



OWM
OFFSHORE WINDFARMS MAINTENANCE

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Promoted by



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Introduction

"INGETEAM SERVICE S.A., ELDU S.A., ASAKEN S.COOP. AND PINE" companies have joined forces and created the Group OFFSHORE WINDFARMS MAINTENANCE (OWM), aiming to provide worldwide global services intended for inspection and maintenance of wind farms, both offshore and onshore. This Group is promoted by FORO MARITIMO VASCO, the Cluster which includes all the companies in the maritime sector in the Basque Country, Northern Spain, and other companies belonging to the Cluster are ready to join this Group depending on the characteristics of each project".

Those companies are leaders in each sector (Technology & Electricity, Engineering and Rope Access Solutions) for its capacity, know-

how and experience in Wind Power, Oil & Gas and Civil & Industrial areas and each of them have a team of qualified technicians, technical departments and HSE management.

This union offers a more efficient customer service, know-how and an expanded experience, strengthened by collaboration between companies, "all-in" to facilitate the communication between client-provider, reducing costs and decreasing the reactivity and execution periods, improving significantly the efficiency and safety.

The group offers principally the following services:

1 Preventive maintenance:

- Structures maintenance (NDT, testing, cleaning, painting, welding...).
- Tower and rotor blade inspection and repair.
- Performance improvement device installations.
- Control of the Electrical installations: High & Low voltage, substations, transformers...

2 Corrective maintenance:

- Technical department for finding solutions in a non scheduled damages.
- Emergency stand by team.



ASAKEN S. COOP. is a worldwide Rope Access solutions provider company since 2005, this mainly includes Installation, Inspection, Maintenance and Repair to a full range of industries: Wind Power and Renewables, Onshore and Offshore Oil & Gas, Construction, Industrial and Civil Engineering.

Asaken S.COOP. is formed by 50 qualified technicians and an innovative Engineering department of 12 Engineers. From the very beginning, Asaken has been a values-based organization, we have therefore chosen for a cooperative business model, owned and run by its employees. This ensures a full involvement in the company, which represents our strongest guarantee in the business.

We have aimed for safety, quality and continuous improvement. We choose the best suppliers, get the best materials available and continuously invest in our people training and development to meet the most strict international accreditations.

Asaken S.Coop. is a full operator and trainer accredited by the International Rope Access Trade Association IRATA, the leading worldwide organization for Rope Access.



At ELDU we offer a global energy service to all kinds of companies. We have more than 50 years' experience and can proudly state that we are sector leaders.

We are specialists in electrical operations for high-voltage lines, transformer centers and substations.

We work all over Spain and also abroad: Chile, Argentina, the United States, UK, Brazil, Nicaragua, Venezuela, Mexico, France, Portugal... Wind farms: 1,800 Power Transformers maintenance and performances in over 70 wind farms across Spain, with 900 MW and 800 wind turbines.

Eldu can perform all the assembly and maintenance operations, from start to finish.

- Basic & Detailed Engineering.
- Comprehensive Project Management.
- Purchasing equipment.
- Assembly and commissioning.
- 24-hour breakdown service.
- Thermography.
- Preventive-Corrective maintenance for High Voltage systems: Substations, power transformers, LAATS, LSMT.
- Marking of wind farms (underground lines).
- Protection trials.
- Providing support during operation.



As a leading O&M provider, Ingeteam Service is present across the globe, with particular mention of its presence in the most strategic offshore markets such as the United Kingdom and Germany.

More than 1,500 employees travel all over the world, to cover the operation, maintenance and specialist service requirements of our customers' energy generation plants, in order to ensure maximum output efficiency and, in particular, to maintain optimal plant operating conditions, making it possible to maximise the plant lifespan.

Ingeteam Service has an outstanding record in the provision of offshore services, with experience in work such as commissioning, audits, preventive maintenance campaigns, expert assistance, etc.

Thanks to our extensive experience, Ingeteam Service has become a reputable leader, trusted by the key actors in the international energy sector.

Safety is core to our business. We are a benchmark company with regard to Occupational Risk Prevention and Training, always offering the best service based on the highest standards of quality. This is evidenced by the fact that our training centres are certified by GWO.



Pine, a leading company in electrical installations in Spain with an important international presence, has highly qualified personnel to carry out the electrical projects that require the highest level of demand and specialization in:

- Electrical installations in high voltage and low voltage.
- Instrumentation.
- Telecommunications and Security Systems
- Manufacture of electrical equipment.

PINE OFFERS THE FOLLOWING SERVICES: engineering, management, supply, assembly, commissioning, operation & maintenance, technical assistance

MAINTENANCE IN DIFFERENT SECTORS:

Marine: Electrical maintenance in low voltage and high voltage, onshore and offshore.

Energy: Predictive maintenance, preventive maintenance and corrective maintenance in all medium and high voltage systems, transformation centres, 24/365 service.

Pine carries out the development of Iberdrola's substation maintenance, framework contract awarded since 2014.

Industry: Electromechanical corrective maintenance, preventive - predictive and proactive maintenance of industrial processes.

Telecommunications and Security Systems: preventive and corrective maintenance of infrastructures.

