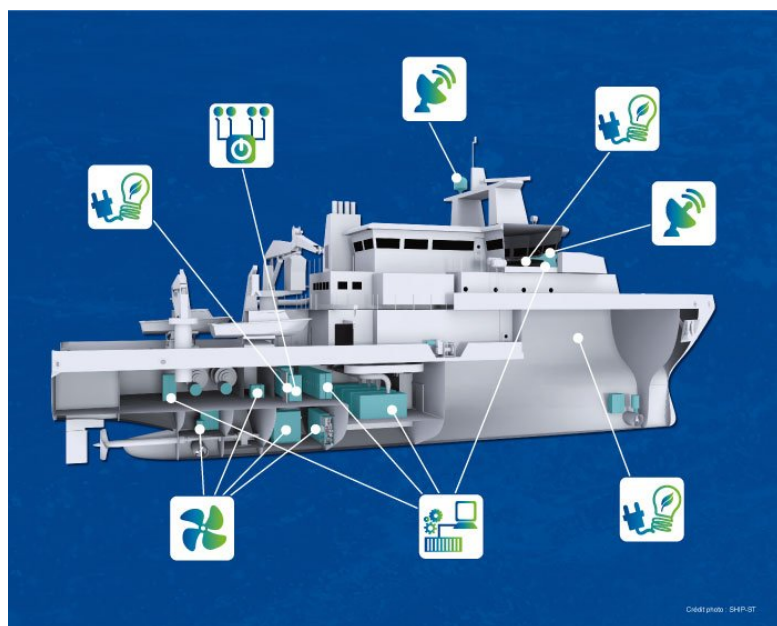


## OUR MARINE APPS



### Electric and hybrid propulsion systems, energy management, production and storage

make Barillec marine a major European player in the energy sector, propelling solutions for ship owners and shipyards.

Barillec marine provides turnkey solutions that deliver **energy efficiency, emission reduction and fuel savings**.

Our company presents a global offer **from project engineering to sea trials**.

Based in France, Vietnam and Réunion island, Barillec marine offers a wide range of services, repair and maintenance and also provides spare parts.

150 technicians and engineers are available worldwide for repair, refit or new constructions.

**Engineering, systems and services form a set of integrated solutions under the concept of « Barillec marine apps » .**

## ENERGY MANAGEMENT

### Production, distribution, management, storage

- Innovative energy management systems
- Development of smart, autonomous and energy efficient systems
- Energy optimization
- Energy conversion equipment: storage, shore power, propulsion

... PMS, the solution for energy optimization of your vessel



[https://youtu.be/yLp2p\\_d4Xgg](https://youtu.be/yLp2p_d4Xgg)

## **ELECTRIC AND HYBRID PROPULSION**

### **Electric motors on variable speed :**

- Electric motors up to 4 MW
- Main propulsion system driving a shaft line directly or through a gearbox or driving an azimuth thruster
- Auxiliary and transversal propulsion
- Auxiliaries : winches, fans, pumps, etc.

### **Innovative propulsion systems :**

- Electric propulsion
- Hybrid propulsion
- Hydrogen propulsion
- Specific energy storage equipment
- Propulsion Control System (PCS)



<https://youtu.be/oAfgTwlm4g0>

[https://youtu.be/92Bj5n\\_TWC4](https://youtu.be/92Bj5n_TWC4)

## POWER DISTRIBUTION

## SPECIFIC SYSTEMS AND AUTOMATION

### Customized systems for automation and supervision

Controls and monitoring of:

- Propulsion: propeller, clutch, gearbox
- Auxiliary equipment: pumps, fans, valves
- Automation systems specific to the vessel need
- AMS – Alarms and Monitoring System
- Centralization of data

## MARINE ELECTRONIC

### Internal communication systems:

- Intercom, public address, analog or IP type
- Audio and video entertainment systems, Ground/Satellite media reception
- Analog or IP CCTV

### External communication:

- Radio communications – UHF, VHF, BLU...
- Satellite Communications – INMARSAT Fleet, Vsat...
- GMDSS
- Navigation equipment

- Data networks, redundant IP networks
- Voice networks
- Acoustics: sonars, sounders
- Beacons



## ENGINEERING

*... For an optimized, clean and intelligent navigation*

## SERVICES

### Equipments and packages

#### Manufacturing in our switchboards factory:

- Switchboards until 10 000 A
- Distribution and control panels
- Machine, wheelhouse and communication control plates
- Refrigeration skid for propulsion switchboard
- Customized or standard according to your classification needs : BV, LR, DNVGL...

#### Providing comprehensive electrical packages:

- Design
- Fabrication
- Delivery of the full equipment for the electrical systems onboard

### Onboard installation and coordination

#### Installation:

- Anticipating and controlling the specific requirements of the marine environment
- Cabling and connecting the full electrical installation

#### Coordination:

- Managing your project autonomously with our skilled technicians
- Managing and coordinating installations with local partners or yard electricians

### Commissioning

#### Implementation:

- Verifying the conformity connections
- Checking the equipment
- Classification control and
- Commissioning, harbour

#### Sea trials:

- Checking operational c
- Full validation of equipm





#### Managing your project from design to turnkey delivery

- Analysis and expertise
- A

#### Studies and engineering of your project

- Design of global or partial solutions
- Design of the networks
- Development
- Validation of the integration and
- Elements



## Refit and maintenance experts

- Managing quickly the trouble shooting and overhauls
- Providing maintenance according to your schedule requirements
- Bringing our expertise for refits
- Providing ISS, in service support

## Spare parts management

### *Right spare, right time, right place:*

- Technical support for adapted solutions
- Sourcing
- Supply-chain management
- Customs facilities

### Spare part :

- Electricity
- Instrumentation and measure
- Control and regulation
- Automation
- Hydraulic and pneumatic

<https://youtu.be/d7LpLHKJQ9A>

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