stainless steel, fine sheet metal work, plates, special steels, steel structures, steel joinery
- **Small industrial metal work - Pipe work:** pipe work
- **Special machinery:** automation, manufacturing - transformation process

MRE references:

Production of transportation cradles for wind turbine nacelles for ALSTOM.

Qualifications:

Acquired: EN ISO 9001 - EN 14001 - MASE

Currently being acquired: EN ISO 3834

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AFC-STAB

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
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Activity:

- **Manufacturer of plastic and composite parts:** composite moulds and tools
- **Mechanical machining:** large-size machining, high-precision machining
- **Engineering - Design office:** manufacturing - processing, mechanics, tools

MRE references:

- 5-axis CNC machining of soft materials (to aluminium). Design of tooling and moulds.
- NDA and negotiations in progress.

Qualifications:

Currently being acquired: EN ISO 9001

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ALSTOM RENEWABLE POWER

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
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Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
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Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

- **Engineering - Design office:** structural - materials calculations, manufacturing - transformation processes, mechanics, tooling, energy
- **Integration of industrial equipment:** automation, instrumentation - regulation, LV - HV equipment (boxes,...), power electronics, command-control systems, hydraulics, electricity

MRE references:

ALSTOM has been involved in the development of the Haliade offshore wind turbine and Océade™ tidal power in the Pays de la Loire region.

Qualifications:

Acquired: EN ISO 9001

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ALUMARINE SHIPYARD

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
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	High and Low Voltage Electricity				

Activity:

- **Mounting - Assembly**

MRE references:

Manufacture of aluminium structures and parts.

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AMPH

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
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	High and Low Voltage Electricity				

Activity:

- **Mechanical machining:** large-dimension machining

Qualifications:

Currently being acquired: EN ISO 9001

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APAVE

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
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	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

- H&S monitoring, Technical inspection

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ARCADIS

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
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	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

- **Engineering - Design Office:** project management, project management support

MRE references:

Port infrastructure: project management of the polder 124 in Brest.
 Design of the extension to the Flammands quay in Cherbourg.

Qualifications:

Acquired: EN ISO 9001 - EN 14001 - MASE

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ARTELIA

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
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Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

- **Engineering - Design office:** project management, project management assistance, structural analysis - materials, energy
- **Building - Structural work:** civil engineering, dismantling, project management assistance
- **Maritime Service**

Qualifications:

Acquired: EN ISO 9001 - EN 14001

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ASSISTANCE AÉRONAUTIQUE ET AÉROSPATIALE

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
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Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

- **Mounting - Assembly:** hydraulics, electrical - electronic cabling, mechanics
- **Integration of industrial equipment:** hydraulics, electricity

Qualifications:

Acquired: EN ISO 9001

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ASSYSTEM

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components Cast parts	Onshore assembly at dock Foundations	Support Vessels	Insurance	
Resource measurements	HVAC - Air conditioning - pressurization	Offshore installations		Bank - Financing	
Wind - Wave - Current Measurements	Power electronics - Command-control systems	Electrical connection		Waste treatment	
Environmental Impact Studies	Instrumentation - Monitoring Hydraulics - Pneumatics High and Low Voltage Electricity	Transport - Handling - Port services			

Activity:

• **Engineering - Design Office:** project management, project management support, structural - materials calculations, mechanics, energy, technical assistance and advice

Qualifications:

Acquired: EN ISO 9001 - OHSAS - MASE

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ATELIERS PRESQU'ILE 3D

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
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Resource measurements	HVAC - Air conditioning - pressurization	Offshore installations		Bank - Financing	
Wind - Wave - Current Measurements	Power electronics - Command-control systems	Electrical connection		Waste treatment	
Environmental Impact Studies	Instrumentation - Monitoring Hydraulics - Pneumatics High and Low Voltage Electricity	Transport - Handling - Port services			

Activity:

• **Mechanical machining:** high-precision machining

Qualifications:

Acquired: EN ISO 9001 - EN 14001

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MRE Contact:

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ATLANTIQUE QUALITE

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components Cast parts	Onshore assembly at dock Foundations	Support Vessels	Insurance	
Resource measurements	HVAC - Air conditioning - pressurization	Offshore installations		Bank - Financing	
Wind - Wave - Current Measurements	Power electronics - Command-control systems	Electrical connection		Waste treatment	
Environmental Impact Studies	Instrumentation - Monitoring Hydraulics - Pneumatics High and Low Voltage Electricity	Transport - Handling - Port services			

Activity:

- **Quality Control, Inspection, Non Destructive Testing**

MRE references:

- NDT for ADF Côte Ouest on transport cradles of wind turbine nacelles for ALSTOM.
- With the support of our group (SOCOTEC):
- Technical control CARNET site (France) offshore wind,
- NDT of 30 wind turbines on the site Ashegoda in Mekele in Ethiopia,
- Scientific computing on wind turbine for SADAC,
- Checking aeromechanics a pale wind for SADAC.

Qualifications:

Acquired: ISO 9001-MASE

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44480 Donges

MRE Contact:

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AUXITEC INDUSTRIE

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components Cast parts	Onshore assembly at dock Foundations	Support Vessels	Insurance	
Resource measurements	HVAC - Air conditioning - pressurization	Offshore installations		Bank - Financing	
Wind - Wave - Current Measurements	Power electronics - Command-control systems	Electrical connection		Waste treatment	
Environmental Impact Studies	Instrumentation - Monitoring Hydraulics - Pneumatics High and Low Voltage Electricity	Transport - Handling - Port services			

Activity:

- **Engineering - Design office:** project management, project management support, structural - materials calculations, mechanics, energy
- **Manufacturing of industrial equipment:** automation, LV - HV equipment (boxes,...), command-control systems, project management

Qualifications :

Acquired: EN ISO 9001 - MASE

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MRE Contact:

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AVHS

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

- **Tool-maker:** small tools
- **Equipment maintenance:** tooling
- **Manufacturer of lifting equipment:** hydraulic cylinders and generators

MRE references:

- Enerpac cylinders from 5T to 2000 T.
- Hydraulic generator 700 B / 1000 B and +.
- Synchronized generator for precision handling.
- Hydraulic generator for wrenches.
- Tensioner for controlled tightening.
- Cofrac calibration for hydraulic torque wrenches.
- Official dealer for Enerpac- Cylinders, hydraulic generators 700 B / 1000B / 2500B.
- Tooling supplier for STX and ALSTOM WIND.

Qualifications:

Currently being acquired: EN ISO 9001

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MRE Contact:

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AXSON FRANCE

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

- **Manufacturer of plastic and composite parts:** composite, elastomer

MRE references:

Formulator and producer of Epoxy systems for the production of composite parts (blades...).

GL certified systems.

Production of structural adhesives.

Qualifications:

Acquired: EN ISO 9001 - EN 14001

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BANQUE POPULAIRE ATLANTIQUE

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components Cast parts	Onshore assembly at dock Foundations	Support Vessels	Insurance	
Resource measurements	HVAC - Air conditioning - pressurization	Offshore installations		Bank - Financing	
Wind - Wave - Current Measurements	Power electronics - Command-control systems	Electrical connection		Waste treatment	
Environmental Impact Studies	Instrumentation - Monitoring Hydraulics - Pneumatics High and Low Voltage Electricity	Transport - Handling - Port services			

Activity:

- Banking institution

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BEE ENGINEERING

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components Cast parts	Onshore assembly at dock Foundations	Support Vessels	Insurance	
Resource measurements	HVAC - Air conditioning - pressurization	Offshore installations		Bank - Financing	
Wind - Wave - Current Measurements	Power electronics - Command-control systems	Electrical connection		Waste treatment	
Environmental Impact Studies	Instrumentation - Monitoring Hydraulics - Pneumatics High and Low Voltage Electricity	Transport - Handling - Port services			

Activity:

- **Engineering - Design office:** project management, project management support, structural - materials calculations, mechanics, energy

MRE references:

We work with CMN and HydroQuest to develop electrical sub-systems for tidal power installations in the "Searius" project.

Qualifications:

Currently being acquired: EN ISO 9001 - MASE

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MRE Contact:

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BESNE MECANIQUE DE PRECISION

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

- **Mechanical machining:** large-dimension machining, large-dimension assembly, very high precision machining, studies
- **Tool-maker:** molds, large tooling, assembly line, studies
- **Engineering - Design office:** mechanics, tooling, energy, automation

MRE references:

- Aeronautics.
- Defense.
- Energy.
- Aeronautical assembly lines.
- Test benches.
- Industrial processes with automation or robotics.
- Developments in Wind Turbines and Tidal Power.

Qualifications:

Acquired: EN ISO 9001

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44160 Besné

MRE Contact:

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BESSÉ

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

- **Insurance consultancy**

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BILLET MARINE

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

- **Shipyard:** naval maintenance
- **Mounting - Assembly:** hydraulics, electrical - electronic cabling, mechanics
- **Industrial equipment integration:** power electronics, hydraulics, electricity

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MRE Contact:

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BIO-LITTORAL

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

- **Engineering - Design office:** Marine environment ecology and industry.

MRE references:

Marine biodiversity, operation of marine ecosystems, aquaculture, Natura 2000, impact studies, expertise and advice in the marine industrial development field (taxonomy, diving, skips, trawling, remote sensing, sonar, modelling).

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MRE Contact:

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BIOTOPE

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components Cast parts	Onshore assembly at dock Foundations	Support Vessels	Insurance	
Resource measurements	HVAC - Air conditioning - pressurization	Offshore installations		Bank - Financing	
Wind - Wave - Current Measurements	Power electronics - Command-control systems	Electrical connection		Waste treatment	
Environmental Impact Studies	Instrumentation - Monitoring Hydraulics - Pneumatics High and Low Voltage Electricity	Transport - Handling - Port services			

Activity:

• **Engineering - Design office:** environment

MRE references:

- Engineering office specializing in naturalist expertise, landscape, regulatory studies (impacts), consulting in the environmental integration of developments.
- 20 years experience including more than 10 years in marine and coastal environments, numerous studies for offshore wind turbine projects in France (Atlantic, Channel, Mediterranean).
- Specific expertise: expertise in avifauna, marine mammals, radar appraisal.
- R&D service with development of stand-alone tools for marine environment assessments (multi-instrument buoys) and specific radars for marine environments.
- 10 offshore wind turbine projects (bottom-mounted and land-based).
- 1 Ocean Thermal Energy project.
- 1 tidal power project.

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BLUE WATER SHIPPING

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components Cast parts	Onshore assembly at dock Foundations	Support Vessels	Insurance	
Resource measurements	HVAC - Air conditioning - pressurization	Offshore installations		Bank - Financing	
Wind - Wave - Current Measurements	Power electronics - Command-control systems	Electrical connection		Waste treatment	
Environmental Impact Studies	Instrumentation - Monitoring Hydraulics - Pneumatics High and Low Voltage Electricity	Transport - Handling - Port services			

Activity:

- **Logistics provider:** factory - line-side supply, exceptional transport, heavy and outsize packages, maritime transport
- **Port Logistics provider:** exceptional transport, heavy and outsize packages, international logistics, handling

MRE references:

- 20 years experience in MREs and bottom-mounted wind turbines in Europe.
- We work with all wind turbine manufacturers.
- Management of 1 million m² of port area in Denmark.

Qualifications:

Acquired: EN ISO 9001 - EN 14001 - OHSAS

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MRE Contact:

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BUREAU VERITAS

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

- **Certification, Risk analysis**

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CALIDRIS

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

- **Engineering - Design office:** environmental studies

MRE references:

- Fauna - flora impact studies for connecting MRE projects.
- Impact studies for MRE projects.
- Guideline documents for MRE projects.

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MRE Contact:

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CETEAL

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components Cast parts	Onshore assembly at dock Foundations	Support Vessels	Insurance	
Resource measurements	HVAC - Air conditioning - pressurization	Offshore installations		Bank - Financing	
Wind - Wave - Current Measurements	Power electronics - Command-control systems	Electrical connection		Waste treatment	
Environmental Impact Studies	Instrumentation - Monitoring Hydraulics - Pneumatics High and Low Voltage Electricity	Transport - Handling - Port services			

Activity:

• **Engineering - Design office:** project management assistance, structural analysis - materials, manufacturing process - processing

MRE references:

- Pilot tidal turbine farm of Paimpol-Bréhat.
- Baie de Fundy tidal power demonstration.
- Offshore wind farm, Fécamp.

Qualifications:

Currently being acquired: EN ISO 9001

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CHANTIER NAVAL DELAVERGNE SARL

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components Cast parts	Onshore assembly at dock Foundations	Support Vessels	Insurance	
Resource measurements	HVAC - Air conditioning - pressurization	Offshore installations		Bank - Financing	
Wind - Wave - Current Measurements	Power electronics - Command-control systems	Electrical connection		Waste treatment	
Environmental Impact Studies	Instrumentation - Monitoring Hydraulics - Pneumatics High and Low Voltage Electricity	Transport - Handling - Port services			

Activity:

- **Shipyard:** aluminum, large and medium-scale sheet metal work, superstructures
- **Sheet metal work:** aluminum

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CHANTIER VENDEEN

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

- **Shipyard:** maintenance
- **Integration of industrial equipment:** hydraulics, electricity, mechanics
- **Equipment maintenance:** electromechanics

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CHARIER SA

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

- **Industrial equipment manufacturing:** LV - HV equipment (boxes..)

Qualifications :

Acquired: EN ISO 9001 - EN 14001 - MASE

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CHOUTEAU ATLANTIQUE

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

• **Sheet metal work:** large and medium-scale sheet metal work, plates, special steels, steel structures

MRE references:

- Parts from 1 Kg to 30 tonnes.
- DONG and SAIPEM / TOTAL project in 2nd level with STX.
- Manufacturing of mechanically welded structures and small metal work.
- Sheet metal work elements.

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COFELY ENDEL

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

- **Small industrial metal work - Pipe work:** pipe work
- **Sheet metal work:** large and medium-scale sheet metal work, stainless steel, fine sheet metal work, plates, special steels, steel structures
- **Equipment maintenance:** electromechanics

MRE references:

- Production of large-dimension 600 mm gas pipes.
- Special welding.
- Assembly of the tripod for the Open Hydro tidal power structure (Brest).
- Barge loading (lifting equipment, handling) of the Voith tidal power system in Cherbourg.

Qualifications:

Acquired: EN ISO 9001 - EN 14001 - OHSAS - MASE

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MRE Contact:

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COLAS CENTRE OUEST

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

- **Building - Structural work:** granulates, earthwork, civil engineering structures, dismantling, highways, hydraulic networks

MRE references:

Design-production of the ALSTOM Power factory in Montoir de Bretagne 44.

Qualifications:

Acquired: EN ISO 9001 - EN 14001 - OHSAS - MASE

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MRE Contact:

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CONSEPT INGENIERIE

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

- **Engineering - Design office:** project management support, structural - materials calculations, manufacturing - transformation processes, mechanics, tooling

Qualifications :

Acquired: EN ISO 9001

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MRE Contact:

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CREOCEAN

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components Cast parts	Onshore assembly at dock Foundations	Support Vessels	Insurance	
Resource measurements	HVAC - Air conditioning - pressurization	Offshore installations		Bank - Financing	
Wind - Wave - Current Measurements	Power electronics - Command-control systems	Electrical connection		Waste treatment	
Environmental Impact Studies	Instrumentation - Monitoring Hydraulics - Pneumatics High and Low Voltage Electricity	Transport - Handling - Port services			

Activity:

- **Engineering - Design office:** project management support, marine environment - permitting - geophysics, oceanography

MRE references:

Engineering office for the marine environment and oceanographic and geophysical studies, having carried out:

- Studies and authorization application for the St-Nazaire offshore wind farm.
- Studies and authorization application for Sem-Rev.
- Studies and authorization application for the connection cable laying for the St-Brieu Ailes Marines offshore wind farm.
- Thematic studies for a floating wind turbine project.
- Study and management of the implementation of an Ocean Thermal Energy system in Polynesia.

Qualifications:

Currently being acquired: OHSAS

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CRIT

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components Cast parts	Onshore assembly at dock Foundations	Support Vessels	Insurance	
Resource measurements	HVAC - Air conditioning - pressurization	Offshore installations		Bank - Financing	
Wind - Wave - Current Measurements	Power electronics - Command-control systems	Electrical connection		Waste treatment	
Environmental Impact Studies	Instrumentation - Monitoring Hydraulics - Pneumatics High and Low Voltage Electricity	Transport - Handling - Port services			

Activity:

- **Training, skills management, temporary work**

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MRE Contact:

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CTS - CONSULTING & TECHNICAL SUPPORT

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

- **Engineering - Design office:** project management assistance, structural analysis - materials, mechanics, tooling, energy.
- **Logistics:** Factory supply - line side delivery

Qualifications :

Acquired: MASE

Currently being acquired: EN ISO 9001

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CVIM

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

- **Sheet metal work:** large and medium-scale sheet metal work, stainless steel, fine sheet metal work, plates, special steels, steel structures
- **Manufacturing of lifting equipment:** winch, commissioning - testing
- **Industrial equipment manufacturing:** hydraulics, electricity

Qualifications :

Acquired: EN ISO 9001 - EN 14001 - OHSAS

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DCNS

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

- **Engineering - Design office:** project management, project management support, farm engineering
- **Integration of industrial equipment:** project management
- **Industrial equipment manufacturing:** project management

MRE references:

- Equipments' development
- Tidal turbines test farm in Paimpol Brehat for EDF
- Tidal turbines Pilot farm in Normandie for EDF EN (Normandie Hydro)
- Tidal turbines test farm in Canada (Bay of Fundy – Cape Sharp)
- Nemo Project: OTEC power plant in Martinique with Akuo Energy
- Sea Reed Project with Alstom (floating wind turbines)

Qualifications:

Acquired: EN ISO 3834 - EN ISO 9001 - EN 14001 - OHSAS

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DEMATHIEU BARD

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

- **Building - Structural work:** civil engineering, industrial buildings
- **Building - Structural work:** civil engineering

Qualifications:

Acquired: EN ISO 9001 - EN 14001 - OHSAS – MASE

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ECA EN

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components Cast parts	Onshore assembly at dock Foundations	Support Vessels	Insurance	
Resource measurements	HVAC - Air conditioning - pressurization	Offshore installations		Bank - Financing	
Wind - Wave - Current Measurements	Power electronics - Command-control systems	Electrical connection		Waste treatment	
Environmental Impact Studies	Instrumentation - Monitoring Hydraulics - Pneumatics High and Low Voltage Electricity	Transport - Handling - Port services			

Activity:

• **Industrial equipment manufacturing:** LV - HV equipment (boxes...), power electronics, command-control systems, electricity

Qualifications:

Acquired: EN ISO 9001

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MRE Contact:

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ECO MARINE SERVICES SAS

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components Cast parts	Onshore assembly at dock Foundations	Support Vessels	Insurance	
Resource measurements	HVAC - Air conditioning - pressurization	Offshore installations		Bank - Financing	
Wind - Wave - Current Measurements	Power electronics - Command-control systems	Electrical connection		Waste treatment	
Environmental Impact Studies	Instrumentation - Monitoring Hydraulics - Pneumatics High and Low Voltage Electricity	Transport - Handling - Port services			

Activity:

• **Maritime services:** technical assistance, personnel transfer

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EMCC GROUPE VINCI

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

- **Building - structural work:** earthwork, civil engineering structures, dismantling, maritime work
- **Maritime services:** offshore cable laying, technical assistance, maritime equipment

Qualifications :

Acquired: EN ISO 9001 - EN 14001
Currently being acquired: MASE

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STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

- **Building - structural work:** civil engineering structures, maritime and river work
- **Maritime services:** charter, offshore cable laying, technical assistance.

MRE references:

Most recent references:

- 200m quay in La Pallice and RoRo in Montoir.
 - Delivery of the Market Hub for the SEMREV project mid-September 2015: implementation, 40 meters deep and 15 nautical miles from Croisic, of a Hub, a junction box, connectors and umbilical of 1,300 meters for the future connection to the Floatgen project - first French floating wind turbine.
 - Work for the "Floatgen" floating wind turbine project.
- ETPO is positioned on the "second level" for MRE: our heavy nautical equipment is perfectly adapted to secondary operations (sub-station, hub, maintenance cables, burying, anchoring, special sub-aquatic foundations); we have 1000 to 1500 tonne pontoons equipped with 160 to 250 tonnes cranes, and Jack-Ups. Our TETIS subsidiary can take charge of all sub-aquatic assistance services.
- ETPO makes 20% of its turnover in maritime and river works. ETPO Heavy water works are on all three coasts of the region, namely: The North Sea - Channel (Le Havre port), the Atlantic (St Nazaire port) and the Mediterranean (subsidiary NEGRI - Fos / Marseille port).

Qualifications:

Acquired: EN ISO 9001 - EN 14001 - OHSAS - MASE

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EUROPE TECHNOLOGIES

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

- **Mechanical machining:** large-dimension machining, large-dimension assembly, very high precision machining, surface treatment
 - machining and tooling;
 - composite and metal machining.
 - tooling design and production.
 - machining optimization and programming.
 - vibration monitoring and analysis.
- **Manufacturer of plastic and composite parts:** composites, thermoplastics composite engineering;
 - assistance for design, development and industrialization of composite parts.
 - production of prototype parts and small batches.
 - repair of composite parts.
 - composite test laboratory.
- **Special machinery:** automation, manufacturing-transformation process, robotics.
 - ultrasonic surface treatment: activated shot peening.
 - shot peening of welded joints (finishing of mechanically welded parts).

MRE references:

ROBOT CELL FOR COMPOSITE FINISHING.
Machining, drilling, sanding and trimming of parts

Qualifications:

Acquired: EN ISO 9001

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FIMOR SAS

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components Cast parts	Onshore assembly at dock Foundations	Support Vessels	Insurance	
Resource measurements	HVAC - Air conditioning - pressurization	Offshore installations		Bank - Financing	
Wind - Wave - Current Measurements	Power electronics - Command-control systems	Electrical connection		Waste treatment	
Environmental Impact Studies	Instrumentation - Monitoring Hydraulics - Pneumatics High and Low Voltage Electricity	Transport - Handling - Port services			

Activity:

• **Manufacturer of plastic and composite parts:** elastomer

MRE references:

Manufacturer of polyurethane elastomer sheets and customized molded parts. Specially developed to meet extreme constraints, our elastomer stands out by its high resistance to loads of several tonnes and metal/metal contacts and its high shock absorption capability.

Qualifications:

Acquired: EN ISO 9001 - EN 14001

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FIXATOR

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components Cast parts	Onshore assembly at dock Foundations	Support Vessels	Insurance	
Resource measurements	HVAC - Air conditioning - pressurization	Offshore installations		Bank - Financing	
Wind - Wave - Current Measurements	Power electronics - Command-control systems	Electrical connection		Waste treatment	
Environmental Impact Studies	Instrumentation - Monitoring Hydraulics - Pneumatics High and Low Voltage Electricity	Transport - Handling - Port services			

Activity:

• **Manufacturing of lifting equipment:** cradles, hoists

MRE references:

Suspended platforms manufacturer, for work on masts.

Qualifications:

Acquired: EN ISO 9001

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FLOWSERVE POMPES

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components Cast parts	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	HVAC - Air conditioning - pressurization	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	Power electronics - Command-control systems	Offshore installations		Waste treatment	
Environmental Impact Studies	Instrumentation - Monitoring Hydraulics - Pneumatics High and Low Voltage Electricity	Electrical connection Transport - Handling - Port services			

Activity:

- **Industrial equipment manufacturing:** instrumentation - regulation, hydraulics, fire protection
- **Engineering - Design office:** mechanics

MRE references:

Sub-station cooling by SWAC.

Qualifications:

Acquired: EN ISO 9001 - MASE

Currently being acquired: EN 14001

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FMGC

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components Cast parts	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	HVAC - Air conditioning - pressurization	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	Power electronics - Command-control systems	Offshore installations		Waste treatment	
Environmental Impact Studies	Instrumentation - Monitoring Hydraulics - Pneumatics High and Low Voltage Electricity	Electrical connection Transport - Handling - Port services			

Activity:

- **Sheet metal work:** foundry
- **Engineering - Design office:** manufacturing - transformation processes

MRE references:

FMGC is a foundry that produces cast iron suitable for ballast solutions for underwater cables and machines.

FMGC designs, develops and manufactures its ballast solutions.

Sabella D10, IBOCS, Clump weight.

Qualifications:

Acquired: EN ISO 9001 - EN 14001

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GENERAL CABLE

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Metal Construction	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Surface treatment - Coating	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Mechanical and electromechanical components	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	Cast parts	Offshore installations		Waste treatment	
Environmental Impact Studies	HVAC - Air conditioning - pressurization	Electrical connection			
	Power electronics - Command-control systems	Transport - Handling - Port services			
	Instrumentation - Monitoring				
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

- **Industrial equipment manufacturing:** LV - HV equipment (boxes...), HVAC, command-control systems, electricity
- **Manufacturer of plastic and composite parts:** thermoplastic, elastomer

MRE references:

Tidal power test site at Paimpol Bréhat (export cable).
SEMREV experimentation site (export cable).

Qualifications:

Acquired: EN ISO 9001 - EN 14001 - OHSAS

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MRE Contact:

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GEPS TECHNO

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Metal Construction	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Surface treatment - Coating	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Mechanical and electromechanical components	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	Cast parts	Offshore installations		Waste treatment	
Environmental Impact Studies	HVAC - Air conditioning - pressurization	Electrical connection			
	Power electronics - Command-control systems	Transport - Handling - Port services			
	Instrumentation - Monitoring				
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

- **Engineering - Design office:** project management support, energy, monitoring
- **Production of industrial equipment :** instrumentation - regulation, command control, autonomous energy supply

MRE references:

PMH Project (Wave Energy Pilot Module).
PH4S (4 source Hybrid Pilot).
CAPTIVEN.

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MRE Contact:

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GESTAL

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

• **Mounting - Assembly:** electrical cabling - electronics, mechanics, locksmith

MRE references:

Collaboration with STX and ALSTOM.

Qualifications:

Acquired: EN ISO 9001

Currently being acquired: EN ISO 3834 - EN 14001

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MRE Contact:

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GRAND PORT MARITIME DE NANTES SAINT-NAZAIRE

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

• **Maritime services:** major maritime port

MRE references:

ALSTOM factory installation.

Creation of St-Nazaire logistics hub.

Reception of Haliade 150 bottom-mounted wind turbine prototype.

Shipping site for floating wind turbines.

Qualifications:

Acquired: EN ISO 9001 - EN 14001 - MASE

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GROLLEAU SAS

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

- **Industrial equipment integration:** LV - HV equipment (boxes...)
- **Sheet metal work:** stainless steel, fine sheet metal work
- **Engineering - Design office:** energy

Qualifications:

Acquired: EN ISO 9001 - EN 14001

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GROUPE LHD

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

- **Maritime Services:** technical assistance for construction works at sea, ship chartering, ship services (relief crew, storage and refuelling)

MRE references:

- Installation and removal of oceanographic equipment for SEM-REV and the future 2 îles wind farm.
- Provision of water resources for geophysical operations for the Guérande future wind farm.
- Crew relief services for projects on the SEM-REV site.

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HUGUET INGENIERIE

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components Cast parts	Onshore assembly at dock Foundations	Support Vessels	Insurance	
Resource measurements	HVAC - Air conditioning - pressurization	Offshore installations		Bank - Financing	
Wind - Wave - Current Measurements	Power electronics - Command-control systems	Electrical connection		Waste treatment	
Environmental Impact Studies	Instrumentation - Monitoring Hydraulics - Pneumatics High and Low Voltage Electricity	Transport - Handling - Port services			

Activity:

- **Special machinery:** automation, manufacturing-transformation process, robotics
- **Integration of industrial equipment:** automation, instrumentation - regulation, LV - HV equipment (boxes,...), power electronics, command-control systems, electricity
- **Equipment maintenance:** electromechanical, electrotechnical

MRE references:

Automated line for shot peening, plating, painting of slewing rings.
Studies and turnkey production of customized production equipment: robotic equipment, special machines, automation, transformation of machine tools for machining metals and composites.

Qualifications:

Currently being acquired: EN ISO 9001

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HYDROCEAN

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components Cast parts	Onshore assembly at dock Foundations	Support Vessels	Insurance	
Resource measurements	HVAC - Air conditioning - pressurization	Offshore installations		Bank - Financing	
Wind - Wave - Current Measurements	Power electronics - Command-control systems	Electrical connection		Waste treatment	
Environmental Impact Studies	Instrumentation - Monitoring Hydraulics - Pneumatics High and Low Voltage Electricity	Transport - Handling - Port services			

Activity:

- **Engineering - Design office:** structural - materials calculations, energy, digital simulation

MRE references:

World leader in digital simulations applied to the maritime domain

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MRE Contact:

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HYDROFLUID TECHNOLOGIES

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components Cast parts	Onshore assembly at dock Foundations	Support Vessels	Insurance	
Resource measurements	HVAC - Air conditioning - pressurization	Offshore installations		Bank - Financing	
Wind - Wave - Current Measurements	Power electronics - Command-control systems	Electrical connection		Waste treatment	
Environmental Impact Studies	Instrumentation - Monitoring Hydraulics - Pneumatics High and Low Voltage Electricity	Transport - Handling - Port services			

Activity:

- **Industrial equipment manufacturing:** instrumentation - regulation, power electronics, command-control systems, hydraulics, electricity
- **Engineering - Design office:** structural - materials calculations, mechanics, tooling, hydraulic studies
- **Equipment maintenance:** hydraulic maintenance

MRE references:

Studies, design and manufacturing of hydraulic equipment for generator handling, MRE activity.

Qualifications:

Acquired: EN ISO 9001

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IDEA LOGISTIQUE

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components Cast parts	Onshore assembly at dock Foundations	Support Vessels	Insurance	
Resource measurements	HVAC - Air conditioning - pressurization	Offshore installations		Bank - Financing	
Wind - Wave - Current Measurements	Power electronics - Command-control systems	Electrical connection		Waste treatment	
Environmental Impact Studies	Instrumentation - Monitoring Hydraulics - Pneumatics High and Low Voltage Electricity	Transport - Handling - Port services			

Activity:

- **Logistics:** advanced supplier store, line side supply, production delegation, outsourcing management, inventory management, kitting and order preparation, industrial packaging, exceptional transport of heavy and oversize packages, specific supply chain control

MRE references:

IDEA Logistics ensures logistics operations for ALSTOM, DCNS, General Electric and other players in wind / tidal energy

Qualifications:

Acquired: ISO 9001 - EN 9100 - OHSAS - MASE

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STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

- **Engineering - Design office:** project management, project management support, structural - materials calculations, energy

MRE references:

offshore wind turbines:

- Engineering and design and foundation dimensioning studies for wind turbines (Jacket, GBF, Monopile Hybrids).
- Engineering for electrical connections and installation and protection operations.
- Underwater cable protection solutions.
- Transport and installation engineering, logistics studies.
- Package Management.
- Recent wind farms: Poland, Belwind 2, Baltic 2, Navitus Bay, Rentel, Arkona,
- Wind farms in France: Ile d'Yeu-Noirmoutier, Saint-Nazaire, Saint-Brieuc, Courseulles, Fécamp, le Tréport.

Floating wind turbines:

- Market and technological positioning studies.
- Float engineering.
- Technical studies and concept optimization, experimentation in scale model basin, structure dimensioning.

Tidal power:

- Projects in France: Raz Blanchard, Fromveur, Paimpol-Bréhat.
- Sub-structure, foundation engineering.
- Installation engineering.
- Engineering for the connection of pilot farms.
- Underwater cable protection solutions.

Wave energy:

- Technical studies, capacity optimization, experimentation in scale model basin, structure dimensioning, preliminary project prototypes, detail studies, costing studies, development consulting.
- Technology, financial support: more than 10 concepts.

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JEFMAG

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Metal Construction	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Surface treatment - Coating	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Mechanical and electromechanical components	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	Cast parts	Offshore installations		Waste treatment	
Environmental Impact Studies	HVAC - Air conditioning - pressurization	Electrical connection			
	Power electronics - Command-control systems	Transport - Handling - Port services			
	Instrumentation - Monitoring				
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

- **Sheet metal work:** medium and large-scale sheet metal work, plates, mechanical welding
- **Mechanical machining:** large-dimension machining, large-dimension assembly

Qualifications:

Acquired: EN ISO 9001

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KAEFER WANNER

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Metal Construction	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Surface treatment - Coating	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Mechanical and electromechanical components	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	Cast parts	Offshore installations		Waste treatment	
Environmental Impact Studies	HVAC - Air conditioning - pressurization	Electrical connection			
	Power electronics - Command-control systems	Transport - Handling - Port services			
	Instrumentation - Monitoring				
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

- **Integration of industrial equipment:** insulation, interiors, relocations

MRE references:

- transformer platforms, thermal insulation, fire protection and interior installation (partitions, furniture).
- Dong Energy Platform at STX: furniture of living area; networks insulation.

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KASADENN

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Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

• **Engineering - Design office:** project management and quality

Qualifications :

Acquired: EN ISO 9001

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KEOPS AUTOMATION

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

• **Integration of industrial equipment: automation, instrumentation - regulation, monitoring and control**

MRE references:

- R & D for HYPERWIND project in partnership with EADS, AREVA, Meteodyn, Nantes University and the Ecole des Mines de Nantes.

Qualifications :

Acquired: EN ISO 9001 - MASE

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LATECOERE SERVICES

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

- **Industrial equipment integration:** project management
- **Tool-maker:** molds, small tooling, large tooling, assembly line
- **Engineering - Design office:** project management, structural - materials calculations, manufacturing - transformation processes, mechanics, tooling

Qualifications :

Acquired: EN ISO 9001 - EN 14001

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LE PRATIQUE

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

- **Mechanical machining:** very high precision machining
- **Engineering - Design office:** mechanics, tooling
- **Mounting - Assembly:** mechanics

Qualifications:

Currently being acquired: EN ISO 9001

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LEMER FONDERIE

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components Cast parts	Onshore assembly at dock Foundations	Support Vessels	Insurance	
Resource measurements	HVAC - Air conditioning - pressurization	Offshore installations		Bank - Financing	
Wind - Wave - Current Measurements	Power electronics - Command-control systems	Electrical connection		Waste treatment	
Environmental Impact Studies	Instrumentation - Monitoring Hydraulics - Pneumatics High and Low Voltage Electricity	Transport - Handling - Port services			

Activity:

- **Sheet metal work:** foundry
- **Mechanical machining:** classical machining

MRE references:

- Lead casting (naval, offshore, underwater construction): ballast.
- Machining of lead ballast, ballast bulb, counterweights.

Qualifications:

Acquired: EN ISO 9001

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LEROUX & LOTZ TECHNOLOGIES

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components Cast parts	Onshore assembly at dock Foundations	Support Vessels	Insurance	
Resource measurements	HVAC - Air conditioning - pressurization	Offshore installations		Bank - Financing	
Wind - Wave - Current Measurements	Power electronics - Command-control systems	Electrical connection		Waste treatment	
Environmental Impact Studies	Instrumentation - Monitoring Hydraulics - Pneumatics High and Low Voltage Electricity	Transport - Handling - Port services			

Activity:

- **Special machinery:** manufacturing - transformation process
- **Engineering - Design office:** structural - materials calculations, manufacturing - transformation process, mechanics, tooling, energy
- **Mounting - Assembly:** mechanics, mounting of complete assemblies

MRE references:

- Offshore and onshore handling equipment.
- Tooling for specific offshore installations.
- Subsea equipment.
- Test beds for offshore tidal power and wind turbine sectors.
- Heavy handling tooling for offshore wind turbines.

Qualifications:

- Acquired: EN ISO 9001
- Currently being acquired: MASE

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MRE Contact:

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LGM

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

• **Engineering - Design office:** project management, project management support

Qualifications:

Acquired: EN ISO 9001 - EN 14001

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MRE Contact:

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MAGI LEVAGE

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

• **Manufacturing of lifting equipment:** pneumatic, cradles, hoists, commissioning – tests

Qualifications:

Acquired: EN ISO 9001

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MRE Contact:

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MECA

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

• **Engineering - Design office:** structural - materials calculations, mechanics, R&D

MRE references:

- Strong skills in composite materials including manufacturing process knowledge.
- Thorough knowledge of certification codes (DNV-GL and BV rules).
- SABELLA : blades.
- DCNS - ocean thermal energy.
- Structure feasibility study SeaRev.
- Tooling studies for MRE components.

Qualifications:

Currently being acquired: EN ISO 9001 - EN 14001

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MECABOR

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

• **Mechanical machining:** very high precision machining

MRE references:

specialized in hydraulic manifolds.

Qualifications:

Acquired: EN ISO 9001

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MRE Contact:

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MECALIA INGENIERIE

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

• **Engineering - Design office:** structural - materials calculations, mechanics, tooling - relocation studies

Qualifications:

Currently being acquired: EN ISO 9001

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MECANIQUE DE PRECISION CUGANDAISE

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

• **Mechanical machining:** very high precision machining, surface treatment

Qualifications :

Currently being acquired: EN ISO 9001 - EN 14001

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MOJO MARITIME FRANCE SAS

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

- **Maritime services:** charter, offshore cable laying, technical assistance, planning and project management
- **Engineering - Design office:** project management, project management support, structural - materials calculations, mechanics, energy

MRE references:

Mojo Maritime has carried out numerous installations for tidal and wave power technology developers, as well as offshore installations in the oil and offshore wind turbine sectors.

Services offered:

- Project planning and management.
- Heavy lifting operations.
- Underwater operations.
- Marine construction.
- QHSE management.

Qualifications:

Acquired: EN ISO 9001 - EN 14001

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MRE Contact:

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MUEHLHAN

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

- **Coating - Surface treatment:** surface treatments, paint on composite, technical coating - special coatings, anti-corrosion

MRE references:

- MUEHLHAN is the leader in coating on onshore and offshore wind turbine masts in Denmark and Europe.
- Coating: ALSTOM Haliade prototype jacket.
- Offshore electrical sub-station for DONG Energy.
- Girassol HVAC module for TOTAL / SAIPEM.

Qualifications:

Acquired: EN ISO 9001 - EN 14001 - OHSAS - MASE

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NANFOURMA

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

- **Industrial equipment manufacturing:** hydraulics
- **Equipment maintenance:** hydraulics
- **Engineering - Design office:** hydraulics expertise and ship check on hydraulic installations (onshore, on platform, on vessel)

MRE references:

- Official PARKER DENISON integrator and official PARKER "Condition Monitoring" dealer.
- Intervention on very high pressure hydraulic generator used for the assembly of the ALSTOM Haliade 150.
- Hydraulic test bench for wave energy system (Client DCNS).
- Hydraulic generator for wave energy system (SIREHNA).

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NAULEAU

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Metal Construction	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Surface treatment - Coating	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Mechanical and electromechanical components	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	Cast parts	Offshore installations		Waste treatment	
Environmental Impact Studies	HVAC - Air conditioning - pressurization	Electrical connection			
	Power electronics - Command-control systems	Transport - Handling - Port services			
	Instrumentation - Monitoring				
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

- **Special machinery:** manufacturing - transformation process
- **Production of industrial equipment:** mechanical welding, machining, laser cutting.
- **Engineering - Design office:** project management, project management support, structural - materials calculations, manufacturing - transformation processes, mechanics, tooling

MRE references:

Production of ferry for STX.

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NATURAL POWER

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Metal Construction	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Surface treatment - Coating	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Mechanical and electromechanical components	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	Cast parts	Offshore installations		Waste treatment	
Environmental Impact Studies	HVAC - Air conditioning - pressurization	Electrical connection			
	Power electronics - Command-control systems	Transport - Handling - Port services			
	Instrumentation - Monitoring				
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

- **Engineering - Design office:** project management assistance, energy, technical audits
- **Maritime Services:** technical assistance

MRE references:

- MRE France: Development Assistance, Expertise in wind energy (A01-2).
- Technical Audits (wind, tidal energy).
- Ornithological expertise, impact studies.

Qualifications:

Acquired: EN ISO 9001 - EN 14001 - OHSAS

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MRE Contact:

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NAVALU

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components Cast parts	Onshore assembly at dock Foundations	Support Vessels	Insurance	
Resource measurements	HVAC - Air conditioning - pressurization	Offshore installations		Bank - Financing	
Wind - Wave - Current Measurements	Power electronics - Command-control systems	Electrical connection		Waste treatment	
Environmental Impact Studies	Instrumentation - Monitoring Hydraulics - Pneumatics High and Low Voltage Electricity	Transport - Handling - Port services			

Activity:

• **Shipyard:** aluminium, superstructures

MRE references:

Construction of a catamaran dedicated to the maintenance of offshore wind farms: 4 engines, 4 shaft lines, 100% French construction.

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NEREIS ENVIRONNEMENT

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components Cast parts	Onshore assembly at dock Foundations	Support Vessels	Insurance	
Resource measurements	HVAC - Air conditioning - pressurization	Offshore installations		Bank - Financing	
Wind - Wave - Current Measurements	Power electronics - Command-control systems	Electrical connection		Waste treatment	
Environmental Impact Studies	Instrumentation - Monitoring Hydraulics - Pneumatics High and Low Voltage Electricity	Transport - Handling - Port services			

Activity:

• **Engineering - Design office:** project management support

MRE references:

Studies of impact of bottom-mounted and floating wind farms on the fishery resource.

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OCEA S.A.

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

- **Shipyard:** aluminum, superstructures

MRE references:

- Today, OCEA S.A. is one of the pioneers in aluminum shipbuilding and a major industrial aluminum producer.
- OCEA S.A. offers a full and competitive range in shipbuilding with performance specifically tailored to vessel use.

Qualifications:

Acquired: EN ISO 9001

Currently being acquired: EN 14001

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OYA VENDÉE HÉLICOPTÈRES

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

- **Logistics provider:** air transport

MRE references:

Installation and removal of Lidar and aerial views.

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PECOT

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

- **Sheet metal work:** medium and large boilermaking, stainless steel, precision sheet metalwork, thick sheet metal, structural steel, steel joinery
- **Manufacturing of lifting equipment:** cradles, commissioning - tests, spreaders

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PILGRIM TECHNOLOGY

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

- **Special machinery:** robotics
- **Engineering - Design office:** specific development

MRE references:

We offer a drone to inspect wind turbine blades as an onshore and offshore maintenance decision-making tool.

Contact :

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44470 Thouaré-sur-Loire

MRE Contact:

HAUTE Anne-marie
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Tel. +33 (0) 240 69 85 41

PRIMEGPS

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

- **Maritime services :** offshore cable laying

Contact :

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 Tél. +33 (0) 240 57 37 20
 Parc Maison Neuve - 6, rue Marcel Dassault
 44980 Sainte-Luce sur Loire

Contact EMR :

HAMELIN Olivier
 olivier.hamelin@primegps.fr
 Tél. +33 (0) 240 57 37 20

PRINCIPIA SAS

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

- **Engineering - Design office:** project management support, structural - materials calculations, mechanics, naval architecture and MRE support vessel design, transport engineering and installation, digital simulation (structure, hydrodynamics, cfd, installation), development and sale of engineering software (deeplines wt, isymost/nso), foundation design, anchoring. references: DCNS, EDF EN, DONG, ALSTOM, SHL, ACCIONA, A2SEA, FRED OLSEN FOUNDATION, CT OFFSHORE.

MRE references:

- Engineering, foundations for bottom-mounted wind turbines, offshore wind turbine floats.
- Ocean thermal energy, cable stability, service vessel.
- Development of an aero/hydro coupling software package.

Qualifications:

Acquired: EN ISO 9001

Contact :

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 44300 Nantes

MRE Contact:

LE BUHAN Philippe
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PSM

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

- **Mounting - Assembly:** hydraulics, pneumatics, electrical - electronic cabling, mechanics
- **Integration of industrial equipment:** LV - HV equipment (boxes,...), hydraulics, electricity
- **Equipment maintenance:** electromechanics

MRE references:

As part of a group, we are involved in the installation of the HUB terminal at the SEM-REV site, to connect ocean thermal energy demonstrators.

Qualifications:

Currently being acquired: EN ISO 9001 - MASE

Contact :

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MRE Contact:

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QUASAR CONCEPT

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

- **Industrial equipment manufacturing:** automation, instrumentation - regulation, power electronics, command-control systems
- **Engineering - Design office:** tooling, energy, test and measurement bench

MRE references:

Design and production of control equipment and UPS inverter tests.

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MRE Contact:

CRAIPEAU Hervé
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QOS ENERGY

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

- **Equipment maintenance:** real-time communication, electromechanics, energy monitoring
- **Engineering - Design office:** project management assistance, energy, energy monitoring

Contact :

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16, rue de Bretagne
44240 La Chapelle-sur-Erdre

MRE Contact:

BELLET Jean-Yves
jybellet@qosenergy.com
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ROLLIX

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

- **Mechanical machining:** large-dimension machining, large-dimension assembly, very high precision machining, surface treatment
- **Engineering - Design office:** structural - materials calculations, mechanics

MRE references:

World MRE leader for the design and supply of slewing rings.

Qualifications:

Acquired: EN ISO 9001 - EN 14001 - OHSAS

Contact :

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MRE Contact:

CHARRON Nicolas
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S2IB

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

- **Engineering - Design office:** project management, project management assistance, structural analysis - materials, energy

MRE references:

63kV substation works contractor for EDF EN wind farm.
Reference at EDF EN.

Qualifications:

Acquired: EN ISO 9001 - MASE

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MRE Contact:

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SACMO

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

- **Mechanical machining:** large-dimension machining, large-dimension assembly, very high precision machining
- **Engineering - Design office:** project management, project management support, structural - materials calculations, manufacturing - transformation processes, mechanics, tooling
- **Sheet metal work:** large and medium-scale sheet metal work, stainless steel, plates, special steels

MRE references:

Acquired: EN ISO 9001
Currently being acquired: EN 14001

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MRE Contact:

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SDEI OUEST

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components Cast parts	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	HVAC - Air conditioning - pressurization	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	Power electronics - Command-control systems	Offshore installations		Waste treatment	
Environmental Impact Studies	Instrumentation - Monitoring Hydraulics - Pneumatics High and Low Voltage Electricity	Electrical connection Transport - Handling - Port services			

Activity:

• **Engineering - Design office:** project management, structural - materials calculations, mechanics

MRE references:

Supplier for Watt and Sea tidal power.
Supplier Defontaine Rollix.

Qualifications:

Currently being acquired: EN ISO 9001

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MRE Contact:

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SDI SERVICES

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components Cast parts	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	HVAC - Air conditioning - pressurization	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	Power electronics - Command-control systems	Offshore installations		Waste treatment	
Environmental Impact Studies	Instrumentation - Monitoring Hydraulics - Pneumatics High and Low Voltage Electricity	Electrical connection Transport - Handling - Port services			

Activity:

- **Coating - Surface treatment:** surface treatment, composite painting, technical paints - Special coatings, anti - corrosion
- **Equipment maintenance:** electromechanics, burners
- **Engineering - Design office:** prime contractor, project management assistance, manufacturing process - transformation, energy

Contact :

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53600 Evron

MRE Contact:

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SEBS

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

- **Sheet metal work:** stainless steel, fine sheet metal work, plates, special steels, steel structures, steel joinery

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MRE Contact:

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SEE GALLAS

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

- **Sheet metal work:** large and medium-scale sheet metal work, metallic structures
- **Equipment maintenance:** small sheet metal work
- **Industrial equipment manufacturing:** conveyors

Contact :

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MRE Contact:

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SEREO

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

- **Engineering - Design office:** project management support, energy
- **Industrial equipment integration:** automation, instrumentation - regulation, command-control systems

MRE references:

Studies and production of a innovative floating wind turbine demonstrator SEREO (bi-rotor concept associated with a SPAR floating structure).

Contact :

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MRE Contact:

LAFFITTE Olivier
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SHERPA ENGINEERING

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

- **Engineering - Design office:** mechanics, energy, hydraulics, energetics, thermal...

MRE references:

Sherpa Engineering is a supplier of innovative solutions in requirements, simulation, modeling, and multi-physics control systems management in automatic and automation.

Qualifications:

Acquired: EN ISO 9001

Contact :

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MRE Contact:

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SHIPELEC

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

• **Industrial equipment integration:** automation, LV - HV equipment (boxes...), HVAC, command-control systems, electricity
Naval and industrial electricity
Motor winding and trade
Automation

Contact :

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MRE Contact:

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SOGEBRAS

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

• **Port logistics supplier:** exceptional transport, heavy and outsize packages, international logistics, handling, vessel consignment, maritime agency, storage, transit and customs.

MRE references:

Port operations for the ALSTOM Haliade project (Saint-Nazaire-Le Carnet-44).

Qualifications:

Acquired: EN ISO 9001

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STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

- **Coating - Surface treatment:** surface treatments, paint on composite, technical coating - special coatings, non-destructive testing, anti-corrosion, waterproofing

Qualifications:

Acquired: EN ISO 9001

Contact :

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MRE Contact:

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STX FRANCE

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts HVAC - Air conditioning - pressurization	Foundations Offshore installations		Bank - Financing	
Wind - Wave - Current Measurements	Power electronics - Command-control systems	Electrical connection		Waste treatment	
Environmental Impact Studies	Instrumentation - Monitoring Hydraulics - Pneumatics High and Low Voltage Electricity	Transport - Handling - Port services			

Activity:

- **Industrial equipment manufacturing:** automation, instrumentation-regulations, low and high-voltage equipment, HVAC, power electronics, instrumentation and control, hydraulics, fire prevention and fighting, electricity, project management
- **Integration of industrial equipment:** automation, instrumentation-regulation, low and high-voltage equipment, HVAC, power electronics, instrumentation and control, hydraulics, fire prevention and fighting, electricity, project management
- **Small industrial metal work - Pipe work:** pipes
- **Coating - Surface treatment:** surface treatment, composite painting, special coatings, technical paints, non destructive testing
- **Shipyard:** aluminium, medium and large boiler works, superstructures
- **Mounting - Assembly:** hydraulics, pneumatics, electric-electronic wiring, mechanics

MRE references:

- Onshore jacket for Haliade offshore wind turbine (Alstom).
- Offshore electrical station for Westermost Rough, UK. Topside, jacket and piles.
- Barge of installation for tidal turbines.

Qualifications:

Acquired: ISO 9001 – OHSAS 18001 – MASE

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STX FRANCE SOLUTIONS

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts HVAC - Air conditioning - pressurization	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	Power electronics - Command-control systems	Offshore installations		Waste treatment	
Environmental Impact Studies	Instrumentation - Monitoring Hydraulics - Pneumatics High and Low Voltage Electricity	Electrical connection Transport - Handling - Port services			

Activity:

- **Shipyard:** aluminum, large and medium-scale sheet metal work, superstructures
- **Sheet metal work:** large and medium-scale sheet metal work, fine sheet metal work, plates, special steels, metallic structure, steel joinery
- **Engineering - Design office:** structural - materials calculations, manufacturing - transformation processes, mechanics, tooling, energy

MRE references:

- Design and fabrication of a wave turbine prototype.
- Design and fabrication of technical modules for a power plant.
- Design of complex installations for offshore wind farms.
- Development of offshore foundations.
- Development of a standard of offshore electrical substation.

Qualifications:

Acquired: EN ISO 9001 - EN 14001 - OHSAS

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TECHNI INDUSTRIE

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts HVAC - Air conditioning - pressurization	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	Power electronics - Command-control systems	Offshore installations		Waste treatment	
Environmental Impact Studies	Instrumentation - Monitoring Hydraulics - Pneumatics High and Low Voltage Electricity	Electrical connection Transport - Handling - Port services			

Activity:

- **Sheet metal work:** medium and large-scale sheet metal work, plates
- **Mechanical machining:** large-dimension machining, large-dimension assembly, surface treatment
- **Industrial equipment manufacturing:** manufacturer of rail bogies

MRE references:

Capacity to produce series of complex mechanically welded products. Manufacturer of the HELIPAD structure for the ALSTOM WIND company.

Qualifications:

Acquired: EN ISO 3834 - EN ISO 9001

Contact :

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TE-DEUTSCH

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
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Resource measurements	Cast parts	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

• **Industrial equipment manufacturing:** electrical and optical connectors

Qualifications :

Acquired: EN ISO 9001 - EN 14001 - OHSAS

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MRE Contact:

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VALEMO

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
Resource measurements	Cast parts	Foundations		Bank - Financing	
Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

• **Equipment maintenance:** embedded computer, braking system, real-time communication, electromechanics, monitoring and operations

MRE references:

O&M on mast for offshore measurements at Fécamp.

Technical assistance on the SEM-REV test site.

Contribution to Call for Interest on pilot tidal power farms.

Qualifications:

Acquired: EN ISO 9001 - EN 14001

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VALEOL SAS

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
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Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

• **Logistics provider:** facility management

Qualifications :

Acquired: EN ISO 9001 - EN 14001

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MRE Contact:

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VALOREM

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
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Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
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Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

• **Engineering - Design office:** project management support, energy, electrical engineering

MRE references:

Electrical technical assistance on the SEM-REV test site.
 Contribution to Call for Interest on pilot tidal power farms.

Qualifications:

Acquired: EN ISO 9001 - EN 14001

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VALREA SAS

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
Preliminary - Contextual Studies	Composites Metal Construction	Infrastructures - civil works	Monitoring - Safety	Quality control - Safety - Certification	
Geotechnical - Geophysical studies	Surface treatment - Coating	Drilling - Seabed preparation	Operations and maintenance	Human Resources - Training	
Socio-industrial studies	Mechanical and electromechanical components	Onshore assembly at dock	Support Vessels	Insurance	
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Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

- **Engineering - Design office:** prime contractor, project management assistance, energy

MRE references:

SEENEHO project electrical engineering (partner).

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VPS VISSERIE PRODUIT SERVICE

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
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Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

- **Tool-maker:** small tools
- **Small industrial metal work - Pipe work:** sanitation, cold

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MRE Contact:

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 Tel. +33 (0) 251 05 71 36

WPD OFFSHORE FRANCE SAS

STUDIES	COMPONENTS AND SUB-ASSEMBLIES FOR MRE EQUIPMENT	INSTALLATION AND LOGISTICS	OPERATIONS / MAINTENANCE	RELATED SERVICES	DISMANTLING
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Wind - Wave - Current Measurements	HVAC - Air conditioning - pressurization	Offshore installations		Waste treatment	
Environmental Impact Studies	Power electronics - Command-control systems	Electrical connection			
	Instrumentation - Monitoring	Transport - Handling - Port services			
	Hydraulics - Pneumatics				
	High and Low Voltage Electricity				

Activity:

- **Engineering - Design office:** energy, project management for the development, construction and operation of offshore wind farms

MRE references:

- Winner of the tender n°2011/S 126-208873 for the installation of offshore wind turbines on the Fécamp and Courseulles-sur-Mer sites, in partnership with EDF EN and Dong Energy.
 - Construction of the first offshore wind farm in Germany (Baltic1). 2 farms under construction (576 MW) and 3 under contract finalization (1,110 MW).
 - 4 other projects authorized (2,100 MW)
- 6,400 MW in offshore development including 2,500 MW in France.

Contact :

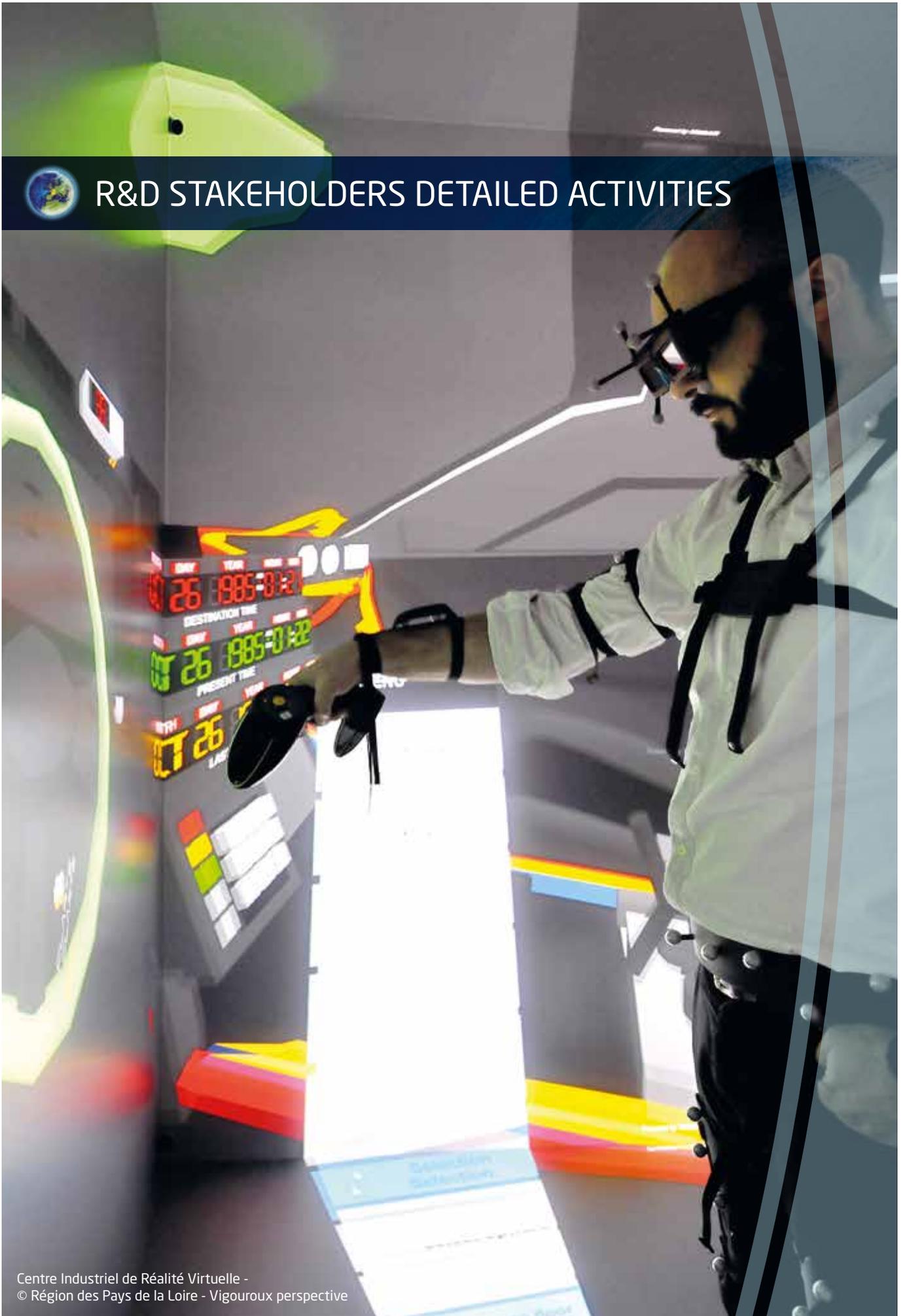
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R&D STAKEHOLDERS DETAILED ACTIVITIES



Centre Industriel de Réalité Virtuelle -
© Région des Pays de la Loire - Vigouroux perspective



The main MRE stakeholders for research and innovation in the Pays de la Loire

WEST ATLANTIC MARINE ENERGY CENTER

A collective regional strategy for research, training and innovation

After considerable collective discussions at the initiative of the Pays de la Loire Region to boost the regional marine renewable energy sector and enhance its visibility, a common strategy was defined by research, training and innovation stakeholders. Based on industrialists' needs, this strategy determines the objectives in the medium term:

- **Take leadership in bottom-mounted wind turbines, particularly in extreme conditions**, and accelerate the transition from fixed to floating structures.
- **Take a lead in less mature MRE technologies**, such as tidal power, ocean thermal energy and wave energy.

The clearly stated ambition is **to better structure and make more attractive the offer of professionals in the sector, at the regional and international level.**

A road map (2015-2020) defines the way forward, the means and the actions to implement, with each stakeholder (higher education establishments, research organizations, several local authorities, economic and industrial actors, competitiveness clusters...) committing in their area of expertise.

This approach is carried by the École Centrale de Nantes with the University of Nantes, the EMC2 cluster, the IRT Jules Verne, the CARENE, Nantes Métropole and the Pays de la Loire Region.

Contact :

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EMC2

EMC2 ecosystem is the **national leader to advanced manufacturing for marine structures:**

- **Standard setters in the industry** (specifiers and SMEs, including Bénéteau, DCNS, STX, Alstom, HydrOcean, Multiplast...)
- **Excellent training and research in the fields of hydrodynamics, materials and mechanics at engineering schools** like Art et Métiers Paritech Angers, Ecole Centrale de Nantes, Ecole des Mines de Nantes, Institut des Matériaux de Nantes...
- **Research Institute** (IRT Jules Verne) and **technological platform** (Technocampus Ocean)
- **A collaborative innovation process:** nearly €180 million invested over the past ten years in R&D projects related to advanced manufacturing technologies for ship building and marine structures

Contact :

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IRT JULES VERNE

The Jules Verne Technological Research Institute is the only one in France that develops **advanced manufacturing technologies for shipbuilding and marine structures industries using a multi-industry approach**. Its research programme focuses more particularly on the following aspects:

- Modeling and simulation and fluid-structures interactions
- Advanced manufacturing processes and assembly (robotized welding)
- Enhanced the performance (durability, corrosion, lighter structures)

35 % of the budget of research is dedicated to shipbuilding and marine structures industries

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TECHOCAMPUS OCEAN

Technocampus Ocean, **new technological platform dedicated to marine structures and metallic materials**, will be operational in July 2015:

- Offer pooled resources (including equipment, personal and related services at a 17 000 m² site)
- Co-locate companies and academics research teams (DCNS, HydrOcean, Ecole Centrale de Nantes, ...)
- Encourage interdisciplinary approach, collaborative R&D and technology transfer
- Cover activities from basic research to pre-industrialization in the field of manufacturing for shipbuilding and MRE

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LE FLOCH Hélène
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TECHOCAMPUS SMART FACTORY

Technocampus Smart Factory with its **industrial center for virtual reality (CIRV), dedicated to the industry digitalization**, helps shipbuilding and marine industries to appropriate digital tools. It

- Develops virtual reality applications in all stages of the industrial value chain (from design to production)
- Offers shared technological equipment at the cutting edge ("5-sided CAVE", 2 collaborative "CAD-Walls", virtual reality helmets)
- Provides customized service solutions

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JULES VERNE MANUFACTURING VALLEY

The Jules Verne Manufacturing Valley is the **expert ecosystem for French manufacturing**, exerting its influence from Nantes and the Pays de la Loire region. It centralizes industrial skills and key academics, it develops collaborative intelligence, it associates innovation with growth, it is leading to the industry of tomorrow.

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The competitiveness cluster for the management of electrical and thermal energy

S2E2 contributes to the emergence of **new technological solutions and new products and services in the area of energy efficiency, renewable energy and smart grids.**

It aims to promote the competitiveness of its companies in the Centre-Val de Loire, Pays de la Loire and Limousin regions, by encouraging collaboration between companies and laboratories in the form of technological innovation projects, whose benefits are growth drivers for these companies in their markets.

One of S2E2's 5 strategic areas of activity is MREs: energy production, connection of MRE to the electricity grid, production forecasts, intelligent energy management, storage. By associating transversal skills, the cluster facilitates the integration of MRE in the overall energy mix.

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POLE MER BRETAGNE ATLANTIQUE

Develop the maritime economy and employment through innovation

The action of the Mer Bretagne Atlantique competitiveness cluster is based on the virtues of working in networks, with collaboration between companies and research centers to develop innovative collaborative projects in 6 strategic business activities: maritime safety and security, boats and sailing, marine energy and mineral resources, marine biological resources, coastal environment and development, port infrastructures and maritime transport.

Since its creation in 2005, the Cluster has labeled 214 innovative projects (December 2014) representing an **overall R&D budget of nearly €720 M** and leads the dynamic of a network of nearly 350 members. As a support structure, it promotes the creation of collaborative projects, accompanies project carriers in the search for partnerships and financing and promotes innovative products and services from labeled projects and their access to markets.

Contact :

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ÉCOLE CENTRALE DE NANTES

For more than 20 years, Centrale Nantes has resolutely turned towards marine renewable energy, in areas such as **ocean engineering, naval architecture and construction, the harnessing of energy from the oceans** (wind, waves, current), **structural calculations, geotechnics, composite materials, robotics** (drones), **command-control systems...** via the LHEEA, GeM and IRCCyN laboratories.

Centrale Nantes researchers are able to address these issues by implementing digital and experimental approaches in a complementary way. This translates by the implementation of exceptional experimental means, such as the oceanic basins, unique in Europe, **the SEM-REV offshore test site**, and the use of powerful calculation means. Centrale Nantes researchers address these thematic topics from upstream development up to the transfer to industrial actors, as part of suitable partnerships.

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CEA TECH

CEA Tech, the CEA's (French Atomic Energy and Alternative Energy Commission) technological research cluster, brings together **4,500 engineer-researchers dedicated to innovation in support of industry**. It develops and disseminates key generic technologies for all types of companies and industrial sectors. In the area of MRE, CEA Tech works, in particular, on:

- Innovative energy storage systems based, notably, on a high power and large volume test capability.
- NDT using robotized X tomography treating large-dimension and large-thickness parts.
- Support for cobotic type gestures, for the production of large structures.
- Instrumentation for the monitoring and characterization of large structure aging.
- Analysis and vectorization of massive quantities of data for monitoring systems.

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ENSM

ENSM's research topics are: energy production, environmental protection and safety and security.

The establishment is a partner for collaborative projects within these themes. Thus, the ENSM is well positioned to reach the common aims of most of the major engineering schools in the area of research:

- Address the current major societal challenges such as energy, mobility, information and the environment.
- Propose strategic visions to the socio-economic partners. Research work will be carried out in close collaboration with local authorities via bilateral or collaborative partnerships.
- Establish research collaborations that offer numerous possibilities nationally and internationally with mobility offers for students such as internships or academic exchanges.

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CSTB

An independent public body supporting innovation in the the building sector, the Centre Scientifique et Technique du Bâtiment (Center for Scientific and Technical Building Studies) (CSTB) carries out **four key activities - research, expertise, assessment, dissemination of knowledge** – that allow it to meet the sustainable development objectives for construction projects, buildings and their integration in neighborhoods and cities.

Amongst its equipment, the **Jules Verne climatic wind tunnel** allows full-size testing of the behavior of buildings and construction elements, as well as that of vehicles and transport materials. This more than 5 000 m² facility is **capable of recreating all climatic conditions and thus offer a wide range of studies, in particular for the MRE sector.**

Contact :

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Mechanical innovation

At the crossroads of research and industry, CETIM, "Carnot" labelled Technological Institute, is the French mechanics expertise centre. Mechanics R & D Tool for nearly 6,500 companies (800 in Pays-de-la-Loire), there are 700 people, including more than 2/3 engineers and technicians, for € 113 million in revenue. The centre multiplies its activities with a network of scientific and technical partners. CETIM ensures a strong presence close to its national customers, its industrial response capabilities extend worldwide, particularly in Francophone regions. R & D Partner of major specialized players, CETIM has a comprehensive and multidisciplinary offer to transform and to implement scientific knowledge in applications supporting industry.

MRE Contact:

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IFSTTAR

IFSTTAR is a public research institute which produces, distributes and promotes knowledge and new technologies in the fields of transport, infrastructure, natural hazards and the city.

Marketable skills in the field of MRE:

- The selection and development of environmental materials (including innovative materials)
- Knowledge of degradation modes
- The selection of sustainability indicators
- The selection and development of methods for determining indicators (destructive or not)
- The breakdown in terms of monitoring and maintenance (SHM)

MAST (Materials and Structures) department: seabed concretes (constitution and sustainability indicators), metallic materials and structures (fatigue and corrosion, including cables), cables, composites, bonding.

GERS Department (Geotechnics Environment Natural Hazards and Earth Sciences): Soil Mechanics, soil-structure interaction, erosion, sedimentation, geophysical, NDT.

COSYS Department: monitoring, detection, fault location, sensor networks, databases, dedicated web-related applications, instrumented composites.

AME Department: environmental acoustics (digital models and experimental identification).

Remarkable facilities: geotechnical centrifuge, cable fatigue bench, semi-anechoic chamber, mixing plant, and more

Projects in the field of MRE:

- Fondeol2: degradation modes of the foundations of metal Jacket wind turbines, SHM
- Surffeol: monitoring of offshore wind turbine foundations
- Oceagen: qualification of floating wind turbine anchor cables
- Everest: instrumented composite blades

Main activities:

Research - Expertise - Tests - Technology Certification - Innovation Transfer

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Communication Contact:

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PÔLE ACHATS SUPPLY CHAIN ATLANTIQUE PASCA

The Atlantique Purchasing Supply Chain (PASCA) cluster **brings together and puts into contact economic, academic, and institutional actors around Purchasing and Logistics issues**. Its main aim is to develop the competitiveness of companies in the territory by mobilizing the lever of innovation.

Following this perspective, the PASCA - with the main stakeholders of the MRE sector - has undertaken actions both on the **management of connected production processes** (shared production sites, pooling of human resources) and on **flow management** (transport, Logistics Hub simulation) leading it to offer innovative, successful and sustainable organizational models. Thus, it actively participates in the emergence of a durable MRE sector in the Pays de la Loire.

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SEM-REV

SEM-REV is the **1st European multi-technology offshore test site** operated by Centrale Nantes. It was developed for the **testing, in real high sea conditions**, of marine energy recuperation systems: wave energy, floating offshore wind turbines, mixture of both technologies...

The only site of its kind in France to obtain all the authorizations, and the only one in Europe to be connected to the electrical grid, it is a **turnkey tool for all industrialists in the MRE sector**.

SEM-REV is an essential complement to the means at the Centrale School of Nantes, and in particular the CNRS-labeled Laboratory of Hydrodynamics, Energy and Atmospheric Environment (LHEEA), to assist technology developers in all design stages, from the initial idea to the industrial prototype stage.

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The R&D partner for the MRE sector

A major cluster for higher education and research in the Great West, the University of Nantes has made transdisciplinarity the central axis of its project, and considers that the next scientific revolutions will only be possible by merging knowledge, skills and expertise.

In the MRE area, biologists, physicians, economists, geographers and lawyers (a total of 120 researchers) **currently collaborate on research and innovation projects**. There are numerous areas of expertise, from pure technological research to human and social sciences:

- durability of materials,
- instrumentation of structures,
- reliability of wind turbine foundations,
- bio-colonization,
- energy storage and transportation,
- economic assessment of MRE,
- marine space planning,
- legal regime for dismantling,
- social acceptability and use conflicts,
- ...

11 research laboratories (out of 63 in the University), and 5 expertise cells (CAPACITES, promotion sector for the University) are directly mobilized for research and innovation in support of MRE:

- **GeM** (Research Institute in civil and mechanical engineering) : aging and monitoring of materials
- **IREENA** (Nantes Atlantique Research Institute for Electrical Energy) : energy and networks
- **LTN** (Nantes Thermokinetics Laboratory) : ocean thermal energy
- **IRCCyN** (Nantes Research Institute for Communications and Cybernetics) : process robotization
- **CDMO** (Center for Maritime and Ocean Law): legal and conflict expertise
- **LEMNA** (Nantes Atlantique Laboratory for economics and management) : maritime economy and storage
- **MMS** (Sea, Molecules, Health): biological and bio-colonization impacts
- **LETG** (Coast, Environment, Remote Detection, Geomatics): management of maritime spaces
- **LPGN** (Nantes Laboratory of Planetology and Geodynamics) : sediment transport, observations
- **IMN** (Jean Rouxel Institute of Materials): storage and sensors
- **IHT** (Institute of Man and Technology)
- **GEPEA** (Laboratory for Process Engineering - Environment - Agro-food) : biomass

- **Cellule Mer (Sea Cell)** (Measurements, Expertises and Recommendations in the area)
- **IXEAD** (Expertise cell in port and offshore engineering)
- **ITIS** (Expertise cell in surface treatment of materials)
- **IRÉALITÉ** (To communicate with immediacy!)
- **ERIMAT** (Team of Industrial Relations for Materials)

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For more information on marine renewable energy
in Pays de la Loire, go to

www.mre-paysdelaloire.com

Companies and economic development stakeholders in the Pays de la Loire
are mobilized to provide services for the entire marine renewable energy value chain.



L'Agence régionale - Pays de la Loire Territoires d'Innovation works
on behalf of the Pays de la Loire region, to structure and promote
the regional MRE sector.