

Spanish wind energy industry

Proven efficiency



Coedited by:



MINISTERIO
DE INDUSTRIA, TURISMO
Y COMERCIO

IDAE Instituto para la
Diversificación y
Ahorro de la Energía

RENOVABLES MADE IN SPAIN

www.renovablesmadeinspain.es

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Proven efficiency

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List of symbols

	Developer
	Wind Turbine Manufacturer
	Component Manufacturer
	Engineering and Civil Engineering
	Operation and Maintenance
	Consulting
	Finance and Insurance
	Transportation & Logistics
	Technology Centre
	Training
	Other

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It is with pride that, based on the continuous efforts of our businesses, we say that the Spanish wind energy sector enjoys a leadership position and prestige beyond our borders. This success is even more valuable because it is a highly dynamic sector with international competitiveness, for which it is essential to have high quality products, new approaches and business strategies that give our companies differential value.

Our developers, having acquired foreign assets of popularity and expanded their presence in more than thirty countries, occupy high positions in the world's ranking. Our wind turbine manufacturers have increased their production capacity by opening production facilities -inside and outside our country-, and by the acquisition of manufacturing facilities of critical components to ensure their supply chains. Also, they are developing new machinery, looking for innovative solutions and creating strategic alliances.

Moreover, the domestic wind industry consists of a powerful multidisciplinary business network associated with component manufacturing, service and technical support companies, engineering, etc... Many of them were born and developed in parallel to the growth of the sector.

They all have allowed Spain to be a net exporter of wind energy equipment, services and technology, associating the brand "Spain" to cutting-edge technology and to good quality products and services.

Furthermore, Spanish companies keep a clear strategic commitment to R & D, boosting key industrial projects and initiatives for our industry to strengthen its technology leadership status in the medium to long term in all wind energy subsectors, onshore, small wind and offshore. For instance, the high participation of national technicians in a very large number of projects and the level of investment in R & D in the renewable energies sector in recent years have allowed Spain to be one of the European Union countries with higher returns on research renewable programmes, in the context of the 7th Framework Programme. It should also be noted that wind energy investments efforts in R & D are year after year six times higher than the average for other industrial sectors in our country.

This Catalogue of the Wind Sector Companies is published jointly by the Spanish Wind Energy Association (AEE) and the Institute for Diversification and Saving of Energy (IDAE) as an addition to the project for the diffusion of the Spanish technological capacity in the renewable energies sector, «Renewables Made in Spain». We hope it becomes a useful tool to raise awareness of the strength of the businesses and national technology development centres, but also to further empower these companies individually in the difficult situation the market is facing these days.

Alfonso Beltrán García Echaniz
General Director IDAE

(Institute for Diversification and Saving of Energy)

Proven Efficiency

The development of wind energy in Spain is regarded as a model due to many different circumstances; one of them is the fact that the installed capacity at the beginning of 2011 of 20,676 MW is only exceeded by three countries: China, United States and Germany, of much larger population and area. New 1,515.95 MW were installed in 2010, which were the highest increase across the European Union. This development has been steady and regular over the last twelve years thanks to the firm commitment made during the last two decades both by the Government and by a large business sector.

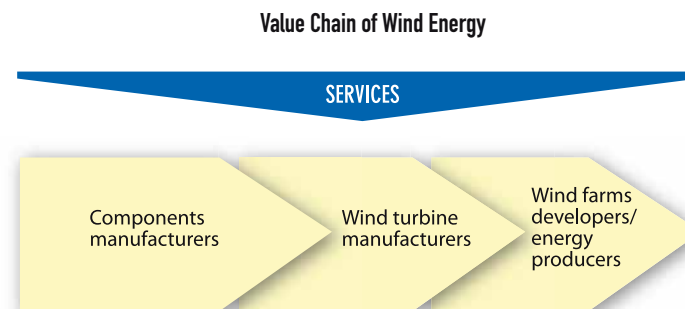
The fact that wind power covered 16.6 percent of the electricity demand in 2010 becomes very important to our country as it is practically an “electrical island” with a very low interconnection level. The effort made by the industry, along with the System Operator to integrate into the grid overcoming some sensitive issues such as the adaptation of the turbines to voltage dips, and achieving that high level of penetration has no comparison in the world and has become a reference.

But, undoubtedly, the most important feature is that the development of wind energy in Spain has been accompanied by the creation of a solid industrial base

with more than seven hundred companies - from large world leaders multinationals to small and medium family businesses- covering the entire value chain, from components and wind turbine manufacturing, engineering and consulting companies to those that provide all services to the farms already in operation.

The value chain of the wind energy industry can be divided into four big subsectors:

- Wind farm developers /energy producers,
- Wind turbine manufacturers,
- Specific components manufacturers (bearings, gear boxes...)
- Other attached services to all phases (engineering and consulting, finance, technological solutions...).



Other values, like having its own technology, a continuous and big effort in R&D -well above the average of the energy sector as a whole- , and, finally, the high qualification of its workers, must be added to the importance of the business value chain and its quantitative assessment.

Indeed, according to the latest edition of the *Macroeconomic Study of the Impact of the Wind Energy Sector in Spain*, published in November 2010, one of the keys to the success of the Spanish model is the level of recognized industry professionals worldwide. This study highlights the industrial base built around wind energy in Spain which employed (directly and indirectly) 35,719 people by the end of 2009. It should also be noted that a large number of the jobs generated by the industry are highly qualified. The structural analysis of the developers and turbine manufacturers' staff shows that the percentage of university graduates is high: 55% in the case of wind farm developers and 49% in the case of wind turbine manufacturers.

The growing interest in obtaining training related to wind energy in our country, as the analysis of the large number of courses and students shows, is proof of the importance of this employment.

These, among other factors, have allowed the Spanish wind power sector companies to undertake international expansion, which makes this sector a re-

ference in the world, not only for the leadership of its major businesses but also because of the massive presence of small and medium companies all over the world where they take their experience, know-how and technology. One of the five major wind turbine manufacturers and two of the top five wind energy operators in the world are Spanish and the sector exported in 2009 worth 2,179 million Euros, more than other traditional sectors in our country such as fishing, leather and footwear.

This business directory, published by the Spanish Wind Energy Association (AEE) with the support of the Institute for Diversification and Saving of Energy (IDAE), includes more than two hundred companies among which are the major wind turbine manufacturers, developers, components manufacturers and companies offering all sort of services for the sector: from resource measuring to maintenance, civil engineering, transport and logistics and installation. What they all have in common is that they belong to the Spanish wind sector and that their efficiency is proven.

José Donoso
President

Spanish Wind Energy Association (AEE)

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Company Presentation

ABB is a global leader in power and automation technologies that enable utility and industry customers to improve their performance while lowering environmental impact.

The ABB Group of companies operates in around 100 countries and employs about 124,000 people. ABB Spain employs more than 2,400 people.

We create value by fulfilling our commitments to our customers, our employees and the communities and societies in which we operate.

Business lines

Power Products:

Power Products are the key components to transmit and distribute electricity. The division incorporates ABB's manufacturing network for transformers, switchgear, circuit breakers, cables and associated equipment, and all the services needed to ensure products' performance and extend their lifespan.



Power Systems:

Power Systems offers turnkey systems and services for power transmission and distribution grids, and for power plants. Substations and substation automation systems are key areas. Additional highlights include flexible alternating current transmission systems (FACTS), high-voltage direct current (HVDC) systems and network management systems. In power generation, Power Systems offers the instrumentation, control and electrification of power plants.

Discrete Automation and Motion:

Provides products, solutions and related services that increase industrial productivity and energy efficiency. Its motors, generators, drives, programmable logic controllers (PLCs), power electronics and robotics provide power, motion and control for a wide range of automation applications. The leading position in wind generators and a growing offering in solar complement the industrial focus, leveraging joint technology, channels and operations platforms.

Low Voltage Products:

This division manufactures low-voltage circuit breakers, switches, control products, wiring accessories, enclosures and cable systems to protect people, installations and electronic equipment from electrical overload. The division further makes KNX systems that integrate and automate a building's electrical installations, ventilation systems, and security and data communication networks.

Process Automation

The main focus of this ABB business is to provide customers with products and solutions for instrumentation, automation and optimization of industrial processes. The industries served include oil and gas, power, chemicals and pharmaceuticals, pulp and paper, metals and minerals, marine and turbocharging. Key customer benefits include improved asset productivity and energy savings.



Company Presentation

ABGAM - SEGULA Technologies Group is an engineering services company with more than 450 professionals working in Staffing and Fixed Price Projects.

ABGAM is based in 9 locations in Spain: Madrid, Barcelona, Vitoria, Zaragoza, Bilbao, Pamplona, Vigo, Valladolid and Puertollano, closed to the main customers.

ABGAM works in Aeronautics, Automotive, Railway, Industry, Energy and other sectors.

Our collaborators are highly skilled: more than 60% are university graduates.

ABGAM - SEGULA Technologies Group offers consulting services and carries out engineering projects in Design, Computing, Engineering and IT Processes.

As a Dassault Systemes Certified Partner in Spain, ABGAM - SEGULA Technologies has a sales and technical team with expert engineers in the use of CATIA, DELMIA, ENOVIA, and 3DVIA tools.

With 6,200 employees, SEGULA Technologies Group is a leading engineering and consulting company present in the outsourcing, R & D & I and high value-added services markets. The Group operates in all the phases of product development (project management, organization, operation and logistics support) for leading European companies at 3 levels:

- Engineering Projects with a commitment to deliver at fixed price and date.
- Consulting Services and Technical Assistance in Engineering and IT.
- Manufacturing.

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Each of these service levels benefits from the Group's extensive experience in industrial consulting and software solutions

SEGULA Technologies Group is present in France and 19 other countries, Spain, China, India, Brazil, Argentina, Germany, Portugal, Romania, Tunisia and the United States among them.

- 450 employees
- Over 60% university graduates
- 9 offices in Spain
- Over 400 customers
- Market driven
- Dassault Systemes Partner
- Product, manufacturing and PLM engineering
- Staffing, Fixed Price Projects and PLM sales.
- Customer and proximity service





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Company Presentation

ACCIONA Energy is a global leader in renewable energies, the largest operator in the world dedicated exclusively to these energy sources. With 20 years' experience in the industry, the Company has significant assets in seven clean technologies – wind, concentrating solar power, photovoltaic, hydropower, biomass, biodiesel and bioethanol – in 12 countries on four continents.

ACCIONA Energy has a broad portfolio of proprietary assets and projects, and also delivers a range of services to a variety of clients. It does all this with a strong, multidisciplinary management team with broad international experience and a highly qualified staff of over 2,000 people.

At the end of 2010, ACCIONA Energy owned 6,270 MW in wind power through 12 countries, and had 639 MW under construction. Additionally, the company had installed 1,472 MW for third parties.

ACCIONA Energy is part of the ACCIONA Group, one of Spain's leading business corporations which operates in infrastructure, energy, water treatment and services in more than thirty countries on the five continents. For more information: www.acciona-energia.com

ACCIONA Energy is part of the ACCIONA Group, one of Spain's leading business corporations. ACCIONA operates in infrastructure, energy, water treatment and services in more than thirty countries on the five continents. ACCIONA is sector leader in the Dow Jones Sustainability Index, and posted revenues of more than €6.5 billion in 2009. The Company has a workforce of more than 30,000 and is quoted on the IBEX 35 blue chip index (ANA.MC). For more information: www.acciona.com

Business lines

ACCIONA Energy is present throughout the entire wind power value chain – its main business – with activities in project development, engineering and construction; wind turbine manufacturing –through ACCIONA Windpower- and operation, energy sales and marketing of CO2 credits.

Data (at 12.31.2010)

- Owned capacity in renewables and cogeneration: 7,587 MW
- Owned capacity in wind power: 6,270 MW
- Owned capacity under construction in wind power: 639.10 MW
- Countries with owned wind farms: Spain, Portugal, Germany, Italy, Greece, Hungary, USA, Canada, Mexico, Australia, India and South Korea.





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Company Presentation

ACCIONA Windpower uses proprietary technology to design wind generators with different models adapted to all wind resource conditions. Its wind turbine technology is grounded in more than 15 years of operational observations made within Acciona Energy's wind farms in varied terrains and climates across the globe. Its turbine design answers the challenges facing project developers and owners today in areas of performance, reliability, safety and cost-of-energy.

The Company has three production plants: two in Spain, in Barásain (Navarre) and La Vall D'uió (Valencia); and one in the United States (West Branch, Iowa). ACCIONA Windpower has another two industrial facilities in Spain: a wind turbine blade manufacturing plant in Lumbier (Navarre), in operation since 2009, and an assembly plant for wind turbine bushings and central axles in Toledo. In seven years ACCIONA Windpower has manufactured a total of 2,370 wind turbines, with a combined capacity of 3,559.5 MW. There are AW wind turbines operating all over the world: Spain, China, South Korea, Australia, Mexico, USA, Canada, Chile, UK, France, Italy, Greece and Poland.

ACCIONA Windpower belongs to the Energy Division of the ACCIONA Group, one of Spain's leading business corporations. ACCIONA operates in infrastructure, energy, water treatment and services in more than thirty countries on the five continents. ACCIONA is sector leader in the Dow Jones Sustainability Index, and posted revenues of more than €6.5 billion in 2009. The Company has a workforce of more than 30,000 and is quoted on the IBEX 35 blue chip index (ANA.MC). For more information: www.acciona.com

Business lines

- Design, assembly, installation, operation and maintenance of wind turbine generators
- Wind turbine blade manufacturing using proprietary technology
- Research and innovation in wind turbines for on-shore and off-shore applications.
- EPC wind power projects for customers

Products

ACCIONA Windpower wind turbine models

Model	Nominal power	Rotor diameter	Wind class	Hub height
AW-1500	1,500 kW	70, 77, 82 m	IECIa, IECIIa+, IECIIa	60, 71.5, 80, 100
AW-3000	3,000 kW	100, 109, 116 m	IECIa, IECIIa, IECIIIa	92, 95.5, 100, 120

Both available in steel or concrete towers

ADES, Aplicaciones de Energías Sustitutivas, S.L.



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Company Presentation

Research and Development Engineering firm dedicated to the design of the latest technological solutions in the energy sector.

Proprietary technology supported by patents extended internationally.

It is committed to research, innovate, patent and implement increasingly advanced features in the world of renewable energies: wind, solar and hydraulic.

Presence in Italy, Greece, Latvia, North America, Latin America, and growing in new markets.

Business lines

- Wind, Solar and Hydro power
- Off-Grid solutions that combine various renewable sources
- Sustainable buildings
- Technology Center for training and technology transfer
- Consultancy and Turnkey services

Products

- Pendular wind turbines from 100 kW to 2 MW
- Small wind turbines on roofs, 3 & 5 kW
- Solar and Wind power integration on roofs, energy supplier bus stops and rotating buildings
- Transportable Power Stations from 10 to 70 kW
- PV and CPV solar trackers

Projets

Solar farms in the European Union

Sinter Project (Intelligent grid stabilizing systems) to the Ministry of Science and Technology of Spain (www.sinter.es)





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In the last years, the relation with our customers does not finish with the PERMITTING. We carry on the execution of part of the projects; we are particularly specialized in the environmental restoration, landscape integration and conservation and maintenance of green areas. Also we obtained the UNE-EN ISO 14001 and 9001 certifications in 2009, so all our activities are developed under the above mentioned operative procedures.

We rely on a human and technical highly qualified team, as well as a wide network around our country, which makes this company a guarantee when it was hired to develop any kind of projects.



Company Presentation

AEMA is a lithe and modern E.C.C. (engineering – consulting - construction) enterprise, which develops its labor fundamentally in the sphere of the Renewable Energies and the Environment. The company initiated his activity in 1999, with its headquarters in Madrid.

With the evolution of the Renewable Energies in Spain, during the second half of the decade 2000/2010, AEMA expanded on the nationwide, with the opening of several delegations located in Castilla – La Mancha, Aragón, Andalucía, Extremadura, Valencia and Castilla y León, extending its business lines and diversifying the human capital. Thanks to this expansion as the result of this new business area, AEMA offers nowadays to its customers a full PERMITTING service, where projects and technical preliminary designs are included, environmental and archeological processings, expropriations, authorizations for waste disposal, affections to the public domain, etc. In this way, we include the technical management of all the licenses needed for the promotion and legalization of the projects.

In the wind sector, AEMA realizes its service dealing with the processing of wind farms, where there are included the implementation of preliminary designs, projects for administrative approval and execution projects of wind farms. We also have experience in almost all the regions with specific legislation on this matter. Our engineering department has designed over 2000 MW of wind power installations since 2003.





Company Presentation

AEROBLADE is a society for the design, manufacture and supply of wind turbine blade at international level. It also provides Technological Transfer through blade licensing agreements.

AEROBLADE, as a part of SYNERGY CORP., has more than 3'900 employees and more than 17 years of experience on the aeronautic field. This experience provides us with an unbeatable position for the fulfillment of our customers' requirements.

Since its creation, the company has made a number of groundbreaking achievements like its own products development or the design of the biggest wind blade ever. Aeroblade offers to its customers:

- Blade Design Engineering
- Manufacturing and Process Engineering
- Mould Design and Manufacturing
- Prototypes Manufacturing
- Product Certification
- Wind Blades Serial Manufacturing
- Internal and External logistic
- Post-Sale Service



Products

Aeroblade is currently working in a wide range of projects such as:

- AB37 for 1,5 MW - 2 MW Turbines CLASS IEC IIA
- AB43 for 1.5 MW - 2.0 MW Turbines CLASS IEC IIIA
- AB45 for 2.0 MW - 2.5 MW Turbines CLASS IEC IIA
- AB47 for 2.0 MW - 2.5 MW Turbines CLASS IEC IIIA
- AB49 for 2.5 MW - 3.0 MW Turbines CLASS IEC IIA
- AB53 for 2.5 MW - 3 MW Turbines CLASS IEC IA
- AB58 for 3.0 MW - 3.5 MW Turbines CLASS IEC IIIA - IA
- AB68 for 5.0 MW - 5.5 MW Turbines CLASS IEC IIIA + IA Typhoon

In addition, Aeroblade is in a condition to offer engineering, manufacturing and supplying work for wind blades development of any size and type of wind turbine blade. Therefore, we customize our products and services in order to fulfill specific customer requirements.

For further technical information about blades, please visit: www.aeroblade.com

The team

Very experienced people in Aeronautic Industry:

- High Quality Product Design and Certification
- Aircraft High Quality Composite Material
- High Quality Product Production
- Post Sale-Service and Maintenance

Very experienced people in Wind Industry:

- Blade Design according GL and Wind Standards
- Infusion Process and Pre-preg Process
- Over 5.000 Blade Production
- On the field Service and support



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Company Presentation

RWE Innogy AERSA is RWE's subsidiary in Spain for renewable energies. The Company plans, builds, and operates plants to improve the CO2 balance of the Group and to secure the energy supply for the future.

The decision to invest heavily in the development of renewable energies closes a gap in RWE's energy generation portfolio, and as such, the asset base in Spain currently comprises 450 MW of onshore wind and 10 MW of mini-hydro plants. The company is also present in the Andasol-3 solar project, and has a strong pipeline in the Biomass business. RWE Innogy is active throughout Europe, where the current asset portfolio of 2.3 GW in operation and 1.1 GW under construction is mainly located in UK, Germany, Spain, Netherlands, Italy, France and Poland.

The RWE Group has also a strong drive for research and development. RWE Innogy invests in innovative companies and supports them through so-called Venture Capital, that helps develop emerging technologies, such as solar, geothermal and marine, and also provides advice when it comes to management.



Alatec Ingenieros Consultores y Arquitectos



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Company presentation

ALATEC Ingenieros Consultores y Arquitectos, S.A. heads the ALATEC Group, an independent and entirely Spanish-owned technology holding which has been operating in the areas of engineering, consultancy and architecture since 1984.

Since then, the firm has vigorously developed a business project with a strong commitment to growth. We have consolidated our independent stance, ensuring that we are the masters of our own destiny; it is an approach which we believe best serves the interests of our clients. And like our customers, we have learnt to aim high.

ALATEC works at all phases in the management of the INFRASTRUCTURES PROJECT CYCLE, from viability studies to support in the management and operation of constructed or operating installations, providing technical assistance and engineering, administrative, financial and legal advice throughout the process, and in this way providing clients with a comprehensive service.

Over the years, ALATEC and its business group have worked systematically with nearly all the bodies and institutions that hire out technology services in Spain's central and regional governments as well as many of the country's private-sector organisations.

Business lines

ALATEC provides an extensive range of professional services in the areas of engineering, consultancy and architecture. It includes technical areas capable of providing technological services in the following areas:

Architecture and urban planning

- Architecture
- Urban Planning
- Land Use Planning

Consultancy service

- Business Management
- Knowledge Management
- Engineering Consultancy



Construction

- Site Management, Supervision and Control
- Integrated Project Management
- Turnkey Projects

Civil engineering

- Maritime Ports and Works
- Transport Infrastructures
- Structures
- Airports
- Geotechnics

Industrial engineering

- Energy infrastructures
- Industrial facilities

Environmental engineering

- Renewable energy
- Environment
- Water Engineering
- Coastal and natural resources

With a highly specialised structure and organisation, the firm offers a variety of services which together adapt to the needs of each individual client, providing comprehensive management throughout the project development cycle: from preliminary and feasibility studies, to detailed engineering and integration of turnkey projects.



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Company Presentation

ALBICEIN is a company dedicated to the manufacture of Wind Turbines components as Bed Frames, Hubs, Bearing Housings, Planet Carrier, Generator cases, etc.

Depending on the Customers needs, the supply can include the whole service of the product incorporating foundry/forging, machining, painting, components assembly, etc.

ALBICEIN is applying its Groups experience on the creation of Turn Key Machining systems for the Automotive Industry in the manufacture of components for the Wind Power Industry. The machines, machining process, tooling, etc is design and build by the Group.

Business lines

Our main activity for the Wind Power industry is the machining of the big casting and steel components (Frames, Hubs, Bearing Housing, Planet Carrier, Generator cases, etc) , being our main customers ACCIONA, ALSTOM, GAMESA, GE, HANSEN, SIEMENS, VESTAS, etc.

ALBICEIN is operating 2 manufacturing plants with 40ton cranes, mobile column milling machines of 10m horizontal stroke and 5m vertical stroke and vertical multi-functional lathes of 2,8m of diameter with capacity for gear cutting, etc.





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Company Presentation

The Aldesa Group develops its activities in the field of energy through its subsidiary Aldesa Energías Renovables. Created in 2006, it focuses its efforts on the development, design, construction and operation of wind farms and solar thermal and photovoltaic plants.

- **Development:** site prospecting, processing of permits, requesting access to the transport and distribution networks and to REPE (Special Registry for Energy Producers), processing of building licences (urban building and environmental impact approvals), obtaining financing, administrative authorizations.
- **Construction:** preparation of engineering and logistics projects, as well as those involving the management and monitoring of turnkey projects.
- **Operation:** maintenance and management of contracts associated with operating and running such activities.



Likewise, new projects are being analysed in fields such as biofuels, biomass and offshore wind farms that will increase the Group's share in the alternative energy sector.

Aldesa Energías Renovables has chosen North America and Eastern Europe as priority areas for its international expansion, creating companies to break into the renewable energies market in the United States, Canada (focusing on the wind and photovoltaic fields) and Poland (exclusively wind). In the mid-term, the company plans to geographically expand its renewables business into Mexico, Bulgaria and Romania.

Actually Aldesa Energías Renovables has in operation five wind farms with an installed power of 110,75 MW and nine photovoltaic plants, carried out in 2008, total 38.17 nominal MW located at Andalucía.

By the end of 2011, it hopes to have an electrical production of 710 million kW/h and over 800 MW in different stages of development in Spain and abroad.



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Company Presentation

AleaSoft was set up in 1999 as a result of the deregulation of energy markets in Europe and develops its own technology for developing forecasting models for energy markets, which it uses to forecast demand, windpower and prices.

AleaSoft solutions meet the market's needs in terms of accuracy and automation, and are used by players on European energy markets including Endesa, Iberdrola, Gas Natural Fenosa, E.ON España, E.ON Italia, BP, Shell, Electrabel Suez group, Enel, EDF and Slovenské Elektrárne in the Enel group. AleaSoft solutions are also used by operators of national electrical systems, including REE (Spain), Terna (Italy), Statnett (Norway) and FEDA (Andorra). Companies and investors, essentially in the renewable energy sector, commission reports with customised forecasts to aid in taking decisions concerning investments and divestments.

The scope of our products includes:

- Solutions for automatic energy demand forecasting in different European countries (Spain, France, Portugal, Italy, Germany, Poland, Hungary, Slovakia, Czech Republic, etc.)
- Solutions for electricity price forecasting in different European markets (OMEL, IPEX, Powernext, EEX, etc.).
- Solution for customer's demand forecasting, addressed to electricity and gas retailers.
- Solution for wind production forecasts in short term.
- We develop customized solutions meeting our customers' needs, as well. Our tools are user-friendly, efficient, robust and reliable.

We offer a variety of services related to:

- Product implementation: modelling, adaptation and integration
- Maintenance and support of the applications
- Optimization of processes or systems to improve organization's efficiency in pricing, production planning, investments planning, allocation of resources, etc.
- Training services in power forecast, improving your knowledge in forecast methods and complex aspects related to energy forecast.
- Consultancy on forecasting tools, methods and processes.





Company Presentation

ALROMAR ENERGÍA as SME develops its activities since 2005, in Renewable Energies and Energy Efficiency.

Spring up as an idea to use the knowledge acquired in the development of Wind Farms, and apply it for the development of projects in Renewable Energies.

ALROMAR carries out projects in Wind Energy and Solar Photovoltaic, working mainly over Spain, France and from time to time in other countries in the EU.

Our competitive advantages are:

- We are a Young Company, dynamic and with high reaction capacity.
- Personal attention for our clients, cordiality, and efficiency, and of course the best personal comprehensive advice based on our ten years experience.
- We have our own engineering department for the design & execution of Projects in Wind & Solar Energy.
- High quality in all our Works, with the maximum security measures.

All of that allow us to guarantee the best quality-price ratio and the achievement of our client objectives.

In Wind Energy we are specialized in:

- Assembly, rent and Maintenance of meteorological wind mast up to 120 m
- Free-standing lattice meteorological towers assembly
- Supply of Data-Logger, Meteorological Sensors, (THIES, VECTOR, VAISALA, NRG, etc.)
- Wind Data Treatment
- Wind study (Wasp)
- Development assessment



Products

- Supply, Installation, Dismantling of:
 - Guyed towers (Televes, TV95)
 - Free-standing lattice mast (Carl-C)
 - Free-standing tubular mast (Bacolsa)
- Engineering Project for Met Mast.
- Dataloggers (NRG, Campbell, SecondWind, etc.).
- Communication systems for Data-Loggers.
- Anemometers, Wind Vanes (Thies, Vector, NRG, Theodor Friedrich, Vaisala, Young, etc.).
- MEASNET Calibration for Anemometers, Vanes.
- Barometer, Rain Gauge, Thermo-Hygrometer (MIERIJ, Galltec-Mela, Campbell, Vaisala, Young, Theodor Friedrichs, etc.).
- Pyranometer (LiCor, Apogee, etc.).
- Aviation lights.
- Solar panel 10-80 Wp.

Projects

Free standing towers in Wind Farms:

- P.E. Hiperion II (EON)
- P.E. La Janda (EDP)
- P.E. Santa Catalina (EYRA)
- P.E. Seron (Urbaenergia)

Promotion Met Masts:

- Capmany, Biure (COPCISA)
- Châteauroux, Liniez (ECOTECNIA)
- Galicia, Castilla y Leon, Castilla la Mancha (EYRA)
- Andalucía, Castilla y León (EDP)



Company Presentation

Alstom is a global leader in the world of power generation, power transmission and rail infrastructure and sets the benchmark for innovative and environmentally friendly technologies. Alstom builds the fastest train and the highest capacity automated metro in the world, provides turnkey integrated power plant solutions and associated services for a wide variety of energy sources, including hydro, nuclear, gas, coal and wind, and it offers a wide range of solutions for power transmission, with a focus on smart grids. The Group employs 95,000 people in more than 70 countries, and had sales of over €23 billion* in 2009/10. *Pro forma figures.

Alstom offers integral wind farm solutions, covering site development activities, system or key component design and manufacturing, assembly, installation, and O&M services for a wide range of onshore wind turbines spanning 1.67 MW to 3 MW. Through Alstom's two wind turbine platforms ECO 80 and ECO 100, the company proposes the appropriate choice of wind turbine to match different wind farm locations and wind speeds. All Alstom's wind products feature the company's ALSTOM PURE TORQUE™ concept, a unique mechanical design concept which protects the gearbox and other drive train components from deflection loads. Alstom has installed or is installing over 1850 wind turbines in over 100 wind farms, corresponding to a total capacity of over 2200 MW.





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Company Presentation

Founded in 1970, ANSYS employs over 1,600 employees, and many of them are engineers with advanced degrees and extensive training in fields such as finite element analysis, computational fluid dynamics and design optimization. ANSYS is passionate about pushing the limits of its world-class technology, so our customers can turn their design concepts into successful, innovative products.

Engineering simulation software from ANSYS provides an integrated environment designed to solve the fundamental mathematical equations related to structural mechanics, fluid mechanics, thermal science, vibration analysis, electromagnetic studies and acoustics science. The technology also analyzes the interdependency of underlying physics in multiphysics simulations, especially critical for wind energy engineers since turbines often include all aspects of fluid, structural and electrical design.

Business lines

Wind energy engineers use ANSYS solutions to develop ongoing technology innovations across the wind energy supply chain in both small and large wind projects. The software helps organizations to develop, manufacture, transport and install wind turbines no matter the goal, including reduced cost, improved wind turbine reliability, and operating efficiency. Engineering simulation software from ANSYS addresses the full range of engineering challenges involved in wind energy systems, including these specific applications:

- Aerodynamic design (thrust coefficients, blade structural integrity, ultimate loads and fatigue, noise prediction, wind gusts, fluid-structure interaction, bird strikes, icing, boundary layer transition, near wake and far field studies)
- Structural design (tower and rotor structural integrity/safety, power conversion efficiency, installation and maintenance, offshore transport and installation)



- Component design (blades, gearboxes and bearings, generator, nacelles, rotors, yaw drives, yaw motors)
- Site selection and farm layout (maximum project potential, peak and average power outputs, wind loads, fatigue rates, logistics)
- Turbine placement (variable terrain, rough terrain, forestry issues, multiple wake effects, building and setbacks)
- Electromechanical systems (electrical machines, variable-speed control systems, transformers, power electronics, power distribution systems, sensor and actuator design)
- Manufacturing processes (composites engineering)



Company presentation

The Andalusian Association of Promoters and Producers of Renewable Energy (APREAN Renewable) was born as a necessity to coordinate the action of promoters and production companies of wind power, solar photovoltaic, solar thermoelectric and bio-mass energy.

APREAN Renewable works as a negotiator/speaker with the Autonomic, Central and Local Administration and with any public or private organization. Its main objective is to represent, coordinate and defend the common professional, economic and business interests of its members and to work as an instrument to participate in the development of the general policy and especially energy and environmental policies.

APREAN is a member and takes an active role in the Wind Power Companies Association (AEE) and in the Andalusian Business Confederation (CEA). Moreover, it has arranged a collaboration agreement with the Renewable Energies Promoters Association (APPA) to strengthen the representation of promoters of renewable energy in Andalusia and Spain.

Currently, the Association is composed of a hundred regional, national and international companies representing more than 95% of the activity in this field.

It provides its members with all the information related to legislation, subventions, studies and information regarding this field as well as training to employees.



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Historical Background:

The Andalusian Association of Promoters and Producers of Renewable Energy (APREAN) was created after the drafting and approval of its articles of association on 7th of May, 2003.

The association has its own legal status, it is a non-profit organization and has autonomy to achieve its aims. It is constituted according to what is exposed on the 22nd article of the EC, The Organic Law 1/2002 from the 22nd of March which regulates the Right to Association.

The 7th of April 2008, APREAN carried out a modification of its name and statutes, taking the new name of The Andalusian Association of Promoters and Producers of Renewable Energy (APREAN Renewable).



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Company Presentation

Engineering company specialized in Industrial Instrumentation and Control, Industrial Software development, Simulators and Operator's Training Systems specialized for Wind Farms maintenance and operation.

Business lines

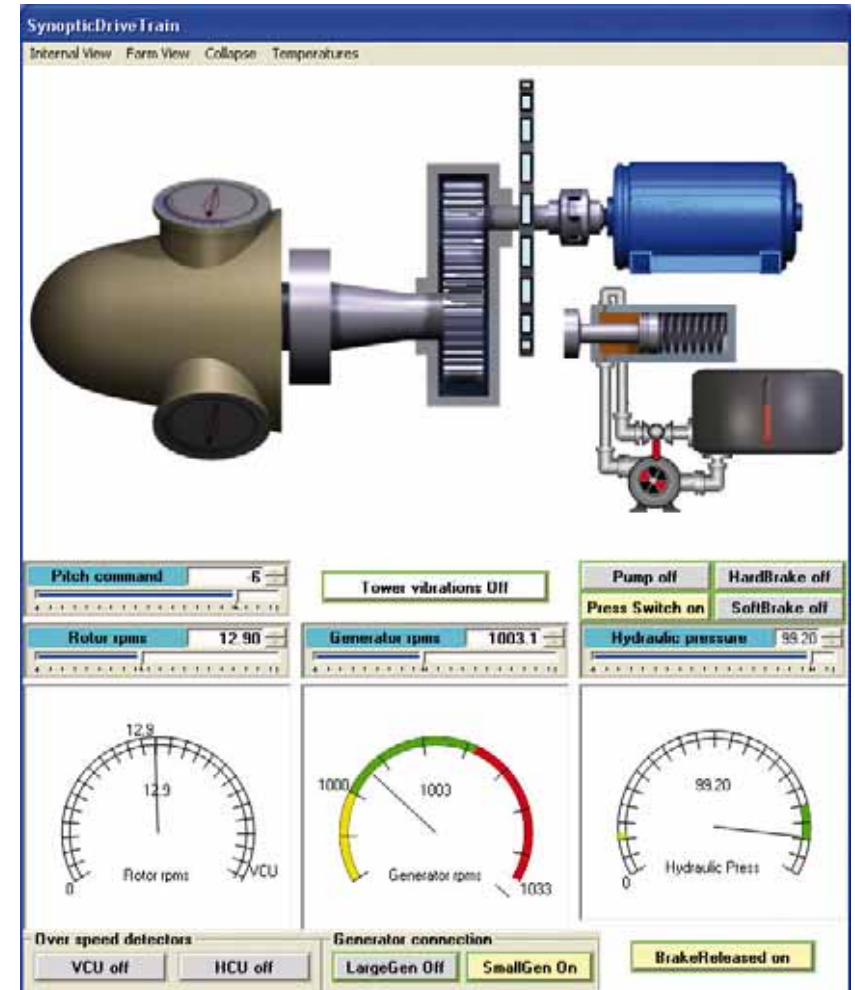
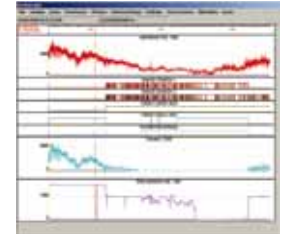
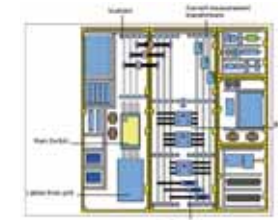
- Industrial Hardware and Software development.
- "Professional Design for Manufacturing" from start conception to manufacturing reengineering of prototypes to preseries production to quality control to customers delivery.
- Controllers for Wind Turbines.
- Development of Simulator both software-only and with hardware-in-the-loop.

Products

- WindFarmSimulator: Training System for Maintenance personnel of Wind Turbines and SCADA operators of Wind Farms.
- GPTR: 3Phase Programmable Generator and Load Simulator.
- DL1300: Industrial plant dataloggers.
- Osciloscopio: Software for fast presentation of copious logged data.
- ECA: Condition Monitoring System for wind turbines.

Projects

- Simulator with hardware-in-the-loop for Bonus 1300 KW, dual speed, variable pitch wind turbine.
- Controller for a 600Kw wind turbine.
- ECA (Equipo para Caracterización de Aerogeneradores (ECA): Condition Monitoring System (CMS) for wind turbines





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Company Presentation

Availon Iberia, the new name for SSB Servicios Eólicos is the branch of Availon group in Spain, with central offices at Rheine (Germany) and delegations in USA, Italy & Spain. Availon is an independent service provider for wind turbines with 30 years of wind-energy-related experience and with a strong growing commitment in the international WTG servicing business. Consistently extending its global strategic position.

Availon is uniquely equipped to help you make the most of wind farm owners' investment and to achieve maximum availability over the life span of the turbines. Our full-service turbine technicians and engineers are ready to provide a complete range on maintenance and engineering services

Business lines

- Operation & maintenance
- Inspections
- Spare parts supply and management
- Individual optimization solutions
- Upgrades
- Dependable field services
- Remote monitoring
- Timely, expert advice
- Repair and troubleshooting services
- Rotor blade inspection, service and logistics
- Frame inspection and service
- Detailed and certified documentation of all work performed

In addition, the Competence Center for Wind Energy in Hamburg, Germany, already opened at the beginning of 2009, has provided Availon with extensive detailed know-how as regards the maintenance and servicing of different turbines technologies, working to extend the company's maintenance portfolio to include further types of WTGs.

Spare Parts:

We only take on maintenance work for a certain type of WTG once we are fully familiar with the turbine. In order to achieve this, we obtain a considerable amount of technical know-how and constantly train our employees. We have also introduced standardized maintenance processes, allowing us to respond more quickly and efficiently. As an independent service provider, we must also be able to implement decisive improvements that have a verifiable positive effect on the yield of a WTG. An optimum availability can, in our opinion, only be achieved by continuously optimizing WTGs and thus providing economically sensible upgrades

Products & Projects performed

See at: www.availon.eu

Data

Central Office at Rheine (Germany) and branches at Spain, Italy and USA





Avanti Wind Systems S.L.

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Company presentation

AVANTI is the marked leader worldwide of products for safe work in Wind Turbines with sales and production activities throughout the world.

Head Office: Denmark Sales & production: Denmark, Spain, Germany, China, USA, India, UK and Australia.

Business lines

AVANTI has developed a complete range of products for safe working Wind Turbines.

The product range include: Service Lifts, Climb Assistance, Fall Safety Equipment, Rest and Work Platforms and Ladders in different configurations as

well as PPE, training programmes and annual service on all products.

Further AVANTI is able to offer various Technical and Engineering Service.

Products

- **AVANTI Service lift** is a good investment in safety and productivity – owners of more than 12.000 wind turbines have realized this. It is guided with wires or on the ladder itself and can be taken into use already during construction and commissioning of the Turbine
- **AVANTI Fall Protection System** is a Safety system that prevent the service technician to fall down when he climbs the vertical ladders
- **AVANTI Anchor** can be mounted through out the tower and be retro fitted on all AVANTI ladders
- **AVANTI Climb Assistance** Relieves during ascent on the vertical ladder, works by an endless rope leading the user both up and down the ladder of the turbine and is easily retrofitted in existing towers

AVANTI Personal Protective Equipment (PPE)

Gibbon Harness, Shock Absorber Y, Work Positioner SK 14, Helmet, Equipment Bag and Rescue equipment Cresto ResQ 2



Tower Internals

A full line of tower internal per your specification can be furnished competitively!

- Platforms
- Fences
- Support Beams
- Ladder Brackets
- Cable trays
- Brackets and weldments
- Supplied labeled, kitted per tower section or in bulk.

Avanti Training

“Essential to skills and proper attitude”

We have experienced specialists that are able to supply all the training needs concerning our products, fire precautions, evacuation, rescue, health and safety.

Courses available:

- BASIC FALL ARREST
- COMPETENT IN AVANTI LADDER, RAIL AND LIFT
- FALL ARREST, RESCUE AND EVACUATION
- INSTALLATION OF AVANTI LADDER AND RAIL
- INSTALLATION OF AVANTI LIFT
- OPERATION OF AVANTI LIFT
- MOUNTING OF LADDER, RAIL AND CLIMB ASSIST

AVANTI Technical Service

A Service agreement with AVANTI is your guarantee for safety in your wind turbine.





Engineering and construction (EPC)

We project and execute all of our plants and wind farm. Our expertise allows us the ability to guarantee the activity's full technical cycle, delivering an optimal product for its exploitation in deadline, cost, and operability.

Operation and maintenance

We operate and give maintenance to the plants to assure perfect service during its useful life with permanent corrective and predictive activities.

Ayesa in figures:

Production (VAT included) 118.14 millions of euros

Number of employees in 2010 : 1.263



Company Presentation

AYESA offer a global vision in every field of renewable energies, from the project's development, through the financing and construction, all the way to the operation and maintenance. Our specialty is the fulfillment of all the project's requirements in its technical, legal, and financial phases.

Administrative promotion and management

We carry out all the project's promotion activities (locations, contracts closings, costs determination, etc.) including the management of all the necessary permits and licenses for the execution.

Financing

We specialize in structuring the financial operations necessary for the project's execution, identifying the most appropriate partners, and limiting and minimizing the risks with highest rigor.

Azierta Eólica Valle de Peralada, S.L.



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Company Presentation

The “Valle de Peralada” wind energy park is a 50MW project located at Extremadura, in an area of excellent conditions for wind farm development.

Business lines

The Grupo Azierta’s company, “Eólica Valle de Peralada”, joined the challenge of renewable energies in 2007, betting for wind energy development. The so called “Valle de Peralada wind energy park” is located within the municipality of Peralada de Zaucejo and it will contribute to the generation of 50 MW of wind energy.

This way, Grupo Azierta promotes sustainable energy development, reducing the CO₂ emission into the atmosphere and contributing to mitigate the adverse effects of climate change.

The “Valle de Peralada” wind energy park received the official authorization for the promotion, installation and exploitation of the park on August 29, 2008. It is one of the 22 wind farms approved by the Junta de Extremadura out of 91 applications initially received. The 50 MW of wind energy will be produced at a single Park and will represent a 11% of the market share of wind power in Extremadura. With this development, Grupo Azierta will become the fifth generator of wind power in Extremadura.

The exploitation of the Park will produce electrical energy from the wind miles installed at the sites known as “Cuchillar de la Sierpe”, “Calabar Cuchillar” and in the crest line between the hills of “Santa Inés” and “El Cabezo” in the southern part, at the Municipal term of Peralada de Zaucejo in the province of Badajoz.

The wind energy park “Valle de Peralada” is made up of a total of 23 wind turbines, 19 turbines of 2 MW and 4 turbines of 3 MW of nominal power, resulting in a total power generation of 50 MW.

Due to its location, the Peralada Valley wind park has got excellent weather conditions. Wind quality and speed average will allow an optimal performance of the park.





Company Presentation

BaiWind was created in July 2009 for the development of the vertical axis wind generator. We are a renewable energy company engaged in the design, manufacture and sale of small wind generators with output range from 300 watts (W) to 12 kilowatts (kW) of clean energy for the electrical supply to residential and commercial customers at urban and remote locations where there is wind.

We offers wind generators of several sizes and various designs that are capable of performing efficiently under a wide range of wind conditions, providing customers with the flexibility of selecting a system that better meets their individual electric energy supply needs at very competitive cost, compared to the cost of kilowatt from the grid.

BaiWind introduce the product and expand to the global market through contracts for the marketing, distribution and after sales service of our products.

What makes your Wind-Generator special?

- BaiWind uses its own technology.
- The project addresses long term energy supply needs and abounds in the "independent supply source of energy" concept that will be of common use as renewable energy sources replace traditional "from the grid" current model.
- Low investment needs and short term returns.
- The use of proven technology, high quality and innovative designed components and intensively tested final product.
- Wind technology on its low power range is an emerging market growing very fast in the recent years.

What makes your product different to similar ones already in the market?

Our design of vertical axis wind generator provides all the general benefits that other vertical axis wind generator offer, such as:

- Low cost.
- Self starter in low wind conditions.
- Improved aerodynamic efficiency for the wind power unit, base on our unique blade design and its connection to the electric generator.

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- Wind power unit-electric generator design tailored to the specific wind conditions of the location to ensure the unit's maximum efficiency at prevailing wind conditions at any given location.
- Safe performance at all wind conditions, including turbulent ones.
- Low revolutions. (< 50 rpm., comparing to the other Aerogenerators which have more than more 300 rpm.).
- Low noise.
- Very low maintenance.
- Versatile for use in highly profitable potential markets, such as liquid pumping.
- Safe for birds due to its slow rotational speed.

BaiWind performs its research and product development work in close cooperation with well renown research and Investigation Centers in Spain, and with the I+D groups of manufacturing industry leaders.

In 2009 BaiWind was the recipient of the "Innovation Award" from APTE (The Spanish Association of Technology Centers)





Company Presentation

With more than 40 years of experience, Balluff GmbH is today a World leading manufacturer of sensor Solutions with headquarters in Neuhausen, near Stuttgart.

Sophisticated technology and the most modern electronics, application-specific customer solutions, individual assistance and first-class service are the hallmarks of our company. Provided by over 2.000 employees across the globe

Business lines

Hydraulic pitch control, Electric pitch control, level measurement, liquid leakage control, yaw control, rpm detection, rotor lock detection.

Products

- Electronic and mechanical sensors
- Rotary and linear encoders
- Identification systems and
- Optimized connectivity for high –performance automation.





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Barlovento the accreditation ISO-17025 for the "Testing of Power Curve of Wind Turbines", "Meteorological Campaigns for Wind Resource Assessment" according to UNE 500520, and also the certificate AENOR for its System of Management of R&D&i according to the Norm UNE-166002:2006, for the activities of research, development and innovation in renewable wind and solar energies. And is full member of Measnet.

Through ENERGY TO QUALITY (E2Q) renders specialized services of grid integration and performs all kind of studies and tests on the grid codes of different countries. E2Q has a mobile testing laboratory that allows the execution of electric tests of whole wind turbines, carries out voltage dips tests on site, validation of numerical wind turbine models and components and simulation of complete installations.

Barlovento as a unique supplier provides all services required for turnkey installations.



Company Presentation

Barlovento is a leader company in engineering, consultancy and testing of renewable energies. Our commitment is the highest technical quality and independence that allows working as adviser for utilities, promoters, manufacturers, financial entities, investors, civil service and governing bodies. We render all kind of technical and consultancy services needed throughout the life-span of the installation, from the initial idea to the dismantling.

Our growth strategy is based in the technological development of its services and the use of constant improvements through innovation, both with self resources and collaborating with other companies and research centers.

Our experience in wind energy covers all aspects of engineering and consulting, throughout the life-span of the wind farm.

We have carried out the site assessment of more than 1100 wind farms all over the world and the wind resources assessment of more than 12.000 MW already operating. These activities include accredited measurement campaigns, wind regional plans, site assessment, wind farm and connection infrastructures design, training plans and offshore wind resource.





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Company Presentation

BASF is the world's leading chemical company: The Chemical Company. Its portfolio ranges from chemicals, plastics and performance products to agricultural products, fine chemicals and oil and gas. As a reliable partner BASF creates chemistry to help its customers in virtually all industries to be more successful. With its high-value products and intelligent solutions, BASF plays an important role in finding answers to global challenges such as climate protection, energy efficiency, nutrition and mobility. BASF posted sales of more than €50 billion in 2009 and had approximately 105,000 employees as of the end of the year.

For the wind industry BASF is developing and supplying key products for the efficient manufacturing of modern wind turbines. Based on its long-term experience BASF additionally offers its expertise with regard to chemistry and application. With its top-quality products and services combined with high reliability BASF contributes to the making of various wind turbine components such as blades, base and tower.

Further information on BASF is available on the Internet at www.basf.com.





Company Presentation

With its headquarters in the Basque Country, BASOINSA offers solutions for the requirements of Consultancy, Engineering and Research-Development-Innovation bodies in the environmental field.

The main goal of BASOINSA is “to foster sustainable development providing integral and innovative solutions for the environmental sector, developing new tools and using the best available techniques”. BASOINSA has set several permanent goals, which underpin its mission, its quality and environmental policies:

1. Customer service
2. Internal satisfaction and improvement
3. Professional development
4. Reporting
5. Strategic management
6. Efficiency
7. Innovation
8. Transfer of specific know-how

BASOINSA carries out different types of activities related to environmental consultancy and engineering. The Company offers the following services:

- Environmental studies: assessments and diagnoses, environmental impact assessments, reports and declarations, assistance for Integrated Environmental Authorisation, technical and economic feasibility studies, valorisation studies, environmental cost analysis and calculation

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www.basoinsa.com



- Guidance, control and surveillance in works
- Advice and technical support to Public Administrations
- Land planning and management
- Protection and restoration of the environment
- R&D&I (Research projects)
- Contaminated soils, water and spills: characterization, risk assessment, decontamination and control projects
- Forest management and planning
- Natural spaces management
- Environmental thematic mapping. GIS and remote sensing

BASOINSA’s organization is based on a highly qualified multidisciplinary team with skilled professionals, integrated in a structure focussed on continuously improving its products and services.

BASOINSA’s headquarters are located in the town of Leioa. In addition, BASOINSA has regional offices in Madrid, Aragon, Asturias and Castile-Leon. Support for BASOINSA’s international activities is provided by a network of collaborators in Latin America, mainly in Argentina, Chile, Colombia, Mexico, Peru and Uruguay.





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Company Presentation

Bogaris Energy produces electricity from renewable energy and combined heat and power sources.

Its development and investment activity ranges from the design of the plants and processing of authorisations and permits, to the construction and start-up of the facilities, the management thereof and the sale of the electricity generated.

It has carried out combined heat and power and sludgedrying projects, wind, solar PV and biomass power projects and is currently involved in the study and development of solar thermal projects, off-shore wind parks and the production of biofuels.

Presence in Spain, Romania and Chile

The projects we are currently developing total 307.67 MW and are as follows:

- In CSP we are developing two projects of 50 MW each: building will start for the first, with energy to be fed into the distribution grid, at the end of 2010 and for the second, with energy to be fed into the transmission grid, in the middle of 2011.
- As regards Wind Power, we have seven projects under way, totalling 233 MW, located in Spain (provinces of Cádiz and Seville) and in Romania (Harsova-Constanza and Facaeni-Lalomita).
- We are developing seven Solar Power projects totalling 10.67 MW, located in the provinces of Cádiz, Córdoba, Granada and Seville, two of the facilities being roof installations.

In the wake of the Spanish government's go-ahead for the development of off-shore wind farms, in 2009 Bogaris Energy submitted two zone reservation applications for two separate 250 MW projects off the Andalusian coast.

Bogaris Energy was set up within Bogaris with the commitment to ongoing progress in the generation of clean energy using renewable sources and waste.

Bogaris also contributes to reducing environmental pollution through waste treatment and reduction plants (sewage and agrifood sludge, pig slurry) and cogeneration plants whereby considerable amounts of primary energy are saved in industrial processes that also require electricity and heat.



The fields of action of Bogaris Energy are as follows:

- Generation of clean electricity through the use of renewable energies: wind at wind farms, solar radiation at solar PV power plants, heads of water at mini-hydroelectric plants and primary and secondary biomass at fuel-fired plants.
- Treatment and reduction of polluting waste, such as pomace from the edible oil industry, olive treatment liquids and brines, pig slurry, sewage sludge, etc.
- Primary energy saving by incorporating cogeneration systems (combined heat and power) in numerous industrial processes.

In the processes of eliminating waste and combined heat and power Bogaris Energy uses natural gas as its main fuel, rather than conventional fossil fuels (fuel, gas, soils, etc.), thus avoiding the majority of harmful air emissions.

From some of these waste treatment processes byproducts are obtained that are ideal as a basis for the preparation of organic composts and manures for use in farming as fertilisers to enhance soil structure.

As value added, Bogaris Energy makes a significant contribution to social improvement by creating new specialised jobs, requiring highly qualified specialised training.

Bogaris Environment invests in the construction and management of plants for the waste treatment and recovery of C&DW (construction and demolition waste). It currently operates six plants in areas with a population in excess of a million and a half inhabitants.

This process produces directly reusable materials (gravel, sand, etc.) and by-products which, after their enhancement, are reused as a sub-base and for the improvement of road surfaces

- Number of farms: 53
- Installed power: 583 MW
- Investment + Portfolio: 1,051,091 (thousands of €)

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Rexroth

Bosch Group



The focus on innovation continues today, with the smart pitch system that increases turbine efficiency or the compact differential-type gearboxes that contribute significantly to reducing the tower head weight of multi-megawatt wind turbines.

The drive system determines efficiency and reliability of a wind turbine. Rexroth offers a wide range of drive solutions – applicable to all types of wind turbines. MOBILEX GFB precision yaw drives ensure accurate orientation with the wind and turn the nacelle slowly to face the wind once the cut-in wind speed is reached. For rotor blade adjustment, Rexroth provides complete electromechanical or hydraulic pitch drives. As the core component of a wind turbine drive train, REDULUS GPV gearboxes step up the slow speed of the rotor shaft into the high speed of the generator shaft.

As a world leader in industrial hydraulics, Rexroth offers a multitude of hydraulic solutions for wind turbines: Our standard program range includes modular power units and controls for main drive train and yaw drive braking systems.

Reliable wind turbine operation requires condition monitoring systems. The BLADEcontrol rotor blade monitoring system and a gearbox oil monitoring system complete the Rexroth product offering for wind turbines.



Company Presentation

Bosch Rexroth, member of Bosch Group, is one of the leading specialists worldwide in drive and control technology. Under the brand name Rexroth, the company supplies tailored solutions for driving, controlling and moving. Bosch Rexroth is a partner for industrial applications and factory automation, mobile applications and using renewable energies. The Drive & Control Company is the supplier of choice to more than 500,000 customers for high quality electrical, hydraulic, pneumatic and mechatronic components and systems in more than 80 countries.

For almost a century, Rexroth has been developing and producing innovative drive system components, and was involved in the development of early wind turbine drive systems. The gearboxes for the 3.2 MW AEOLUS II wind turbines were developed in the early 90's – a true pioneering achievement in the wind energy industry.



Bureau Veritas S.A.F.



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VERITAS**



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Company Presentation

Founded in 1828, Bureau Veritas is an international group specialized in the inspection, analysis, audit, and certification of products, infrastructure (buildings, industrial sites, equipment, ships, etc.) and management systems in relation to regulatory or voluntary standards.

Bureau Veritas ranks as the world's second largest group in conformity assessment and certification services in the fields of quality, health and safety, environment, and social responsibility ("QHSE") and the world leader in QHSE services not including raw materials inspection.

Recognized and accredited by major national and international organizations, Bureau Veritas is present in 140 countries through a network of 900 offices and laboratories. It has more than 39,000 employees and a client base of more than 370,000.

Bureau Veritas is the leading Classification Society in Spain and Portugal with over 50% market share both as shipyard and as shipowner country. The portfolio of services dedicated to the wind industry encompasses the certification of wind turbines and other equipment, the certification of wind farm projects and the classification of marine floating structures. Bureau Veritas is taking part on important European research projects such as Advocat, Winflo, Vertiwind, Marina and HiPrWind.



• Overall Length	93.24 m.
• Breadth	15.85 m.
• Depth	8.85 m.
• Main Engine	1 x 3280 kw
• Propulsion System	Screw Propeller Controllable Pitch





Company Presentation

Adventis Solutions O&M, company specialized in providing solutions and maintenance services in the renewable energies sector.

We have the resources, experience and quality guarantee over 40 years Telebearing group companies dedicated to industrial maintenance services using technology of the company SKF.

Our activity is present in Portugal, Spain, Italy, France, Mexico, Costa Rica and Jamaica.

Endorsed by the accreditation with AENOR of our range of services, achieving the excellence with the certificates of Quality, Environment, Safety and Labour Health.

Business lines

Our main objective is to reduce costs to our customers, by providing the outsourcing of services that do not affect their core business.

We elaborate a maintenance strategy which is adapted to specific customer needs within our areas of activity:

- Maintenance Services
- Individual and collective security systems
- Logistics
- Training

Products

The combination of products with maintenance systems adapted for Adventis Solutions, leading to balanced technical solutions, unification of maintenance and consequently a better performance and higher productivity.

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www.adventisolutions.com

Here are our range of products and services:

- **Maintenance**
 - Corrective
 - Preventive
 - Predictive
 - Retrofits
- **Umc**
- **Logistic**
 - Unique system of supply
 - Optimization and reduction of inventory
 - Implementation of the concept "Repair kit"
 - Elimination of duplication of spares
 - Component supply
- **Diagnostics of state of mechanical components**

We offer in-depth inspections of all of the components in all the types of gearboxes currently installed.

 - Boroscope
 - Thermography
 - Condition Monitoring
- **Individual and collective security systems**
 - Technical Advisory
 - Technical Studies
 - Formation and Training
 - Lines and Anchorage Points

• Formation

Developing training plans of our products to tailor made the needs of our customers.

• Audits

We perform technical assessments, which consist of a systematic and documented verification process.



Capital Safety Group E.ME.A.



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Company Presentation

Capital Safety, the world's leading designer and manufacturer of height safety and fall protection equipment with 18 operating sites worldwide, is home of the DBI-SALA and PROTECTA brands. DBI-SALA & PROTECTA have invested decades in the science of fall protection to ensure that workers are safe and employers have confidence they are providing their employees with the best protection possible. All of Capital Safety's fall protection and rescue systems are backed by the best training, technical assistance and customer service in the industry.

Meeting wind energy challenges

We understand that the Wind Energy industry is a diversified workenvironment. Not only is it constantly changing as the work progresses and technology evolves, but the industry itself is always innovating with new procedures and materials that present new challenges for your fall protection plan. Wind energy employees work in multiple scenarios where safety is always foremost on the job. These environments are specialized and multi-disciplined, demanding a full range of fall protection solutions



to meet the needs of a variety of workplaces. That is why employers turn to Capital Safety, the makers of the two leading industry brands DBI-SALA & PROTECTA for industry expertise, superior quality products and continual systems innovation.

Business lines

Capital Safety propose specific fall protection products for Wind Energy applications :

Wind Turbine Construction, Wind Turbine Maintenance, Wind Turbine Rescue/Evacuation and created a global wind energy team to meet the growing global demand in the renewable energies sector with the main focus to ensure key customers including manufacturers, wind farms, and construction and service firms, have the best in fall protection solutions and services for employees who work at height.

Products

With a wide range of globally certified fall protection equipment, and more planned specifically for the wind energy sector in 2011, such as the ExoFit NEX Wind harness recently launched to provide comfort and functionality to workers, Capital Safety is well placed to meet the increasing demand for safety products and training in this sector.

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www.cener.com



Almost 200 highly qualified professionals staff this centre making it a reference at both national and international level thanks to its range of professional services offered both at commercial and institutional clients.

Main activities, services and products for the wind sector

Wind Turbine Analysis and Design (Onshore & Offshore)

- Development of Wind Turbine Design Tools and Methodologies
- Design of whole Wind Turbines Concepts and Structural, Rotor and Drive Train Components
- Control algorithms and software
- Development and Optimisation of manufacturing processes for wind turbine components made of composite materials.

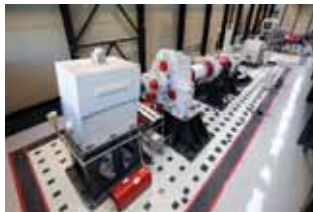
Wind Resource Assessment and Forecasting

- High Resolution WindMaps and associated virtual met mast time series (www.globalwindmap.com)
- Maps of Anomalies
- Evaluation of wind resources with Wasp or CFD Software.
- Specialised software for Wake Effect analyses in Offshore and Complex Terrain.
- LocaPred: Accurate Forecast for Wind Energy

Wind Turbine Test Laboratory (LEA) - Wind Institute

The LEA comprises five latest generation test centres, including the Blade Test Laboratory, Powertrain Test Laboratory (including the Powertrain Test Bench, Generator Test Bench, Nacelle Test Bench and Nacelle Assembly Bench), Composite Materials and Processes Laboratory, Wind Turbine Field Tests and an Experimental Wind Farm (in a complex terrain).

More info: www.cener.com



Company Presentation

The National Renewable Energy Centre of Spain (CENER) is a technology centre established as a foundation with government related trustees specialized in applied research, and the development and promotion of different renewable energies.

It currently provides services and performs research work in 6 areas: Wind Energy, Thermal and Photovoltaic Solar Energy, Biomass, Bioclimatic Architecture, Renewable Energy Grid Integration.

CENER has a cutting-edge technological infrastructure, with some of the most modern laboratories and facilities in Europe. In particular, the Wind Turbine Test Laboratory, located in Sangüesa (Navarra), it is a unique facility of this kind in the world that provides the whole range of services needed for the development of new wind turbine prototypes.

Centros para la Formación y Prevención Laboral S.L.



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Company Presentation

CFP Servicio de Prevención is a Spanish External Risk Prevention Service Company covering all industry sectors with specific focus on the Construction and Wind Power Sectors.

In recent years, we have begun giving service to our clients worldwide. Our International Department provides Health & Safety Services and covers all aspects of the Wind Power Sector, including; Civil Work, Electromechanic Assembly, Commissioning, and Maintenance.

Our team is specialized in the following areas:

- Legislation (Norms, Regulations and Good Practice Laws)
- Guideline of Local Legislation
- Adaptation of Company Norms and Procedures to the Local Country Legislation
- Preparation of Specific Documents
- Health & Safety Plan
- Risk Assessment
- Work Plan and its Implementation Procedures
- Advising
- Human Resource Services
- On-site Occupational Health & Safety Risk Prevention Technician (Local or Posted)
- Health & Safety Supervision according to Local Legislation and the Client's Norms and Procedures
- Control of Documentation & Licenses
- Report Preparation
- Provide Support and Assistance to the Project Manager
- Health & Safety Coordinator
- Meetings with All On Site Companies
- Supervise the Fulfillment of the Legislation
- Supervise the Compliance of the Health & Safety Plan
- Report Preparation



- Advising
- Training and Certification of Occupational H&S Technicians
- Inspectors (Technicians)
- Coordinators
- Other Park Employees
- Computer Programs
- Personalized Software for Health & Safety Management

The continuous search for improvement, growth and company success has earned CFP several Certifications in Quality and Environmental Management, and Occupational Health and Safety.

- AENOR Quality Management Systems Certification
UNE-EN-ISO 9001:2000. Nº ER-1504/2004.
- AENOR Environmental Management Certification
UNE-EN-ISO 14001:2004. Nº GA-2007/0006.
- AENOR Occupational Health and Safety Certification
OHSAS 18001:2001. Nº SST 0005/2010.

The ongoing commitment to excellence and customer satisfaction has allowed CFP Servicio de Prevención to be present in Spain, France, Italy, Sweden, United Kingdom, Portugal, Romania, Bulgaria, Honduras, Morocco, India and other countries around the globe.



Company Presentation

In an increasingly global and competitive, companies need more sophisticated and profitable development opportunities in the surroundings offers and demands.

To achieve the objective of adding value to the company, the professional must know in depth the performance of the company, its culture, strategy and operational procedures and management trends and methodologies and tools employable.

The importance is gaining new technologies requires the inclusion of qualified professionals to lead the new approach to all organizations that fit with vision to the characteristics of the environment.

The most competitive companies seeking a professional profile with a good university education supplemented by graduate training oriented company with some experience in the professional field. CFE has analyzed the needs of these companies and has designed programs Master, so that this formation exceeds the expectations of our students and the companies they start their career.

These Masters have the cooperation of companies, firms of international standing, ensuring a highly professional and practical approach, and from the company, which will offer students the opportunity to know the current reality and future of the business world.

Methodology

The methodology of CFE is divided into 3 phases:

1 Phase Academic

At this stage the student learns through theoretical and practical sessions based on case method, business simulations, workshops and professional visits.

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To achieve this we employ professionals who will guide student learning and share their experience through classes and / or the Virtual Campus.

Phase 2 Training

The training is complemented by a period of "Practical Training" tutored by a staff counselor CFE and professional company. The "Practical Training" takes place in one of the entities with which we work, where the student applies and deepens the knowledge acquired in the academic stage and allows you to acquire new skills and personal resources to help you consolidate your career professional.

CFE currently collaborating with: public bodies, multinationals, consulting and auditing, associations and NGOs and research centers.

3 Phase Professional Practices

Once the training phase, the student must do an internship which will consolidate the skills and knowledge acquired during the training phase.

Services for students

- Virtual Campus
- Professional Guidance Department
- Computerized documentation
- Financing as
- Languages
- Management skills

Integrated Master Plus

- MA Master in Management and Renewable Energy
- MBA in International Relations - Trade
- MBA in International Relations - Communication and Protocol
- MBA in Management and Hotel Companies
- MBA in Management and HR Management
- Master in Occupational Health and Safety





Company Presentation

CLEMCO INTERNATIONAL,S.A belongs to multinational group CLEMCO INDUSTRIES manufacturer of a comprehensive line of blast equipment and accessories for cleaning, surface preparation, and finishing Since, 1987 is GRACO distributor focused on anticorrosion and finishing markets.offering complete instalations for painting and blasting. Clemco International's, operations are headquartered in Zamudio-Vizcaya-, to serve Spain & Portugal.

In the wind power market CLEMCO INTERNATIONAL,S.A is specialized in manual and automatic instalations for blasting and painting wind mills components, such a towers, blades,hubs, nacelles....

CLEMCO INTERNATIONAL,S.A have done diverse projects in different countries apart from Spain among which , Brasil, Turkey, U.S.A and Portugal must highlight.

CLEMCO INTERNATIONAL, S.A, is very proud of working with companies like GAME-SA, GONVARRI GROUP, TECNOARANADA, APLICARMETAL, ECOTECNIA....





Company Presentation

Comertrans was born in 1994 in response to the needs of a group of road transport companies to optimize the management of their fleet of vehicles through a large company that is also capable of providing logistical support to any client nationally and in any European Union country.

Comertrans fleet is composed of all sorts of vehicles from standard full load (Taut-liner, platforms, etc.) to special transport of all sort of weights and measures, ocean shipping, etc., also counting, when the characteristics of the goods require it or the volume of the customer demands it, with the whole structure of the group's companies, what represents a capacity of over 600 vehicles, that is, as a logistics operator, we advise and act on all types of air, land and sea transport.

We would also like to highlight the constant increase of our turnover in terms of international transportation to and from the main EU countries specifically.

Business lines

The main activity of Comertrans is to provide any company that requires its production to be effectively positioned to their customers with the logistical support needed.

Over the years, we have consolidated and we offer logistics services to leading companies in its industry who year after year renew their confidence in the group. We carry out transportation between factories and clients, also providing warehousing, picking and distribution services.



Consolis Hormifuste S.A.



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Company Presentation

Consolis Hormifuste S.A. is the precast concrete wind tower centre of Consolis Group, located in Madrid. It was launched as a start up back in 2006 by Spanish engineers, and since 2008, it is part of Consolis Group.

Consolis is a leading European manufacturer of prefabricated concrete products, providing comprehensive solutions for building and infrastructure projects. With as much as 100 years of experience, Consolis companies offer a wide range of products and services, including project design and implementation.

Consolis operates over 130 plants in 25 countries stretching from Scandinavia to North Africa and from Western Europe to Baltic countries and Russia. With a workforce of over 10,000 persons, Consolis pays special attention to efficient production processes and long product life-span, and is thus dedicated to reducing the environmental burden.

Business lines

Consolis Hormifuste provides turn-key solutions of concrete towers and foundations for Wind Turbine Manufacturers and Wind Energy Developers. Its activities include design, manufacturing, transportation to the site, assembly and other site works, post tensioning and Project Management.

Consolis Hormifuste uses the most efficient production technology in order to provide an optimal solution for our clients, even in complex sites and wind farms. Innovative solutions play a central role in Consolis' continued success. That is why the Consolis Technology R&D community is at the forefront of developing precast concrete concepts, products, and manufacturing processes applied to the wind industry.

Products

Our products for the wind industry focus on two main areas: onshore and offshore.

In the onshore market, we offer two main family-products:

- Hybrid precast concrete-steel towers: maximum height, 150 metres
- Full precast concrete towers: maximum height, 105 metres.

In the offshore market, we propose a precast concrete gravity based foundation, up to 30-60 meters sea depth.



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lization of the Constanza Harbour in Romania, the initial phases of the groundwork movement for the Speed Train in Morocco, the modernization and rehabilitation of Urban Illumination in Bulgaria and engineering technical assistance tender for the N° 7 Metro in Bucarest are some of the tenders which we have been involved in.

Our commitment towards their success is unparalleled meaning that only if our client is successful...are we successful.



Company Presentation

COSEREX is an International Commerce Consultancy specialized in managing Public Tender participations within sustainable energy and infrastructure sectors. Our headquarters are based in Valencia, Spain and over the last 10 years we have created an extensive worldwide network resulting in the establishment of COSEREX Morocco, Romania, Poland and Russia. As well as counting on an extended reach to more than 20 countries around the world via strategic alliances.

Activities carried out by our firm include a wide magnitude of consultancy services required by companies to internationalize their operations, although our core business is directly related to the management and participation in International Tenders funded by international organizations.

As an integral consultancy service provider, we are capable of making sure our clients are well informed before, during and after the tendering procedure has been completed and are equipped with all necessary "local" know-how and tools in order to achieve their tendering objectives. Our clients are guaranteed maximum transparency throughout the entire process and can count on our ability to resolve critical situations along the way.

An effective filtering process is carried out when we monitor publicized tenders and there is no limit as to the size of the tender we are able to manage. The forming of a consortium to tender in the Ouzazate 2000MW Project in Morocco, the remode-

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Company Presentation

CRC Industries is a worldwide manufacturer and supplier of chemical products with one of the most important range in the world for maintenance (lubricants, cleaners, protectors and anti-corrosion products, paints...).

CRC is present in the main sectors (industry, automotive and electro). The company consists of three operating groups headquartered in the United States, Australia and Europe.

CRC Industries Europe is ISO 9001 certified. We guarantee high quality products by following strict guidelines in all facets of research, development and production. We try to meet today's most stringent environmental and safety standards.

Business lines

CRC is present in the Renewable Energies and have a wide range of products for maintenance, retouch and marking (aerosol and bulk).



In Europe we manufacture and supply:

- Cleaners
- Lubricants
- Anti-corrosion products
- Adhesives
- Welding products
- Additives
- Paints
- Moulding products
- Other specialty products..

Products

For the Wind sector we have the best Anticorrosion Products, Lubricants, Anticorrosion paints for retouch and marking, environmentally Heavy cleaners,... and all with and I+D department support.





Company Presentation

To meet our clients' comprehensive needs, Cuatrecasas, Gonçalves Pereira has established the Energy Group, composed of lawyers from different legal disciplines but united through their thorough knowledge of the unique and distinguishing characteristics of this specific industry sector, which demands practical solutions to face its increasing and dynamic transformation.

Outstanding advice - Cuatrecasas, Gonçalves Pereira acts as legal advisor in the main proceedings that the sector's operators bring against the rules governing the sector and their application. The Firm is also present in the main transactions that are taking place in Spain and Portugal.

High profile clients - Our clients are some of the largest companies in Spain including oil and gas companies, power and windfarm operators and lending institutions.

Market recognition - Due to the leadership of its lawyers and experience, the Cuatrecasas, Gonçalves Pereira Energy team speaks in forums that specialize in forming and creating opinions in the energy sector (for example, EnerClub).

Business lines

We provide comprehensive legal services including:

- Regulatory
- Mergers and Acquisitions
- Project Finance
- EU and Competition
- Commercial Contracts
- Disputes
- Ecotax

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Relevant experience

We have participated in the largest renewable transactions in Spain for the last years: among others, the sale of Endesa renewable assets to Acciona Energía, and the sale of Dong renewable assets to E.On.

In 2010 we advised Enel Green Power on the initial public offering and the admission to listing of its shares (the largest flotation on the stock exchange in Europe in the last three years), and Endesa on selling its gas distribution assets to Goldman Sachs and its distribution assets to Red Eléctrica Española.

We also advise, among others relevant clients, such as Fotowatio, Natural Electric, Gestamp Eólica, Gestamp Solar, FCC Energía, Inveravante, Grupo Jorge, Bergé, Endesa Cogeneración y Renovables, Eolia, Meridian, Arvisa, Total Eólica, Capital Energy, Torresol, Elecnor, or Dong Energy.



CUATRECASAS,
GONÇALVES PEREIRA





Company Presentation

DANOBATGROUP is the largest machine tool manufacturer in Spain. Over the last 70 years, DANOBATGROUP has supplied machines to highly reputed customers, consolidating a worldwide presence. DANOBATGROUP is the machine tool division of one of the most important European industrial holdings, the MONDRAGON corporation.

Business lines

DANOBATGROUP is specialized in different manufacturing technologies (grinding, turning, bandsawing, drilling, punching and boring/milling). This wide range of products are marketed under two world renowned brands: DANOBAT (lathes, grinders, bandsaws, drilling units and punch presses) and SORALUCE (boring & milling).

With top class manufacturing plants in Spain, Germany and UK and sales and service offices all over the world, DANOBATGROUP is a reliable global supplier of proven solutions for



different manufacturing and machining processes. A determined commitment to become YOUR GLOBAL BUSINESS PARTNER.

Products

DANOBATGROUP offers a wealth of accumulated knowledge of different machining technologies to the market. Complete manufacturing processes or specific machining operations can be provided. DANOBATGROUP offers the wind energy sector customised solutions for the manufacturing of gearboxes, rings, towers hubs, nacelles and other components of an aerogenerator. The combination of different machining technologies such as sawing, turning, boring & milling and grinding allows to DANOBATGROUP to provide complete turn-key projects to our customers.

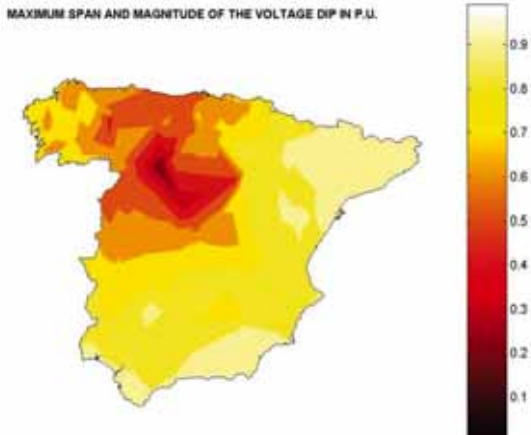
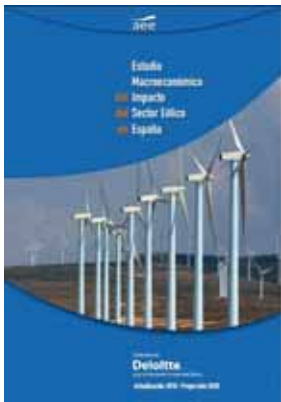


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Company Presentation

Deloitte is one of the leading professional services company worldwide. It bases its leadership on its professionals’ knowledge and on its client service approach in all its service lines.

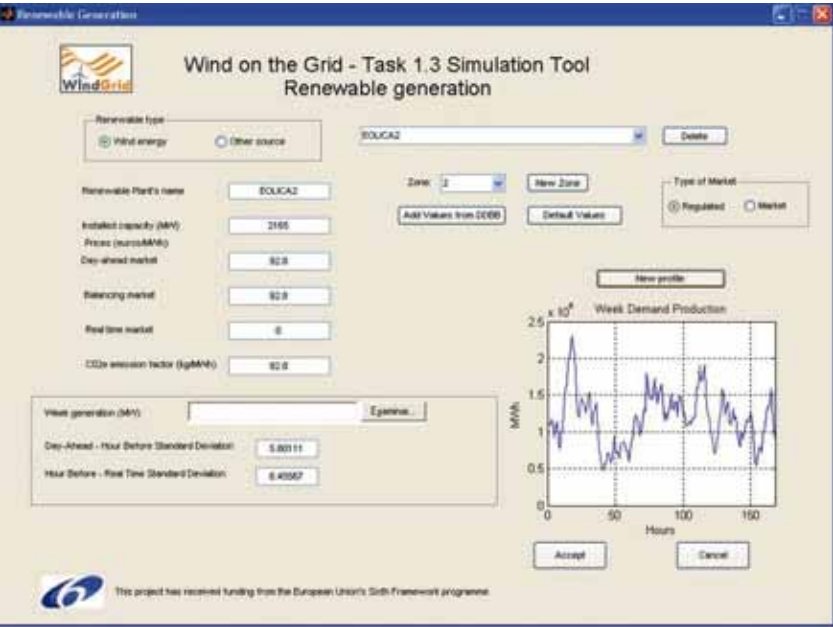
In order to provide a specialized service to its clients, Deloitte structures its human capital into industries and geographical areas, thus contributing greater value added by providing a quality service adapted to the special features of each organization.

Deloitte is present in more than 140 countries around the globe, employing nearly 170.000 professionals, covering every continent and amounting a total turnover of approximately US\$ 26,600 million (2010).

Deloitte works together with half of the most relevant firms in every industry as well as it collaborates on designing regulatory, economic and technical schemes along with governments, policy makers and public entities.

Among others, Deloitte’s renewable energy practice in Madrid has developed the following projects:

- Assessment on the level of achievement of the objectives established in the energy policy.
- Regulatory analysis.
- Different energy projects sponsored by the European Commission: IS Power, Wind on the Grid, Octavio,
- Evaluation of different innovative solutions for isolated systems regarding grid management, RES penetration, storage devices and energy efficiency.
- Design of retribution models for hydro pumping
- Development of methodologies and tools that optimize the storage capacity needed for the integration of RES (mainly wind energy) in isolated systems.
- Production forecasting for wind, CSP and PV energy based on time series and neural networks.
- Recommendations to EU Commission and EU national regulatory bodies.



- Macroeconomic study of Wind Energy in Spain, in collaboration with the Spanish Wind Energy Association (AEE); and Macroeconomic study of Renewable Energies in Spain in collaboration with the Spanish Renewable Energies Association (APPA) which included:
- Evaluation of the socioeconomic impact in Spain in terms of contribution to GDP, employment, environmental effects and reduction on energy dependency.



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Company Presentation

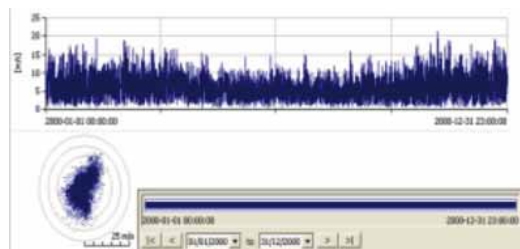
Development Engineering and Management, S.L. (Deenma) is a company specialized in the development and promotion of windfarms.

From the field identification to the windfarms promotion, Deenma contributes with its knowledge of the technology, the local administration, as well as the permitting management and the construction supervision and commissioning when it is necessary (through Opex Energy, member of Deenma Group).

At this moment Deenma has offices in Spain, Portugal, Italy and Brazil. We have several projects in different states of development, some of them in resource research phase and others in application procedure phase.

Currently, in addition to the countries where Deenma is present through its network of offices, we are analyzing different opportunities in European and Latin American countries (especially Argentina, Chile and Mexico).

Our team gathers a wide technical and economic knowledge and a command of the market usual practices. We have qualified professionals with a specific background in the different areas.



Business lines

Deenma is specialized in the following activities:

- Windfarms development (up to 20 MW) to transfer them to final promoters.
- Windfarms promotion as owners.
- Carbon credit management (in the corresponding projects).
- Development of complementary projects to the plants (cogenerations, irrigation, etc).
- Assistance in public bids.
- Assistance to new investors in the wind power sector.
- Due diligence execution in the buying and selling process of the plants.
- End of guarantee audits (together with Opex Energy).
- Windfarms operation (though Opex Energy operation centre).

References

Our main references are with leader companies in the sector, cooperating in the different activities mentioned above, as well as collaborating with companies that are consolidating their position in the market, such as construction companies and other IBEX 35 entities.



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Company Presentation

DEWI GmbH was founded in 1990 in Wilhelmshaven by the Federal State of Lower Saxony for the purpose of supporting the wind energy industry. Since then the company has been closely involved in the rapid development of wind energy, whether in basic research, development of measuring methods, political decision-making or in numerous tasks and services connected with the realisation of wind farms.



While in the early years DEWI's activities concentrated on research, the services sector quickly gained in importance and today accounts for more than 75% of company turnover. Our customers benefit from this combination of research and services, because it ensures that our services are always based on the latest findings.

DEWI's expansion into the international market has led to the company growing rapidly since 1998. Visible signs of this development are our offices in Spain, France, Brazil, Canada, Italy, Turkey and China, and the fact that our services are offered in more than 40 countries around the world. As an independent company, DEWI provides all kinds of services for the wind energy industry, developers and investors. The foundation of DEWI-OCC Offshore and Certification Centre GmbH in Cuxhaven in 2003 not only marked the DEWI Group's entry into the important field of the wind turbine certifications; it also ensured that the company is today well prepared for the future challenges of offshore wind energy.

DEWI offers all kinds of wind energy related measurement services, energy analysis and studies, further education, technological, economical and political consultancy for industry, wind farm developers, banks, governments and public administration.

In 1999 DEWI set up its first foreign branch in Pamplona, Spain. From there our activities in Spain and other countries have been co-ordinated and carried out successfully. During these years DEWI Spain has acquired responsibilities, being today in charge of project planning and project realization in many areas of services: micro-siting, power curve, mechanical loads, acoustic and grid quality measurements.

The DEWI branch in Spain is working increasingly for Spanish customers in other countries, as in South and North America, Asia, Oceania, the Mediterranean area, or in other countries where DEWI's excellent international contacts can be used. The market in Spain and the capabilities of the staff in Pamplona form a sound basis for the further positive development of the branch inside and outside of Spain and therefore for supporting the worldwide use of wind energy.





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Company Presentation

DiagnóstiQA was born in June 2007, aiming to provide technical services of Consultancy, Technical Assistance, Supervision, Inspection and Diagnostic to the energy and industry sector, in the fields of Safety, Reliability and Efficiency of their facilities, equipments and processes.

The company's staff is made up of specialists with extensive experience and knowledge in trouble management relating materials, processes, equipment and industrial facilities.

DiagnóstiQA's vocation is to focus on those areas which require more specialized attention, incorporating the best professionals, to maximise the contribution to our clients' objectives.

DiagnóstiQA is not owned nor has any financial, commercial or operating interest in industrial companies, manufacturers, construction or engineering firms, that could put in question the independence and impartiality needed when issuing to apply technical judgments, inherent in DiagnostiQA's activities.

Our commitment is to defend our clients' technical and economical interests, related to our own services, or those supervised by us, always looking for their maximum utility.

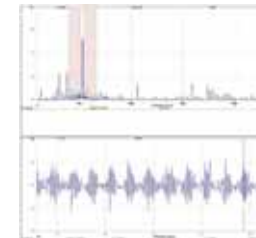
Services

We collaborate with our clients throughout the whole life of an Industry or Energy plant, since the definition of the project, until assembly, start up and operation stages. To achieve the successful completion of industrial projects, we are focused in

- Time
- Cost
- Scope

in the following areas:

- Project Management
- Project quality Management

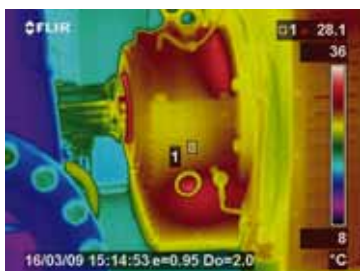


- Supervision during manufacturing & mounting
- Supervision during manufacturing & outages
- Technical assistance during purchasing & procurement
- Cathodic protection
- Energy efficiency
- Predictive maintenance
- Technical consultancy
- Training

References

Despite its youth, DiagnóstiQA has already contributed to the progress of several of the most important companies in the Spanish industrial field, providing the experience and knowledge of their technicians, in some cases exceeding 20 years. Among others, DiagnóstiQA has worked for:

- Acciona Energía
- Enel Green Power
- EUFER
- ECYR
- Iberdrola Renovables
- Gamesa
- Vestas
- Gas Natural Fenosa
- Enagás
- Endesa
- Iberdrola
- Red Eléctrica de España
- Reganosa
- Sener
- Siemens
- Socoin
- Repsol
- Nuclenor
- Abener





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- Impact of wind turbines on the stability of the system. Limits to the integration of wind power into the transmission and distribution system.
- Assessment of Power quality for wind turbines (IEC-61400-21):
 - Study of the harmonic impact according to international standards (IEC-61000-4-7).
 - Study of flicker impact according to international standards (IEC-61000-4-15).
- Impact of renewable power plant current injections on protection coordination schemes. Unexpected tripping of protection systems.
- Verification of Grid Code requirements:
 - Low Voltage Ride Through capabilities (LVRT) of power plants according to specific country-related rules and non-standard measurement procedures.
 - Checking requirements on the automatic voltage and active power regulation during symmetrical or unsymmetrical voltage dips.
 - Verification of the response against phase jumps during a voltage dip (Phase Angle Jump Ride Through – PAJRT).
 - High Voltage Ride Through capabilities (HVRT – voltage swells).
 - Testing and verification of the response of newly-designed controllers for renewable power plants at steady state: i.e. active power-frequency control and reactive power-voltage control at the point of common coupling of a wind farm (OPC server link).
 - Verification of negative sequence currents during the dip, comparison with specific thresholds imposed by the TSO.
 - Verification of the capabilities of emulating the inertial response as classical synchronous generators, comparison with specific behavior imposed by the TSO.
 - Islanding, loss of mains.
 - RMS-EMT modeling and validation of wind turbines and wind farm models to comply with TSO requirements.

Company Presentation

DlgSILENT Ibérica, created in 2008, is a consulting and software company located in Madrid as a new branch of the DlgSILENT GmbH Group, for the markets in Spain and Portugal.

By means of this new branch, DlgSILENT is able to strengthen even more its presence in the International market where it is already represented by DlgSILENT subsidiaries in South Africa, Australia, Chile and Italy and also by representatives in more than 15 countries worldwide.

Products and Services

The products offered by the company for the Iberian market are:

- DlgSILENT PowerFactory
- DlgSILENT StationWare
- DlgSILENT GridCode
- DlgSILENT PowerFactory Monitor

The services being offered by DlgSILENT Ibérica in the field of renewables are related to the study of wind power impact on the network, the verification of technical requirements set by Transmission System Operators, for example:



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Company Presentation

Diméco Técnicas Industriales is present in the market since 1973, specializing in the manufacture and commercialization of union and sealing elements for flanges and pressure equipments according to ANSI B16.5/B16.47 and ASME Section VIII.

Business lines

Unlike other elements of union, the screws and anchor bolts for use in wind towers, for being strongly exposed to vibrations, must be submitted to a control of special quality; both in the selection of the raw material and in different phases of manufacture which it has to pass.

DIMECO'S experience in the supply of bolting to shipyards and nuclear power plants, which in both cases, work under vibrations and seismic calculations respectively, allows us to be sure in the manufacture and supply in the concrete area of the wind towers.

- Foundation Anchor bolts for tower
- Bolts and studs of: Spade, Generator, Axle box, Multiplier, Tower section to section...



Specifications: According to DIN-975 / 976, DIN-6914/6915/6916, DIN-913

Materials: UNE-EN-ISO 898-1: 6.8/8.8/10.9; UNE-EN-ISO 898-2 CL.6/CL.8/CL.10

Diameters: Ø M-12 up to M-150

Coatings: - Hot Dip Galvanized According to ISO 1461

- Zinc Coating According to UNE -EN-1403 and UNE-EN-12329

- And other customer requirements.

References: ACCIONA, GAMESA, ETC...





Company Presentation

E.ON Renovables is part of E.ON Climate & Renewables, which is the market unit for renewable energy of the E.ON Group, one of the largest privately owned energy groups in the world, with annual sales of 82,000 million Euros and 88,200 employees.

E.ON has a clear objective of reducing CO₂ emissions and support and develop cleaner sources, as renewable energies.

Business lines

E.ON Climate & Renewables has 3,568 MW in total. From those, 3,017 MW are onshore wind and 467 MW are offshore wind.

In Iberia, with a staff of about 80 professionals, E.ON Renovables has around 400 MW in operation of renewable energy, 360 MW wind capacity, and a large pipeline under development. E.ON is also present in the main tenders that have been launched in the

Spanish communities as a major player, providing financial strength and technical ability which makes E.ON a key competitor in the area of renewables.

Projects

Throughout 2010, E.ON España has consolidated its position as the nation's number four operator, gaining significance as one of the benchmark players in a sector in the throws of transformation not only in terms of energy mix but also market liberalization.

E.ON España invests in the three cornerstones of its innovation strategy:

- Conventional generation: E.ON España invests not only in combined cycle plants but also in environmental fitting and desulphurization works, extending the useful lives of its conventional fossil fuel power plants.

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- Renewable energy: E.ON España aims to be one of the key players in the Iberian-renewables market, and lately has achieved the following:
 - E.ON Renovables inaugurated in 2010 the largest wind farm in the south of Portugal, the Sao Joao de Barao windfarm.
 - In July 2010 the company was awarded 210 MW to develop in the Cantabrian Wind Power Tender.
 - During 2011, around 90 MW of wind will be put in operation, increasing E.ON's capacity to almost 500 MW operational.
 - Tapping the extraordinary solar conditions of southern Spain, E.ON is developing two 50 MW solar thermal plants in Écija, one of them will be inaugurated in 2011.

The company has set the foundations for tackling the group's new strategic priority, namely creating cleaner and better energy.



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Company Presentation

ECOINTEGRAL INGENIERIA, SL is an independent company of advanced engineering and consultancy services. The Company was conceived and consolidated from the professional team experience committed to developing a work of innovative, high-quality, effective and accountable to the Environment, engineering.

The experience gained through an important and large engineering work portfolio, over the whole Spanish geography, has provided ecointegral currently holds prestige in their sectors and areas.

Complete independence and flexibility gives ecointegral a competitive advantage to maintaining shareholder engineering, commitments or alliances with builders, installers, manufacturers and other businesses that may generate conflicts of interest to a transparent design work, assistance, design and direction technique.

So ecointegral, thanks to this independence and thanks to having the most advanced resources and a highly qualified technical staff engaged in constant training, is the confidence engineering of large companies and large projects



Business lines

- Wind farms, photovoltaics plants and electrical lines.
- Assistance in the projects identification and promotion.
- Feasibility Locations Analysis.
- Management and Integral Administrative Handling.
- Prediction and Energy Audits.
- Wind farmer Micrositing and Basic Engineering - Pre-Writing.
- Occupational Safety and Health Project and Implementation phase.
- Environmental documentation in compliance with current regulations.
- Engineering Detail - Writing Project Implementation
- Selection of utilities, facilities, construction companies and financial entities.
- Legal and Technical Assistance in the EPC negotiation and Project Finance.
- Supervision and Management Work.



Company Presentation

World leader

EDP Renováveis is a leading renewable energy company that develops, manages and operates power plants that generate electricity using renewable energy sources, mainly wind energy, and sells the electricity produced by such plants.

Currently it has presence in eight European countries (Spain, Portugal, UK, Italy, France, Belgium, Poland and Rumania), the United States, Canada and Brazil.

Global company

EDP Renováveis is the world's third largest wind energy company. We operate in the most attractive markets, and we are continuously expanding our business to new areas of the globe.

EDPR was established in December 2007 and publicly listed in June 2008. It aggregates under one umbrella the European renewable energy assets (European Platform), the North American renewable energy assets (North American Platform), and Other Regions renewable energy assets of the EDP Group.

Energias de Portugal, S.A. ("EDP"), the majority shareholder of EDPR, is a vertically-integrated utility company, headquartered in Lisbon, Portugal. Through its various constituent businesses, EDP holds significant electricity and gas operations in Europe, Brazil and the United States.

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Leading Performance

Installed gross capacity increased 20% in 2010 reaching a total of 6,7 GW worldwide.

This growth is the result of an extraordinary capacity to implement projects and to smoothly integrate the companies acquired during this period. Our markets provide more attractive growth possibilities, principally due to their growth prospects and the fact that they possess a stable regulatory structure that permits profit generation.





Company Presentation

EDUINTER design and execute Integral Projects for infrastructural development and also supply services to our institutional clients, mainly in the public sector, working to achieve their educational, productive and territorial development. Since 1997 we have gained wide experience in executing more than 50 projects in at least 20 countries in America, Asia and Africa.

We provide turnkey projects to our clients with services for all their needs: project design, management, infrastructure construction, equipment choice, logistics, installation and training. We work as an EPC Company (Engineering, Procurement and Construction Company).

We study the needs of energy and development to contribute suitable solutions, with the objective of a sustainable development and energy consumption optimization.

We execute energy generation projects, either by means of renewable energies, (wind farms, rural electrification using solar energy, etc.) or by means of traditional generation energies.

EDUINTER is certified in executing development projects in education, technology & production, infrastructures and the environment in accordance with the ISO 9001:2008 standards.

Business lines

- Micro-sitting (Wind and Site)
- Projects
- Civil Works
- Electromechanical Work
- Transport
- Assembly
- Communications
- Commissioning
- Setting Up
- Operation and Maintenance
- Technical Training and Assistance
- Finance



Projects

URUGUAY - Supply, Installation and Implementation of an Industrial Power Wind Farm at 10 MW - 50 Hz (Turnkey basis)

COSTA RICA - Security spare parts for Tejona Wind Farm

URUGUAY - Supply, Installation and Implementation of Caracoles II Wind Farm at 10 MW - 50 Hz (Turnkey basis)

MOZAMBIQUE - Supply, Installation, Tests and Commissioning of photovoltaic systems for the electrification of Administrations Post in the Provinces of Nampula, Cabo Delgado and Niassa

DOMINICAN REPUBLIC - Provision of solar panels for schools included in the program PIM-APRENDE

KENIA - Design, supply, installation, test and commissioning of photovoltaic systems to 380 schools, health centers and dispensaries in the ASAL districts.





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Company Presentation

With a history of more than 100 years, EFACEC, the largest Portuguese Group in the field of electricity, employs around 4800 people and has a volume of orders that already exceeded 1.000 Million euros, being present in more than 65 countries.

EFACEC is mostly concentrated in Portugal and in 7 international regions: Spain (EFACEC Sistemas España, S.L. and EFACEC Equipos Eléctricos, S.L), USA, Latin America, Maghreb, Southern Africa, Central Europe and India.

Business lines

EFACEC Group is organized in ten Business Units:

- Energy Solutions
 - Transformers
 - High and Medium Voltage Switchgear
 - Servicing
- Engineering Solutions and Services
 - Engineering
 - Power Systems Automation
 - Maintenance
 - Environment
 - Renewable
- Transport and Logistics
 - Transport Systems
 - Logistics Systems

The export market represents nowadays more than 60% of EFACEC Group Turnover.

At the beginning of 2011 the EFACEC workforce in Spain is about 150 persons.

The EFACEC Group is leading the supply of integrated solutions and equipment in the market of power generation, transmission and distribution, Automation and Telecontrol Systems, Power Supply Systems, Maintenance and Technical Assistance Services.

EFACEC offers turnkey solutions in the fields of Production, Transport, Energy Distribution, Industry, the Service Sector and the Environment, as well as an integrated offer of Maintenance and Technical Assistance solutions.

Significant projects in other areas such as Transports Systems were also undertaken, including transport electrical infrastructures and operational and control systems (Light Metros, Railroads and Heavy Metros, Road Transport and Airports.).

With Logistics Business Unit, EFACEC is a world supplier of Automatic Warehouse and Baggage Handling Systems for airports.

For Energy Projects, EFACEC can provide the following equipment and services:

- Power Transformers: Shell and Core type Transformers and Mobile Substations
- Distribution Transformers
- HV and MV Switchgear
 - MV Concrete Compact Substations
 - MV Secondary Distribution switchgear
 - MV Primary Distribution Switchgear
 - HV Disconnectors
- In Renewables, EFACEC can act as:
 - Developer
 - Turn-key solar/wind power plants contractor
 - Inverters manufacturer
 - Energy equipment supplier
- Servicing: Maintenance and repair work in Motors, alternators, turbines, transformers, circuits breakers, disconnecting switches, switchboards and wind power generators:
- Maintenance: Wind Farms and Solar FV Plants, Transport infrastructures, Buildings, Industry, Telecommunications, Environment infrastructures and Hospitals.
- Power System Automation solutions and equipments (Scada, protections, etc.)
- Electrification projects turnkey contractor and solutions provider for Transport Systems
- Conventional Generation projects and Substations turnkey contractor





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Company Presentation

Eflow is composed by a group of companies specialized in patrimonial management, combined with technological solutions and tailor made procedure designs. Operational business areas:

- Consultancy
- Technology
- Outsourcing

In order for us to develop our activities and projects we count with both specialized staff and materials, as well as backed up and approved procedures guaranteed by the corresponding quality certifications.

Business lines

Outsourcing services

Procedure definitions and solution design for non strategic activities for companies in operational and corporate areas. Execution of outsourced activities by our clients in diverse areas, such as:

- Administration and accounting
- Legal assistance.
- Document management.
- Patrimonial management

"Success stories"

- Authentication management (to record in a notarial instrument, tax clearance and registration) of assets in installations such as wind power parks, transformation centres, substations... in multinational company groups leaders in production and distribution of electric energy.
- Document management: digitalization and its integration into a data management system.
- Built in patrimonial inventories at large private and public corporations.

Consultancy services

Optimization and planning of Business processes: analysis and improvement of

staff and operational circuits in the company.

- Design of Technology Area manager plans: synchronization of the companies' technology strategy with the global company strategy.
- Establishment of Patrimonial management systems: tool definition, internal control and automated accounting management.
- Advice and management concerning the establishment of internal quality and environmental regulations focused on ISO rules.

"Success stories"

- Design and execution of a tailor made technological plan in a national company group, specialized incorporate valuation, including process and communication optimization.
- Advice over the patrimonial management model design in a multinational company, leader in production and distribution of electric energy.

Technology services

Analysis and design of tailor made computer management applications: vertical modular solution development

- Integration of tailor made applications with the enterprise systems.
- Own framework development.
- Solution display: adaptation of existing solutions to different business areas:
 - Patrimonial information platform
 - Quality and environmental control platform
 - Integrated commercial system
- Technology management
- Technology management: tools designed to be offered for SAS modalities (software as a service) inside the Cloud Computing philosophy.

"Success stories"

- Development of the patrimonial management system in a multinational group, leader in production and distribution of electric energy.
- Development of web applications for a multinational Headhunting company.
- Adaptation of information technology solutions for patrimonial inventory management at large corporations.



Company Presentation

EGL Energía Iberia was established in 2002 as a subsidiary of the European energy trading company EGL AG, a trading company with its own assets, member of the Axpo Group, which is Switzerland's largest energy supplier, and is listed on the SWX Swiss Exchange.

EGL Energía Iberia, is one of the most active companies in the Iberian energy market and has been able to establish itself as the second most important non incumbent energy supplier to major end-users. At the same time, it concludes trading contracts with producers of renewable energy and takes over energy sales on the Spanish energy exchange, OMEL.

EGL Energía Iberia is a member of OMIP (Operador de Mercado Ibérico de Energía), the Iberian futures exchange - term market, where it trades with energy related products. In addition, it's very active in the French-Spanish interconnection border.

EGL Energía Iberia manages in the market the energy for more than 465 production sites totalizing almost 6.800 MW's installed capacity of special regime (mainly from wind, cogeneration and small hydro plants).

Business lines

There are four main activities in EGL business:

1) Sale of Electricity and Gas

- Personalized offers. Fixed price for periods, binomial offer, indexed prices.



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2) Energy Management

- Price Hedging to renewable producers for different energy periods and volumes

3) Selling Agent

- Daily Operation at OMEL and REE
- Management and follow-up of settlement for OMEL, REE and CNE
- Very simple and flexible web tool to send production forecast to the market
- Deviation cost savings. As a selling agent, EGL manages over 6.800 MW of renewable plants in Spain that are diversified geographically and by type of technology, this allows EGL to guarantee its clients exceptional deviation cost savings.

4) Dispatching Center

- REE certified dispatching center
- Real time data through internet

Products

Main products for gas and electricity consumers

- Fixed price for periods
- Price indexed to pool
- Price indexed to international petroleum product price
- Dual fuel (gas and electricity) price
- Options

Main products for special regime producers

- Fix price for a Base-load or Fix Price per MWh produced

Fixed Price: In this option, EGL and the producer establish a guarantee of revenues for all exported electric energy, thus removing the price uncertainty in the market option framework.

Base-load: In this option, the producer agrees a base-load with EGL at a certain price for a given capacity, and for the period chosen by the producer.





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Company Presentation

Integral service of consultancy and relation with the promotion, implantation and functioning facilities that you take advantage of the renewable energies (Wind farms, photovoltaic facilities in soil and cover, minihydraulic head offices and plants of biomass), and systems of evacuation incorporating his professional labor into the whole type of process of development of the project

- Analysis territorial and selection of emplacements
- Evaluation of the technical and environmental viability
- Inventory - quantification of the energetic resource and calculation of the economic profitability of the installation
- Eión of wind, photovoltaic and hydroelectric plans
- Technical projects of facilities of enrgía renewable, substations, electrical lines
- Studies of environmental impact, landscape integration, noise, fauna, habitats, etc.

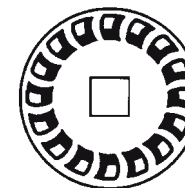


- Inventory and archaeological exploration, excavacione extensive of deposits and his recovery and putting in value
- Urban development processing of the facilities
- Studies of social incident of the activities
- Projects and direction of environmental work of environmental recovery and of compensatory measures
- environmental and archaeological control of the works
- Control and follow-up of the facilities in functioning
- Campaigns of education and civil awareness in relation with the renewable energies
- Integral management for the processing of processes and management of rights for the availability of the areas

Business lines

Nowadays the group activity is organised in four work lines:

- 1) Economic, Strategic and Environmental Plannig
- 2) Territory Regulation, Town Plannig and Legal Practice



Projects

There are many stunts performed in the sector but the following are four examples to understand the scope of our work:

1. Grid connection system in Agrotourism in the Igeldo Mountain in San Sebastian. Wind turbine installed by Bornay and a three-phase connection (6kW) to the grid
2. Grid connection system in a building of offices in the Industrial area of Zuatzu in San Sebastian. Turbine installed by DONQI in connection phase with the mains (1.75 kW)
3. Wind-photovoltaic system to power a detached house in Orozko, Bizkaia. Wind turbine by Bornay of 6 kW, and a PV array of 3.15 kWp, providing 5 kW
4. Wind-photovoltaic system to power a family house in Munguia, Bizkaia. Wind turbine by Bornay of 3 kW, and a PV array of 6.1 kWp, providing 5 kW

Company Presentation

Ekain Taldea SL was founded in the year 1995 and is dedicated to the installing of renewable energy systems.

Our productions are always within the small wind market and they are mainly aimed at residential and agricultural sector.

Business lines

Our main activities are developed in the small wind sector; we have a vast experience in isolated electrification and also with grid connection systems.

We train in schools and we apply wind generators to training coaches.



Company Presentation

Eldu develops integrated engineering services, assembly and maintenance of electrical installations.

Founded in 1955, has a broad geographic presence, nationally and internationally presence to offer our clients a complete Electric service, with a huge commitment to quality, safety and environmental friendliness.

Business lines

Business Units:

- Electrical Engineering Installation
- Electrical installation
- Electrical Maintenance
- Technical Assistance Service (SAT) 24 h/365 days
- Energy efficiency

Engineering:

- Projects "turnkey solution"
- Legalization of installations
- Audit and Adjustment as implementing regulations (REBT, etc.).
- Studies of selectivity and coordination of electrical protection
- Optimization studies and power quality
- Technical and safety Formation
- Automation and control
- Other services

Installation and Assembly:

- SGIS and outdoor substations up to 400 kV
- SVC's and outdoor capacitor battery
- Control systems and power protection in High Voltage (HV)
- Overhead and underground lines to 66 kV
- Processing centers from 12 to 45 kV
- Equipment systems and DC power



- Live Working brigades
- Power switchboards, control and protection
- Instrumentation and process control
- Other

Maintenance:

- Predictive, preventive and corrective maintenance to 400 kV systems
- Predictive, preventive and corrective maintenance systems of Low Voltage (LV)
- Treatment and regeneration of dielectric fluids and oils
- Infrared thermography
- Detection and repair faults in underground power cables
- Maintenance of classified areas, public places, etc.
- Maintenance of public places
- Control inspections by Authorized Organizations (OCA)
- Authorized destruction of PCB-contaminated equipment
- Register parameters and analysis of power quality
- Cleaning and glazing of electrical insulators

SAT:

- Permanent Service 24h / 365 days
- Immediate attention to failures of High and Low Voltage
- Vehicles specially equipped to care Failures
- Own Electromechanical workshop
- Parts Store of High and Low Voltage (LV): Cells, voltage transformers, current transformers, switches, switchgear, automation, etc.
- Parts Warehouse High Voltage (HV):
- Large stock of Power Transformers up to 132 kV
- Detection of faults in underground cables



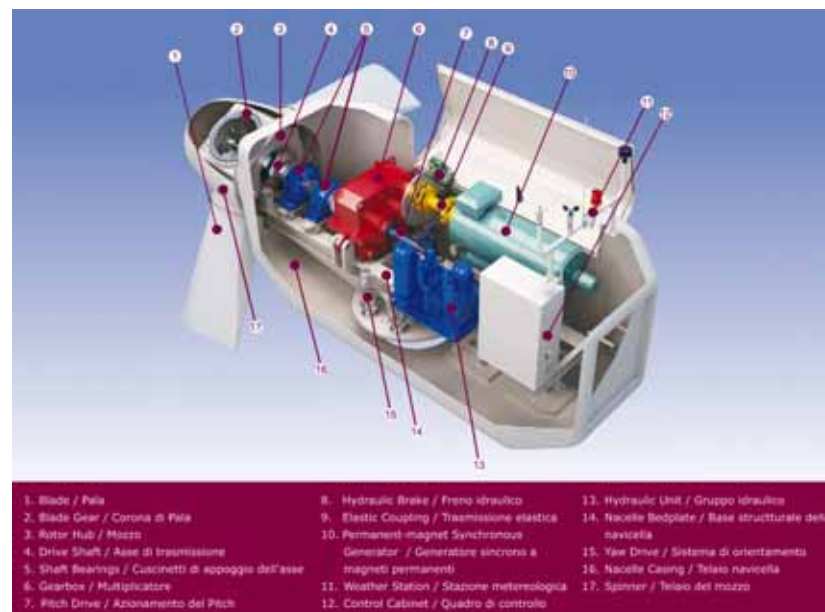


the wind power market. The machines incorporate state-of-the-art components and have the capacity to be connected directly to distribution grids. These special features make them unique in the wind market.

It is based on a multipole permanent magnet synchronous generator, a variable blade Pitch system, a Yaw system and a Full Power converter.

The GARBI 150/28 and 200/28 main features are:

- Direct connection to distribution grids
- Voltage dip stability (REE, EON)
- Active-reactive power control
- Harmonic filters according to IEC
- Lightning system protection
- Remote control available



- | | | |
|--|---|---|
| 1. Blade / Pala | 8. Hydraulic brake / Freno hidráulico | 13. Hydraulic Unit / Gruppo idraulico |
| 2. Blade Gear / Corona di Pala | 9. Elastic Coupling / Trasmissione elastica | 14. Nacelle Bedplate / Base strutturale della navicella |
| 3. Rotor Hub / Mozzo | 10. Permanent-magnet Synchronous Generator / Generatore sincrono a magneti permanenti | 15. Yaw Drive / Sistema di orientamento |
| 4. Drive Shaft / Asse di trasmissione | 11. Weather Station / Stazione meteorologica | 16. Nacelle Casing / Telaio navicella |
| 5. Shaft Bearings / Cuscinetti di appoggio dell'asse | 12. Control Cabinet / Quadro di controllo | 17. Spinner / Telaio del mozzo |
| 6. Gearbox / Moltiplicatore | | |
| 7. Pitch Drive / Azionamento del Pitch | | |



Company Presentation

Electria Wind is a company dedicated to the design, manufacture, installation, operation and maintenance of medium-power wind turbines. Innovation is the company's outstanding feature; its firm commitment makes it an R&D benchmark, with machines that incorporate leading-edge advances.

The company aims to boost a new power model based on generation decentralization and self-consumption.

Electria Wind transfers all the advantages that large scale wind energy technology has to medium-power and opens up new opportunities on track to energy efficiency.

The company gives rise to a new concept in understanding renewable energy: technology and innovation to make the most of renewable energy sources.

"Electria Wind wants to provide an alternative for wind energy investment, thus occupying a complimentary niche to large scale wind power."

Strategy & Development

Electria Wind's strategic plan contemplates international growth and expansion by means of industrial and business partner alliances in each of the potential markets. The company plans to create joint enterprises with local partners that will build factories in different markets.

Garbí: Features

Electria Wind has developed two medium-power wind turbines of 150 and 200 kW, the GARBI 150/28 and the GARBI 200/28 model, in order to meet the needs of



Company Presentation

Electrorayma is a company founded in 1990. From the beginning, the firm has paid special attention to the technical and technological needs of companies to build and maintain electronic equipment and systems.

With that aim in mind, we have highlighted the development of our Departments of Technological Research and Development to meet the requirements of the industrial, naval and renewable energy sectors.

Electrorayma facilities are currently based in the industrial zone known as Polígono Río do Pozo, in Narón, A Coruña (Galicia, Spain) covering a building area of 4,600 m².

Electrorayma has followed a strategy of continuous diversification and growth – its turnover in 2010 was over 16 million euros – with the help of a staff made up of 120 technicians and experts, as well as human, production and technological resources to guarantee competitiveness and service to its clients.

Quality is our starting point and therefore, since 1998 Electrorayma operating procedures have been certified by AENOR in compliance with the ISO 9001 standard.

Safety is another of our priority targets. For that, we have a specific Department and the OHSAS 18001 certification.



Respect for the environment is also present in our activities. To prove that, Electrorayma has established an action plan to comply with the ISO 14001 Environmental Management Standard.

Business lines

- Naval Sector
- Industrial Sector
- Renewable energy sources

Renewable energy sources (wind)

- Maintaining and operating transformer stations
- Repair of electronic cards
- Maintenance and repair of blades
- Maintenance and repair of multipliers
- Manufacture and maintenance of electric panels
- Inspection, assembly and repair of optical fibre
- Control and management of spare parts warehouse
- Maintaining and operating substations
- Maintenance of high voltage lines



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Business lines

Nowadays GOIAN product range is divided in 3 main activities:

- Wind Power (lifts, helpers, internals, other structures and machines)
- Industrial (special design based on exiting machines or new projects: , tower cranes, radar towers)
- Construction (new buildings, renovation, prefabricated construction...)

We are working with the most important wind turbine manufacturers, cooperating not only as elevation systems' suppliers but also collaborating from the very beginning in the definition and design of the said products.

Company Presentation

ELEVADORES GOIAN, S.L. is part of the Jaso Group Structure, which is mainly focused on the elevation sector. Based on the experience and commercial strength of the Group, GOIAN has a very strong position in the wind power sector, more than 4000 service lifts installed in wind turbines in 25 countries. Goian is the only company worldwide with its own and proved technology in rack and pinion and cable service lifts.

Goian is presently in an international expansion process in order to render our customers even a closest service. It has two manufacturing premises, in Spain and in the United States, and it is present in other continents too. Moreover, the exclusive distributors' net assures the best service to our customers.

All the machines commercialized by GOIAN are developed in-house and patented by our R+D+I department, whose personnel is highly experienced in the elevation sector, guaranteeing quality and safety designs and flexible and quick answers to our customer's requirements. The best and most modern means are used to find innovative and efficient solutions to our elevation systems.

GOIAN does not only sell products, but also offers the best after-sales service to customers. The After-Sales service is in charge of the assembly, commissioning and maintenance of the machines as well as of giving support to the incidences that might occur when machines are operating.



ELIMCO Soluciones Integrales S.A.

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Company Presentation

ELIMCO is a high added-value technological services company, specially focused on customer needs, having a broad background of innovative projects based on management excellence.

ELIMCO performs in many different areas as Infrastructures, Maintenance and Customer Services, Informational Systems, Aeronautical Systems and Unmanned Aerial Vehicles, being a point of reference in the international market for being a specialist in Added-Value Solutions.

Quality systems

- 2002: nº ER-1294/1999 UNE EN ISO 9001 : 2000
- 2002: Environmental management system nº 02/409 UNE EN ISO 14001 : 1996
- 2002: Environmental management system EMAS nº 761/2001
- 2006: EN/AS ISO 9100 design and manufacture .
- 2006: Environmental management system nº GA-2002/409 UNE EN ISO 14001 : 2004
- 2007: Management system R&D UNE ISO 166002
- 2008: CMMI Level 2 (in management, December 2008)
- IPC620A (American Standard for harness manufacturing – IPC/WHMA-A620 Class3)

Business lines

- Maintenance, services and customer support
- Installations

Projects

ELIMCO does maintenance on numerous eolic power plants since 2006 in Spain working for the biggest renewable energy corporations.

Below you can find some of our main references:

Iberdrola Renovables

Integral Maintenance for A.T Installations, Aero generators breakdown assistant service and operations, A.T Substation and M.T. A.T. evacuation lines in Cadiz, Huelva, Malaga, Granada y Guadalajara:



Aero generation plant Maintenance A.T. in Huelva and Cadiz, more than 700 aero generators.

EDP Renovaveis

Aero generation power plant maintenance A.T. 24 Aero generators.

Zede Arcos

Integral Maintenance for A.T Installations, Aero generators breakdown assistant service and operations, A.T Substation and M.T. A.T. evacuation lines in Cadiz.

Zede Tajo

Integral Maintenance for A.T Installations, Aero generators breakdown assistant service and operations, A.T Substation and M.T. A.T. evacuation lines in Malaga.

Enhol Energía

Integral Maintenance for A.T Installations, Aero generators breakdown assistant service and operations, A.T Substation and M.T. A.T. evacuation lines in Cadiz.

Endesa Ingeniería

Integral Maintenance for A.T Installations, Aero generators breakdown assistant service and operations, A.T Substation and M.T. A.T. evacuation lines in Cadiz.



Company Presentation

ELINSA is a company specialising in manufacture of electrical switchboards and installation and maintenance of electrical installations in different areas, mainly renewable energies.

It has been working since 1968 under very high standards of quality, seriousness and efficiency. Today ELINSA has centers in the cities of La Coruña (main office and factory), Lugo and Vigo and two more Companies in its group: Pablo Vega SL (Algéciras, Spain) and Elinsa Italia SRL (Milano, Italy). It has more than 9.500 m² of facilities, workshops and offices.

ELINSA has a Quality and Environmental Management System in accordance with the requirements of the International Standards UNE-EN-ISO 9001:2008 and UNE-EN-ISO 14001:2004.

Products and Services:

- **Electrical installations:** design and installation of low and high tension power until 132 kV (excluding transport lines).
- **Industrial maintenance:** predictive and corrective.
- **Design, production and installation of electrical switchboards:** mechanical and electrical workshops where all the process can be done, including tests.

References:

Manufacture of switchboards: starters, distribution cabinets, power cabinets, converters, rectifiers and inverters for renewable energies.

Electrical installations and maintenance in different wind parks for the main Companies in the wind area: E-ON, Acciona Energy, Gamesa, Iberdrola, General Electric, EDP, etc.



Enel Green Power España



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Company Presentation

Enel Green Power España is a company in the Enel Group dedicated to the generation and promotion of renewable energies in Spain and Portugal, where it operates with a consolidated capacity of 1.518 MW and more than 100 facilities. This presence is the result of the integration of the renewable energy activities of Enel and Endesa in the region.

The company has a strong presence in the wind power sector with a consolidated capacity of 1,354 MW in Spain and Portugal. Enel Green Power España also operates in the mini-hydro sector, with a capacity of 57 MW and cogeneration, with 71 MW in Spain and Portugal. Its balanced power generation mix is complemented by 23 MW of biomass assets and 13 MW of solar power.



Enel Green Power is one of the leading companies in the sector in terms of installed capacity and production. It operates in 10 Spanish regions and also in Portugal, where it has 140 MW of consolidated capacity in wind and cogeneration.

Throughout the world, Enel Green Power operates in an environmentally responsible and sustainable way that protects and respects the natural environment and its biodiversity. To do so, it works on numerous projects in partnership with associations, public institutions and other organisations that are dedicated to the protection of the environment.

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ENERCON An Overview

Production area: 478,000 m² (as of February 2011)
Production facilities: Germany: Aurich; Emden; Magdeburg
 International: Sweden; Brazil; Turkey; Portugal; Canada

Serially produced WEC types: E-33 / 330 kW, E-44 / 900 kW, E-48 / 800 kW,
 E-53 / 800 kW, E-70 / 2,300 kW,
 E-82 / 2,000 kW, E-82 / 2,300 kW,
 E-82 / 3,000 kW, E-101 / 3,000 kW,
 E-126 / 7,500 kW

Market share in Germany, based on installed power: 60.4% (2009, DEWI)
Market share in Europe, based on installed power: 25%
 (2009, emerging energy research)
Global market share, based on installed power: 8.5%
 (2009, BTM Consults Aps)
Sales offices: 22
Service stations worldwide: More than 160
WECs installed worldwide: 17,520
 (as of February 2011)
Installed power worldwide: 23,000 MW
 (as of February 2011)



Company Presentation

ENERCON – High-Quality Products and a Stable Business

In 1984, the foundation of ENERCON GmbH turned over a new leaf of the wind energy success story. Thanks to its extensive research and development activities, the company has been able from its very foundation to present a wealth of technological innovation that has increased the efficiency of power generation from wind energy. Today, ENERCON is one of the world's leading manufacturers of wind energy converters.

In the early years ENERCON systems still featured gearboxes. However, a systematic changeover was made in 1992 with the introduction of the first gearless turbine, the E-40 / 500 kW. This innovative drive system with few rotating components ensures nearly friction-free energy flow, providing outstanding performance and reliability. Compared to geared turbines mechanical stress is reduced, operating and maintenance costs are lower and service life is extended. Today, this tried and tested gearless concept is the distinguishing feature of all ENERCON wind energy converters.

Internationally, ENERCON has a high profile in key markets. ENERCON ensures optimal availability of all WEC components through its exceptional vertical integration.

At ENERCON, high product quality is linked to financial stability. This is underlined by the A+ rating result.

Energías Renovables Mediterráneas, S.A.



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Company Presentation

ENERGÍAS RENOVABLES MEDITERRÁNEAS, S.A. (RENOMAR), is a company devoted exclusively to the development and management of the installation of 100% renewable electricity generation, especially wind energy. It is currently working on the development of the one of the countries largest wind energy projects. The company won contracts for zones 1, 2, 3, 8 and 9 of the Wind Energy Plan of the Valencia Regional Government. It has 13 wind parks up and running and is preparing the installation of another 9. The company currently has 490.5 MW of installed power and will add another 325 MW when the new installations it is working on are all operational.

RENOMAR is currently the largest company in terms of installed MW capacity in the Valencia Region and the seventh largest in the whole of Spain.

The company came into being backed by powerful shareholders. 50% of shares are held by the Valencian company MEDWIND (Bank of Valencia, ERECAVA, S.A., Andrés Ballester, TIERRA ATOMIZADA, S.A. and CEPE, S.L) and by the group ACCIONA ENERGÍA. The president of the company is Fernando Roig, a well know business man.

Business lines

RENOMAR's activities are currently focussed on the development of wind parks. They are undertaken in the Valencia Region at this moment in time.

- Products (optional)
- Data (optional)

Projects

RENOMAR has 13 wind parks up and running, 100 % of which are in the Valencia Region, which means capacity of 490.5 MW. 10 of these parks are in the province of Castellón and correspond to zones 1, 2 and 3 of the Valencia Regional Government Wind Energy Plan. The other 3 parks have been installed in the province of Valencia and belong to zone 8 of the plan.



The company aims to invest a total of 1,065 million euros overall in the project in this region. It has already invested 460 million euros in zones 1, 2 and 3. Another 132 million have been invested in wind parks in zone 8. The remaining 473 million euros will be invested in the 9 parks RENOMAR plans to build in the near future.





Company Presentation

Energy Resources, established in 1989, is a 100% Spanish company dedicated to promotion and development of electricity generating facilities based on renewable energies.

Up to date, we have built more than 21 hydropower plants in Spain and recently commissioned our first wind energy installation.

In particular, construction or rehabilitation and operation of power-plants with outputs between 5 and 30 Mw have been our main interest.

In Spain, ERSA has applied for permits of 80 hydropower plants (a success rate of 15 Mw is expected in 10 years) and 110 wind-power projects, with a combined capacity of more than 1.200 Mw (a success rate of 10% is expected in 5 years).

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ENERGY

RESOURCES



Recently (2009), ERSA conducted a study of countries around the world which, considering various factors, meet the requisites for continuing international expansion of its business. The result of this study led the firm to select India, Brazil and Eastern European countries for its expansion, specifically Poland, Rumania, Hungary, Bulgaria and the Czech Republic.

Our objective is set in 500 Mw installed capacity in a prospecting phase of 3 years. At its end, the projects may be at different stages of negotiation, with the following breakdown:

The firm also has a 1,6 Mw wind turbine up and running close to HP Villa de los Ángeles (Quinto – Zaragoza), and authorization for another 1,6 Mw turbine.





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Company Presentation

Enerlim Albia is engaged in the design and development of "Translation Type" wind turbines, offering an output range from 300 kilowatts to several thousand kilowatts of electricity for the commercial power generation industry.

Compared to the horizontal axis wind turbine, our generator reduces the manufacturing, transporting, and installing costs up to 40% per installed kilowatt and substantially reduces maintenance costs per generated kilowatt.

There are important reasons for the main players in the wind energy development and investment industries to support this technology, such as:

- Its concept addresses long term energy supply needs and abounds in the "clean-supply source of energy" concept that will be of common use as renewable energy sources replace traditional "fossil fuels" current model.
- The simplicity of its design and the use components than allows for mass production.
- The use of proven technology, high quality and innovative designed components and intensively tested final product.

The design of "Translation Type" wind generator provides all the general environmental benefits of other wind generators and additional ones, such as:

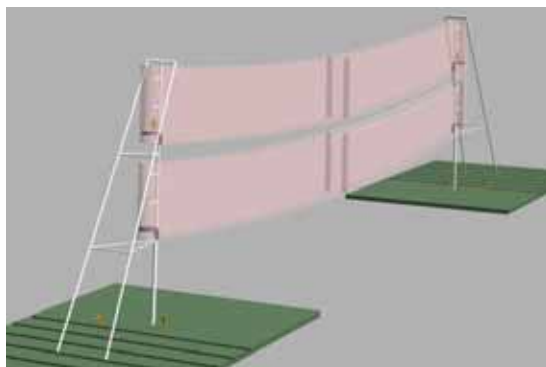


- Very low mechanical loads to its rotating and power generation components.
- No need of control systems to keep its most efficient blade orientation at any wind direction and condition.
- No need to use lubricants and other control fluids during operations, what eliminates the risk of environmental impact.
- Low fabrication, transportation, installation and maintenance costs.
- High availability and very low operational costs.
- Improved aerodynamic efficiency for the wind power unit, base on our unique blade design and its connection to the electric generator.
- Safe performance at all wind conditions, including turbulent ones.
- Very low translation speed.
- Very low noise.
- Very low maintenance requirements.
- Safe for birds due to its slow blade translation speed.

Enerlim Albia was created in September of 1995. The first testing machine was installed in Hozalla, Burgos, Spain, in the year 2001 as testing bank, where it has been performing for more than a 9 years and has sustained winds of more than 125 miles per hour (200 Km/h) in a very harsh environment of ice and snow -15 degrees Celsius- and over 45 degrees Celsius.

Thanks to our team consisting of experts in renewable energy, aerospace, chemical, and electrical engineering, Enerlim has grown into a sustainable company with over 15 years of research and development experience.

In 1996 Enerlim Albia was the recipient of the "Innovation Award" from The Babcock Foundation, and in 2009 of the "Innovation Award" from APTE (The Spanish Association of Technology Centers).



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Company Presentation

Grupo Enerpal is a leading company in the renewable energy field in Spain, working in the last stages of the value chain in wind power, solar photovoltaic and thermal, micro-cogeneration, biomass and geothermal.

Enerpal projects, develops, promotes and exploits renewable energy facilities for third parties and for its own stockholder equity, always with the highest quality criteria.

It has a 13 year experience, which makes it one of the benchmark companies in the renewable energy sector. Over this period of time, it has proved a high adaptation capability, dealing successfully with the changing energy sector.

Keys to success. A bet on the future

The fact that Inbisa and Holfisa are part of the Board of Directors shows once more the potential of Grupo Enerpal in such a competitive sector as the energetic one is. Besides, they allow Enerpal to reach a high value chain by taking advantage of the synergies among the different business areas of all the companies involved in the Group.

This shareholder structure is one of the cornerstones of Grupo Enerpal success, because it allows us to join the experience and know-how of Enerpal in the renewable energy field and the knowledge of Inbisa in construction, specially regarding to industrial plants, logistic platforms, roofs, etc, which makes of Enerpal one of the company groups with the highest potential in solar roof systems. The cooperation of two experts, in construction and in renewable energies, guarantees an optimal installation and a maximum financial performance.

Data

Our mission:

Promotion, development, operation and maintenance of renewable energies installations for third parties and its own stockholder equity.

Main breakthroughs:

- June, 1997– Enerpal opening.
- December, 2002 – Geographical expansion.
- March, 2007 – Group consolidation.
- May, 2009 – Actual shareholders structure.

Revenues: 100 million euros by January, 2009 (70 million of the parent company and 30 million of our franchises and subsidiaries)



Eolia Renovables de Inversiones S.C.R., S.A.



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Company Presentation

Eolia Renovables de Inversiones, S.C.R., S.A. is an independent generator of power from renewable sources. Nowadays it has reached out to be one of the leading independent European generators. It is engaged in the development, construction and operation of wind and Photovoltaic solar farms across five countries (Spain, Germany, France, Poland and Mexico).

Eolia Renovables is managed by N+1 Eolia, an investment management company belonging to N+1 Group. Its growth strategy is based on taking equity stakes in mid-sized renewable energy companies. The company currently includes over 50 facilities that generate electricity from renewable sources, contributed by more than 20 independent developers. It is owned by 185 shareholders.



Its founding shareholders include specialist alternative asset managers such as the N+1 Group, independent developers and some of Spain's most important institutional investors, among others.

Eolia Renovables has a well-diversified portfolio of wind and solar power facilities with a total attributable capacity of 1,385 MW, out of which 505 MW were in operation at the year-end 2010; and 131 MW under construction (23 MW in France). In addition, Eolia Renovables has a portfolio in pre-construction phase in Spain, and a pipeline at various stages of development for which the relevant permits and authorisations required to begin construction have already been secured.

Eolia Renovables has a portfolio of 48 MW in operation of PV power in Spain awarded under the tariff of Royal Decree 661/2007.

According to the Spanish wind power business association (AEE), Eolia Renovables ranked sixth in terms of new wind power capacity installed in 2009 (99 MW), accounting for 4% of new capacity installed in Spain on 2009, and ranked ninth by total installed capacity in Spain at year-end 2009.

In the coming years, Eolia Renovables plans to focus strategically on i) building and commissioning the pipeline of wind power projects at the pre-construction and advanced development phases; and, ii) diversify geographically the investment portfolio by growing in markets with attractive renewable regulatory frameworks, prioritising European Union markets.

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Eolia Tarraco



Company Presentation

EOLIA TARRACO is the subsidiary in Barcelona of EOLIA RENOVABLES (<http://www.eolia.com>). We develop, construct and operate EOLIA's projects in Catalonia.

Our activity is focused in the currently largest portfolio of wind power projects with Administrative Authorization and granted grid connection in Catalonia, consisting of 8 wind farms. Two of these wind farms are under construction by the beginning of 2011, and a first phase of one of these ones is currently under operation.

We develop a total of 7 wind farm projects included in the "Registro de Preasignación" with a total capacity nearby 300 MW, which are planned to be operative before the end of 2012.



Business lines

Our activity can start from "green field" (e.g. since the very beginning of a project development) but is more likely to be focused in the latest stages of the development process, including the finalization of the permitting phase, the financing, construction and operation of the wind farms.



Eólica del Cierzo S.L. y Tetraclinis S.L.



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Company Presentation

EOLICA DEL CIERZO S.L. is a young and Spanish company, created in 2008 in Zaragoza (Spain).

Company Objectives

- Develop, build, own and operate global renewable energy projects with a special focus on wind power and solar energy.
- Renewable energies consulting.
- Middleman's business in buying and selling renewable energies projects.

Main Markets

- Spain and Portugal.
- USA (Southwest, Middleast and Pacific Coast)
- Poland, Bulgaria, Romania and others East European countries members of the European Union (EU – 27)

	Main Activities	Business Guidelines
Wind	<ul style="list-style-type: none"> • Develop of wind farms and solar (PV and thermo). • Obtaining all the different permits, licenses and autorithations with Energy and Environmental authorities. 	<ul style="list-style-type: none"> • Development of wind projects 10 -100 MW. • Development of small wind projects < 10 MW. • Co-share in other wind projects
Solar	<ul style="list-style-type: none"> • Construction, operation and maintenance of energy projects. 	<ul style="list-style-type: none"> • Development of solar projects (2 – 50 MW). • Instalation of solar projects in industrial buildings and commercial centers



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- Location photovoltaic sites, applying for licenses, construction and commissioning. In 2008 she presented the Commissioning of 11 photovoltaic plants in Coves de Vinromà (Castellón) for a total capacity of 1.1 MW and annual production of 2.0 GWh.

Services

Eólica del Montalt SL can offer its experience in handling probate records and obtaining licenses, financing, construction management and operation of hydro-power plants, wind farms and photovoltaic installations.



Company Presentation

Eólica del Montalt SL was founded in 1998 by a group of professionals, engineers and economists with the aim of promoting renewable energy facilities from the site location, Licenses, construction and operation as well as obtaining funding.

Business lines

Acts in the three modes of wind, small hydro and photovoltaic.

- Location of wind sites, applying for licenses, construction and commissioning. Has several projects requested, and in 2007 launched wind farm Motarro in Vandellos (Tarragona) and currently manages their operation: Installed capacity of 2.6 MW, annual output 8 GWh.
- Since 1999, manages the operation of the hydropower plant Clot del Moro in Castellar de n'Hug (Barcelona) with an average annual production of 10 GWh, has managed its automation and the control of environmental flows.

Eolica Ingenia S.L.



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Company Presentation

Eólica Ingenia S.L. (EI) was born in 2008 through a Project of professionals coming from all range of positions in the renewable business, with the main focus of develop services based in Innovation, Quality and transparency.

In Eólica Ingenia S.L. (EI), we consider the know-how and the professionalism as key of any project, and we put in our customer's hand with the aim of achieve their goals. Their goals become our goals.

EI S.L. has the highest technology, Quality standards and methodologies available in the Industrial Business.

In addition, we add our dedication, motivation and experience of the group of professionals with high reputation in the market.

Eólica Ingenia S.L., EI S.L., offers to his customer a big range of products customized in accordance with the requirements of it, based mainly in the highest technical quality that EI S.L. develop in each product.

Some of the main activities of EI S.L. has been part of are:

- Due Diligence. Evaluation/Audit of renewable projects.
- Supervision during installation and Commissioning
- Management and Supervision of the projects during the warranty period of the product.

Technical Supervision during warranty phase

- Periodical Inspection of main components
- End of warranty Inspection .
- Training (Technical Training, Management Competences)
- Applications Development (Software & Hardware)

Eólica Ingenia SL, based on the great knowledge and experienced in the renewable business, can offer support as consultancy in the areas where the customer is required in accordance to their needs, based on frame agreements and joint ventures with the main players and experts of the Renewable business



- a) Technical. With our own resources and thought frame agreements with the main experts of the business.
- b) Legal. Contract Support (O &M, Suppliers, ...). Risk analysis of the contracts. Litigations.
- c) Administrative. Management of the production. Administrative Due diligence. Interface with insurances companies.

Experience:

E.I. SL has a team of professionals with huge experience in the renewable business, both in Supply chain, production, Product Service and Installation and Maintenance.

Therefore, we can give you a complete vision of the whole range of operations need through the lifetime of the project, without losing our main goal, customer satisfaction. .

Innovation:

The wind business is a pretty Young business, and therefore, under a continuous changes. Thus, Eolica Ingenia SL, brings innovative products as well as working methodologies avant-garde in the industrial business

Professionalism:

We search in our service a product, with and added value; a singles and unique opportunity to bring in it our main values of our company: Professionalism, quality and transparency.

This policy is keystone in any of our services. A Service, a product



Company presentation

EQUIPO ECONÓMICO is comprised of a qualified team of experts with a wealth of strategic decision-making experience in both national and international institutional and business worlds.

The value of the company's team is based on professional credibility, integrated vision, in depth knowledge of the economic geographical landscape and its capability to generate business opportunities, especially in renewable energies.

Equipo Económico guides its clients towards achieving goals by offering tailored advice on regulatory and legal issues, in addition to economic, financial and taxation matters; we help our clients to overcome difficulties and attain their projects with optimum success rates.

Business lines

Infrastructures related to renewable energies have a noteworthy presence in this consultancy service, collaborating with the identification of new projects and the design of public-private financing operations in which Spanish businesses can participate, with local partners, where appropriate.

Thanks to its wealth of experience in public decision-making, advice on economic and social matters extends to the field of multilateral financial institutions, such as

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the World Bank, the Inter-American Development Bank and the Andean Development Corporation, which play a major role in the development of projects in Latin America.

Equipo Económico provides corporate intelligence and strategy services to top management in companies, institutions and clients in general.

Products

Examples of our experience in Renewable Energies:

Corporate intelligence and strategy

Consultancy service to international energy companies entering the Spanish market.

Business taxation

Full advisory service and optimisation of tax and accounting actions for the incorporation of new investors in business projects, or to facilitate the localisation of these activities in Spain among others

Financial management

Advise on optimising financial effects to facilitate including new investors in energy projects and design of public-private partnership schemes for infrastructure projects and assistance with raising funds from multilateral financial institutions.

Regulatory

Consultancy to energy institutions and energy companies facing significant regulatory changes in their sectors to enable efficient adaptation to these changes.

Corporate and projects

Equipo Económico participates in international energy projects by identifying partners, involving both Spanish and local firms in the projects.



EREDA – Energías Renovables y Desarrollos Alternativos SLU



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Company Presentation

EREDA is an engineering and consultancy firm owned and run by experts with many years of experience in the wind and solar energy industry in and outside of Spain. The company's expertise in all areas of wind and solar energy engineering covers:

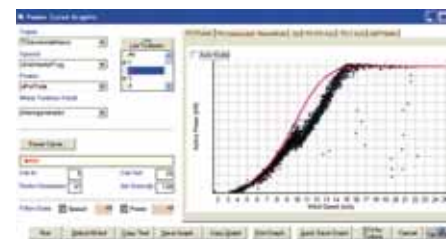
- Wind turbine performance and specifications
- Site characterisation (resource assessment)
- Layout and micro-siting
- Grid connections
- On-site project management
- O&M
- Facility inspection (including turbines, blades, gearboxes and so on)
- Performance verification / production losses
- Power curve verification
- Tools (software development)

EREDA provides support for:

- Public authorities in the identification of opportunities to define rules for renewable energy market development
- Private or public developers considering investments in wind and wind energy projects or planning to develop their own
- Electric utilities or developers in the analysis of technical issues around grid connections for wind and solar energy plants
- Owners of wind and solar energy facilities seeking to increase the profitability of their plant or analyse potential deviations in energy yields
- Financial institutions in the assessment of energy assets or investment opportunities
- Wind turbine manufacturers for site characteristic verification, construction project management or the analysis of wind farm operation and maintenance issues

Business lines

Wind resource assessment. EREDA furnishes support for the estimation of wind resources and the appraisal of final wind farm layout, including the analysis of power



output and wind characteristics to ensure an optimal choice of technology.

On-site engineering and project management. Over 12 wind farms with a combined installed capacity of 600 MW have been built under the direct supervision of EREDA staff.

O&M. EREDA is presently responsible for O&M management in Spanish wind farms with a capacity of 400 MW. We provide technical support in areas such as the provisional acceptance of turbines, post-commissioning and the verification of main turbine performance parameters for any number of technologies. We also counsel our clients on the final acceptance of turbines and verify the availability and performance statistics of facilities in operation.

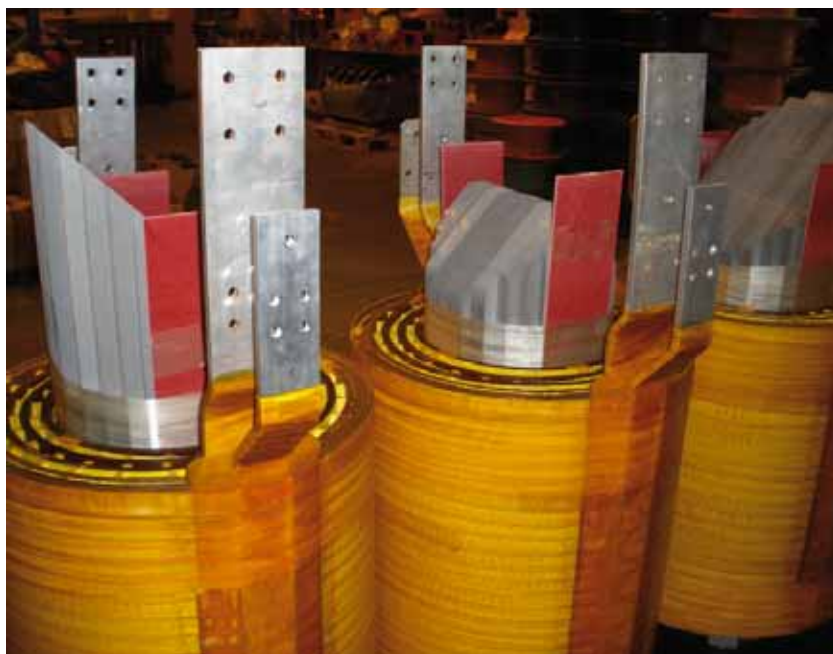
Facility inspection, performance verification / production losses. EREDA verifies the performance of facilities in operation, including compliance with guarantees (power curve, availability, power regulation, electric parameters, and so on), loss assessment and power curve verification with our own procedures.

Blade inspection and repair. EREDA partners with companies of proven expertise to provide inspection, cleaning and repair services for blades supplied by all the major manufacturers and vendors.

Condition Monitoring Systems. EREDA partners with My SEN (Germany) for the CMS market. Experience of more than 12 years and more than 1000 turbines of different technologies were analysed by My SEN. The service is offered jointly.

Audits and due diligence. EREDA's expert staff have acquired many years of asset assessment experience. The company conducts pre-financing or pre-purchase due diligence evaluations of wind and solar projects and periodically assesses resources for wind energy developers and manufacturers.

Tools and software development. EREDA develops its own data processing and analysis tools. Its software is designed to meet renewable energy-related needs (meteorological data processing, operating data analysis and so on) and any others specifically requested by our clients. EREDA's software and information analysis tools draw from the most recent information technology developments, including databases, geographical information systems, satellite data and so forth.



- Best quality guaranteed (From computer electrical design to automatized final testings)
- Fluid and permanent contact with our clients: in order to adjust as much as possible to their needs.
- Efficient and quick service guaranteed. Followers of all the international standards requests: CE Standard, ISO-9001, International standards of manufacturing and testing.
- Wide presence in different markets (Naval sector, railways, Tool machinery, renewal energies (wind power and photovoltaic), Power electronics, galvanic baths, Diverse Industries)

We have many clients in the Wind power market , both inverters manufacturers and wind mill manufacturers.

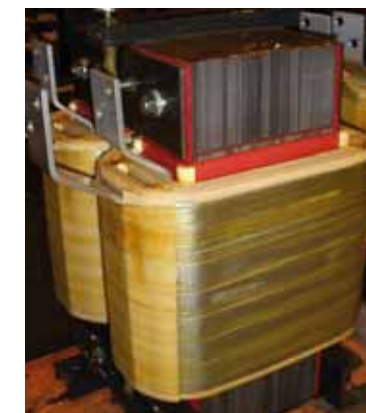
Please take a look to our web page: www.eremu.es and do not hesitate in sending us your enquiries.



Company Presentation

EREMU, S.A. was established more than 50 years ago as a firm dedicated to manufacture and repair electrical transformers. Afterwards, and due to complete a line of parallel necessities detected in our customer's environment, we enlarged our range of products with a line of elements associated to the others. A line of battery chargers and another of power suppliers constituted this new range basically. In both cases directed preferentially to our customers on the naval sector.

At the moment our presence in the market is completely consolidated due to our firm bussiness policy. The strongest points of this policy are the following:





Company Presentation

ESBLADA is an engineering company with more than a decade of experience in the renewable energy sector that has developed many projects all over the world in a quick and efficient way.

Nowadays, ESBLADA is composed by three more areas, apart from renewable energies area: mechanical design area, construction services area and systems and processes area. All of them take advantage of the synergies created between them, in order to benefit all the projects that are managed by these areas.

ESBLADA counts on a multidisciplinary technical team, making possible to give the best results to the customers' projects. ESBLADA's team is formed by engineers specialized in wind resource, high voltage, civil works, mechanics, telecommunications and SCADA systems and by topographers, draughtsmen and advanced designers.

Business lines

Within renewable energies area, ESBLADA focuses its activity in:

Wind energy

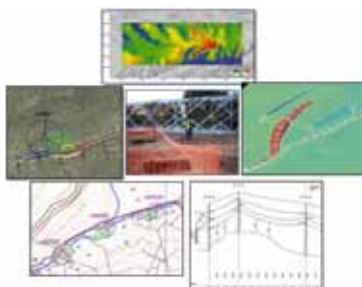
- Wind resource study
- Administrative and constructive projects
- Technical economic feasibility analysis
- Due diligences
- Affected properties and rights
- Wind advisory and consultancy
- Site management
- Construction stakeout

Solar energy

- Solar thermal: domain of installations technology
- Solar thermal power: study for solar farms promotion

Small hydro power

- Technical economic feasibility analysis
- Engineering projects



Topographical services

- Topographic raisings based on GPS and total automates station
- Redesigns for construction
- Use of specific modelling sites software

Electrical services

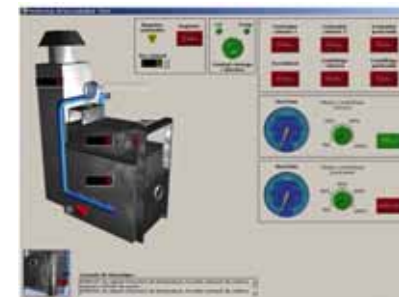
- Projects of aerial and subterranean electrical lines of high and medium voltage.
- Electrical substations
- Grid capacity analysis
- Site management
- Construction stakeout

Civil work services

- Complete design of civil work
- Detailed calculations of work execution
- Detailed calculations of land movements
- Analysis of access feasibility
- Use of specific 3D software of civil work

Projects

ESBLADA has collaborated in 30% of the already processed wind farms during last years in Catalonia. In addition, ESBLADA has developed many projects in the rest of Spain, adding a total of 1,180 MW and in the rest of the world, adding a total of 1,360 MW.





Company Presentation

EINA is a company, which thanks to a successful R & D activity provides solutions for the automation of Industrial processes for the wind mills industry. Throughout more than 20 years of successfully history of the company, we have set up more of 500 machines all over the world for different activity sectors.

EINA has automated surface preparation processes before the paintshop, like grinding, sanding, polishing, edge and root trimming, also machining processes as milling, cutting, drilling, and quality control processes as thermographic inspection as well as measurement and dimensional control of fiber blades.

Most of EINA's developments are based on anthropomorphic robots.

Previous attempts of automation had failed because of 3 mean reasons: Parts are usually too big for an easy handling, parts are made out of composite, and parts have curved forms. In consequence, those parts have huge dimensional tolerances, they easily bend; and it is extremely hard to always fix them in the same position.

EINA solved the problem by copying the human behavior, and developed a tracking tool, which is able to track a surface without previous programming, either applying a constant force to the tracked surface, either keeping an offset to the tracked surface.

This protected technology enables robots to carry out tasks which had never been able to accomplish before. It makes possible the replacement of the human labor by anthropomorphic robots which mean a reduction of production's costs and a better control of the production process and the quality of the product.

The solution has already been set up within the wind sector, and first Installations are already running, and much more other installations are forecasted for the near future.





Company Presentation

GRUPO EUSKAL FORGING is a world leader manufacturer of seamless forged and rolled rings up to a maximum outside diameter of 8 meters and a maximum weight of 30 tons. We have been active in the on-shore wind business for many years supplying to the top wind turbine, gear box, bearing and tower manufacturers.

We are also leaders in the off-shore wind business where we have supplied our products to key projects like Bard I, Alpha Ventus, Thornton Bank, Lincs or Nordsee Ost among others

Business lines

GRUPO EUSKAL FORGING offers added value services, integrating several steps in the supply chain (ring rolling, turning, gear cutting, welding and manufacturing of sub-assemblies) in order to become a one stop shop to our customers. It counts with more than 45000m² of covered area to carry out its activity.



Products

Seamless rolled rings for the following industries: wind, petrochemical, capital goods, nuclear, metalworking, hydroelectric, military, shipping & offshore, mining, paper, cement.

Wind energy products:

Seamless rolled rings for tower flanges (flat and neck flanges), slew rings, ring gears for gear boxes, rings for bearings (pitch, yaw, etc), tower blade extenders, and sub-assemblies among others.



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= exact



structure they need to achieve results. With this knowledge we provide software solutions that support every business activity and give real-time insight into the entire business. This gives our customers the freedom to successfully address challenges and opportunities, creating value for their customers and ultimately for themselves.

Business lines

Exact has developed a vertical solution that covers all processes in this industry, including wind farm, photovoltaic and bio fuel energy companies

Products

Exact Green Energies:

Exact Green Energies is a vertical solution based on Exact Synergy and Exact Globe, which was developed specifically for the renewable energies sector

Projects

Acciona – ABB – Besel – Guascor - Grupo T-Solar - Atersa (Grupo Elecnor) –Assyce- Grupo ENHOL

Company Presentation

We started serving the entrepreneurial world in 1984. We have grown from a student start-up to a global solution provider and have been listed on the nyse euro-next amsterdam since june 1999.

Our entrepreneurial roots constantly remind us that adding value for our customers is what we are here for. With employees spread across subsidiaries in 40 countries we serve local and international companies in more than 125 countries and provide our solutions in more than 40 languages.

Serving entrepreneurial businesses is at the heart of what we do. We understand their mindsets, how they collaborate within their business community and the



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de
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Company Presentation

Ejector driving force of short and long displacements

The elevator that present has been designed with new improvements with respect to the existing thing at present.

The mechanism is composed by a framework-flange and in its interior is lodged a case with a keyed that unites head-on with the reducing one, this case carries lodged in the center and in the sides a drill of 40mm, en which two balls of steel are lodged and in the lower part, goes supported by an axial running.



At present other systems exist, that perform approximately the same function, but employing a completely different and very old system, that never will be able to come to obtain the security, and low manufacturing cost of this. The current apparatuses in operation that exercise these movements, they suffer greater wear, and they are of but low performance, and security; the mechanism as a group, would be able to be resembled currently to any reducing motor that did the function of impulsion and expulsion, by means of cable or steel netting tape, and central hydraulics; but without suffering the high mechanical wear of the pieces and the high manufacturing cost, due to the Simplicity of the mechanism, being translated all this in a greater security and economy.

This apparatus is composed by a Motor-Reducing one of Crown Great quantity, in its sides, carries adapted two pans or frameworks with flange, and in its interior a mechanism is lodged, that is fed head-on of the reducing one, through a case with a keyed , that moves in rotation two or more balls of 40Mm., on a helicoids shaft, with a long advance that does that be tremendously efficient and sure.



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the company responsible for conduct the activities within the area of energy and sustainability, with activities in the field of renewable energy, energy efficiency, co-generation and energy recovery of waste. During the year 2011, in addition to the consolidation of the wind, photovoltaic business and the implementation of solar thermal activities and energy efficiency, the objective of FCC Energía is to analyze the growth opportunities in the sector of renewable energy that may occur either by making participation in new projects or through the development of new projects in Spain and in Eastern countries belonging to the European Union, the United Kingdom and USA.

FCC Energía has invested over 1,000 million Euros in renewable energy projects. FCC Energía owns and operates in Spain 14 wind farms which add up to a total installed capacity of 422 MW, and two solar photovoltaic plants of 10 MW each. FCC Energía is currently developing and building two solar thermal power plants. Those plants will have a rated power of 50 MW each.

FCC Energía, through its 100% subsidiary EFITEK, develops energy efficiency projects and provides energy-related services.



Company Presentation

FCC, a company specialized in public services, was created in March 1992 through the merger of two prestigious companies: Construcciones y Contratas, founded in Madrid in 1944, and Fomento de Obras y Construcciones, founded in Barcelona in 1900 and listed on the stock exchange since December of that year. FCC currently is a member of the Ibex 35 index of the most liquid stocks on the Spanish stock market.

FCC is the parent company of one of Europe's leading citizen services groups in terms of both revenues and profitability. It has traditionally focused on growth through diversification: originally founded as a construction company, in 1911 it branched into municipal services with a contract to clean and maintain Barcelona's sewer network.

Its business portfolio is now highly diversified. FCC's core businesses are environmental services and water management, construction of large infrastructure, cement production, and renewable energy production.

It has a footprint in 54 countries worldwide and over 44% of its revenues come from outside Spain (mainly Europe and the US).

Revenues in 2009 amounted to 12.700 billion euro and the group had 92,324 employees.

FCC maintains the interest in diversification its business to the energy sector as it is one of the main objectives of the FCC group. Since the end of 2008, FCC Energía is



Company Presentation

Formerly a manufacturing industrial group, Duro Felguera has developed into a high value-added engineering service provider and project development company in the last decade.

Business lines

Business is focused on 3 areas:

1. Large turnkey industrial projects

- Energy sector
- Industrial facilities, mining and handling, steel making and other
- Fuel storage

2. Auxiliary services: assembly, operation and maintenance of industrial plants

3. Manufacturing of capital goods



4. Manufacturing of components for asynchronous wind turbine generators

- Hubs
- Bearing boxes
- Shafts
- Nacelles & casings
- Supports
- Towers

FCM is currently manufacturing welded and machined components for the main wind turbine designers and manufacturers

Products

• Equipment for the steelworks industry

Rolling mills, continuous casting, ladles
Boom shears, milling towers, coilers

• Off-shore

Swivel stacks
Chain tables, Suction anchors

• Hydraulic energy

Turbines and generator parts
Gates, ducts and cofferdams
Valves and distributors

• Cranes

• Power Systems

Equipment for HRSGs
Inducted Draft Fans (IDFs)
Heat exchangers, mills

• Components for wind turbines

Rotor+Stator, Shafts, hubs, etc.

• Equipment for large civil works

Tunnel Boring Machines and Back-Ups
Components for Research Centres (CERN, FERMILAB, ESO.)



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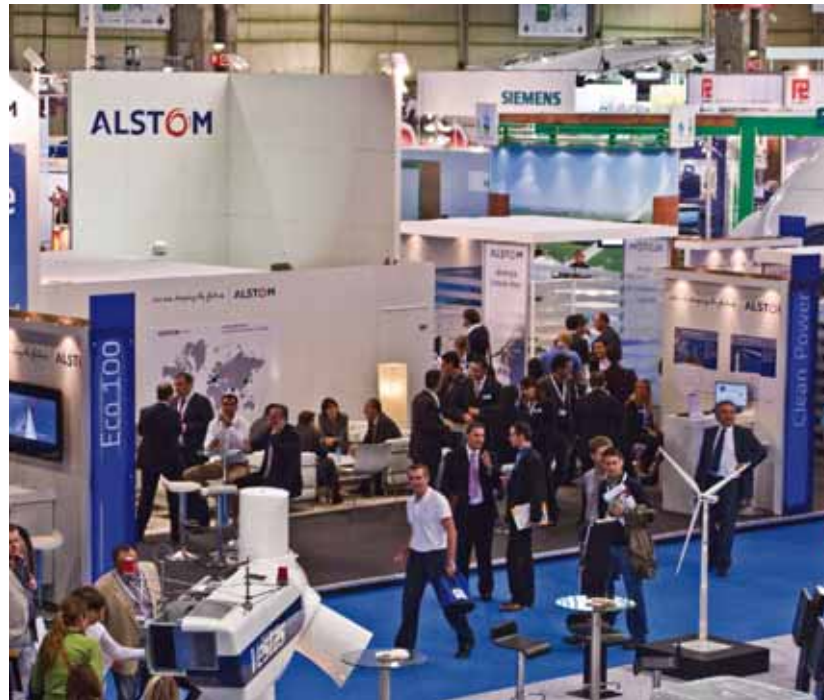


Company Presentation

Feria de Zaragoza is one of the leading fair organizations in Spain, hosting top international fairs and trade shows for professional audiences around Europe.

Today Feria de Zaragoza is a leader in primary sector equipment, construction, and capital goods as well as machinery.

The functional and all-purpose fairground has a total surface of 360.000 square meters, distributed in 11 pavilions of different sizes as well as large outside areas. It is situated at the foot of the highway, and is therefore easily accessible directly from the main Spanish cities. It is only 4 kilometers from the Fair to the airport and 7 kilometers to the urban center. In addition, Zaragoza is reached by excellent high speed train connections from the main cities of Spain (within 1.5 hours) and by air to the main European capitals.



The Zaragoza Expo Centre hosts since 1999 the International Sustainable and Efficient Energy Exhibition, PowerEXPO. From the very start, PowerEXPO has been a point of reference for the wind-power industry and starting from 2009 was created Wind Power EXPO, a professional trade show. This has pushed it towards the international markets, in terms both development and projection.

Zaragoza is in the north east of Spain, strategically situated in the center of the main economic areas in Spain, where 80% of the of GDP is produced. Investment in the International Expo 2008 event has provided Zaragoza with a rich selection of hotels and accommodations as well.

Fersa Energías Renovables, S.A.



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Company Presentation

Fersa Energías Renovables was founded in Spain in 2000 as a Renewable Energy Producer and is the first independent Spanish wind energy player to be quoted on the Spanish Stock Exchange and one of the first in Europe, dedicated exclusively to the development of clean energy. Fersa's aim is to generate electricity using 100% renewable sources.

Wind energy is our main activity, accounting for 98% of the total installed capacity and almost our entire portfolio of projects. The remaining 2% of the total installed capacity comes from solar and biogas energy plants and we are currently researching and developing biomass projects.

Fersa has an installed capacity stands at 186.5 MW till September 2010, distributed between Spain, France, Poland and India, 1,007 MW authorized and/or under construction and is developing a further 1,620 MW. On December 2009, Fersa has obtained a total of 253.77 MW in the pre-assignment registry for special regime installations in Spain.

Today Fersa is an International Company with presence in Spain, France, Poland, Turkey, India, Panama, China, Estonia, Montenegro and Italy and holds an attractive portfolio of assets in operation and under construction and an internationally diversified pipeline which provides it with high growth potential.



Projetcs

Projects in Operation:

Company	MW
Eólica El Pedregoso S.L. (wind)	29,7
Eólica del Pino S.L. (wind)	14,9
Parque Eólico Hinojal S.L.U. (wind)	36,0
Gestora Fotovoltaica de Castellón S.L. (solar)	1,1
Invetem Mediterránea S.L. (biogas)	2,0
Parc Eolic Mudefer S.L. (wind)	12,6
Parc Eolic Mudefer S.L. (wind)	45,0
Total Spain	141,3
Eoliennes de Beausemblant, SAS (wind)	12,0
Eólica Kiselice Sp. zoo (wind)	2,0
Rest of Europe	14,0
Generación Eólica India Limited (wind)	31,2
Rest of the World	31,2
Total MW in Operation	186,5

Projects in construction:

- Eólica Kiselice Sp.zoo. Kiselice SWT wind farm 22MW (Poland)
- Hanumanhatti wind farm 50MW (India)



Company Presentation

Fluitecnik was founded in Pamplona, Spain in 1991. In its 20 years of existence, Fluitecnik has developed the best solutions for more than 1000 clients around the world, several of which are among the top OEM's in the wind energy sector.

Today, Fluitecnik has 275 employees, in addition to more than 20,000 m2 of manufacturing space distributed over plants in Europe, China, and United States. These strategic locations worldwide allow Fluitecnik to attend to the needs of its clients, and offer a personalized service. In addition, this streamlines operations, thus reducing costs of manufacturing, and allowing to supply according to the local needs of clients worldwide, often localizing the supply chain.

At Fluitecnik, the core competency is in the area of fluid power. We specialize in the design, development, manufacturing, and supply of all types of products and applications related to fluid power in a wind turbine. But that is not our only area of expertise. From hydraulics, to cooling, and lubrication systems, thousands of wind turbines are operating around the world with Fluitecnik components. All wind turbines, large and small, on-shore or off-shore, contain some component that can be developed by Fluitecnik.



The following are the three keys to the dynamic growth of Fluitecnik:

Design optimization:

The requirement for reliability, quality, and durability of products demanded by our clients is continually increasing.

Fluitecnik's philosophy is clear. Working hand in hand with both our clients and suppliers, we ensure every product and solution developed is customized to the exact needs, and will be of the highest quality.

Product quality and control of manufacturing:

Product quality begins in the initial stage of design where close cooperation with the client defines the characteristics which each solution must comply with, and the trials and tests which must be carried out. At the same time, we use this stage as a springboard for simple and efficient final assembly, which will eliminate problems during manufacturing.

Our products are certified according to the requirements of our customers, and to international standards (ISO-CE-UL-CSA, etc).

Service:

Our service covers all stages of the supply chain starting with the design of the product, purchasing materials, and reserve stock. We maintain technical support, after-sales service, and retrofits and repairs, to meet your needs.



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Company Presentation

Frenos Iruña designs, develops and manufactures hydraulic brake solutions for windpower turbines, automotive and off-highway vehicles (tractors, excavators, dumpers, forest machinery among others, all related in general to agricultural and public works).

Within the Frenos group we operated a cast iron (grey & nodular) and aluminium foundry facility.

ISO TS 16949, ISO9001 certified.

The Frenos business is 80% export worldwide mainly in USA, Europe, South America and India with supporting distributions centres (Winsconsin, Chicago, Coimbatore and Tianjin).

Main customers:

- Windpower: Gamesa, Acciona
- Automotive: Renault, Nissan, Land Rover, TRW
- Off –highway: JCB, Claas, Nacco

Business lines

Frenos Iruña has a full-time R+D multidisciplinary working team that develops the new products: from design, prototype build & validation through to industrialization. Our team works closely with the customer to optimise the outcome in each project taking advantage of the know-how learned during 50 years working experience. 12% of the Frenos Iruña turnover is invested in R+D new product development, as shown by the number of patents applied for during recent years.



Products

Products for Windpower:

- Main drive shaft
- Yaw position control brakes.
- Cast components up to 20 Kg

Company history:

- Founded in Pamplona in 1958
- 1970 - Start to work on OEM
- 1997 - Gets the ISO 9001
- 2001 - Profit centres organization
- 2002 - Gets the ISO-TS 16949
- 2003 - Collaboration agreement with TRW (new products). Caliper and drum brakes.
- 2004 - Collaboration agreement with Stop Ibérica and Pierburg
- 2004 - New factory and facilities with 8000 m² (22000 m² in total)
- 2005 – Open Windpower Division.



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Products

APPLICATION POINT

LUBRICANTS

Pitch & Yaw Adjustment Bearing

gleitmo 585 K
STABYL EOS E 2
STABYL LT 50

Pitch & Yaw Adjustment Tooth System

gleitmo 585 K
STABYL EOS E 2
CEPLATTYN BL
CEPLATTYN ECO 300 Plus

Rotor Main Bearing

STABYL EOS E 2

Generator Bearings

URETHYN E/M 2
URETHYN XHD 2

Clutch & Braking Systems

gleitmo 585 K
STABYL EOS E 2

Main gearbox

GEARMASTER ECO 320
RENOLIN PG 320
RENOLIN UNISYN CLP 320
RENOLIN CLP 320

Yaw & Pitch reduction gear systems

GEARMASTER ECO 220
RENOLIN PG 220
RENOLIN UNISYN CLP 220
RENOLIN CLP 220

Hydraulic systems

ECO HYD S series
PLANTOHYD series
RENOLIN HVLP series
RENOLIN HVI 32 GA

Fasteners / assembly aids

gleitmo WSP 5040

Rapid rust removers

FERROFORM LOCC
RENOCLEAN SK 555

Service and added values

- Minimization of lubricant references
- Optimization of lubrication routes
- Calculation of lubricant quantities for first fill and re-lubrication
- Oil and Greases Analysis
- Lifetime cycle studies
- Compatibility & Miscibility tests
- Field Assistance for flushing and inspections (Trained Sales Engineers)



Company Presentation

The FUCHS WINDPOWER DIVISION is one of the world's leading manufacturers of special lubricants and release agents. The range of products includes concrete release agents, adhesive lubricants, lubricating fluids and greases, pastes, lubricating varnishes, aerosols, glass processing media and metal forming lubricants – a total of over 1,000 special products that are precisely tailored to their respective applications.

The result of this focused and innovative approach is a product range that leaves nothing to be desired and no area of application uncovered.

The FUCHS WINDPOWER DIVISION has the expertise to solve all lubrication challenges posed by the wind turbine manufacturers, the makers of the drive components as well as the wind farm operators. A wide and high-performance range of special lubricants are thus available to customers in this sector.

The FUCHS WINDPOWER DIVISION offers a broad product portfolio of special lubricants for all wind power applications. Many approvals of turbine, gearbox and bearing manufacturers as well as suppliers of filtering systems prove the high performance and quality of our products.

For more information, please visit our website: www.fuchs.es or contact with us in fuchs.solutions@fuchs-oil.com



Fundación CIRCE – Centro de Investigación de Recursos y Consumos Energéticos



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Company Presentation

CIRCE – Research Centre for Energy Resources and Consumption – was established in 1993.

CIRCE's first commitment is with energy efficiency and renewables energies. The research and development activities cover four main areas in the energy sector: assessment of resources and processes, electricity generation, transportation and distribution and the efficient use of resources.

From its headquarters in Zaragoza, CIRCE collaborates with enterprises and institutions for the promotion of technology innovation and for the transfer process.

CIRCE was recognized as a National Innovation and Technology Centre in 2001 and it is also a Mixed University Institute of the University of Zaragoza.

Currently, CIRCE has a staff of over 170 full-time people including researchers, collaborating professors and administration staff. Since its creation, the Centre has been self-financing through its projects and work, and has conducted more than 1.200 projects, being the 2009 approximated budget of 6 M€.

CIRCE has a highly qualified team to develop the below-mentioned activities related to the wind sector. Among all the facilities owned by CIRCE, stands out the Electrical Metrology Laboratory (LME), which is the unique laboratory with ENAC accreditation to perform grid quality tests in Spain.

Business lines

Lines of activity in the wind sector

- Wind turbine power performance and power quality evaluation
- Wind turbine and wind farm modelling
- Integration of renewable energy and its connection to weak grids
- Measurement tests in wind turbines and power grids
- Wind energy site assessment
- Wind farms tracking and predictive maintenance
- Audits of wind farms operation



Patents derived from the activity carried out in the sector:

- Voltage sag generating equipment: WO2008125718
- Measurement system for power curve and power quality testing in wind turbines, and supply quality: WO2008107507

Projects

Main projects

Following, there is a list with the main projects where CIRCE is/was involved:

- SINTER: Intelligent systems for electrical grid stabilization
- EOLIA: Technology for offshore wind farms, located at deep water
- AZIMUT: Offshore wind energy 2020
- ACEE: Increase the competitiveness of wind energy
- REVE: Wind regulation with electric vehicle
- DENISE: Smart, safe and efficient energetic distribution





Company Presentation

TEKNIKER is a technological centre and legally constituted as a private not-for-profit Foundation. Its mission is to help the industrial sector to increase its innovative capacity by means of generating and applying technology and knowledge in order to be more competitive.

In the wind energy sector, Tekniker-IK4 has over 15 years experience in connection with the design, control, monitoring and maintenance of high-power wind turbines. Related jobs of for wind turbine manufacturers have included the production of mechatronic simulation models (mechanics and control) of the turbine, the development of advanced machine control algorithms, the design and optimization (FEM) of key elements (i.e. pitch driving system) or the development of complete monitoring systems.



On the other hand, the Eibar-based technological centre has developed bio-lubricants for the system's mechanical elements and has acquired a vast experience in applied tribolubrication through projects and services for important wind farm operators. Such projects include field and on-line monitoring and instrumentation of lubricants, in addition to advanced maintenance.

The resume working lines for the sector are:

- Lubrication of critical elements and bio-lubricants.
- Mechatronic simulation and design.
- Equipment monitoring and instrumentation.
- Advanced maintenance strategies.

Tekniker has participated in Windlider project and has collaborate with wind turbine manufacturers in different development projects.

TEKNIKER is an active member of REOLTEC and EWEA.



Gamesa Corporación Tecnológica



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Company Presentation

With more than 20,000 MW installed in twenty-seven countries on four continents, Gamesa is one of the world's leading companies in the design, manufacture, installation and maintenance of wind generators.

Gamesa has 30 production facilities in Europe, the US, China and India and an annual production capacity of 4,400 MW. The company also has over 7,000 employees worldwide.

The annual equivalent of the more than 20,000 MW installed amounts to more than 4 million tons of petroleum (TEP) per year and prevents the emission into the atmosphere of about 30 million tonner of CO₂ per year.

Gamesa is also a world leader in the development, construction and sale of wind farms, having installed close to 4,000 MW, and it has a portfolio of more than 22,000 MW of wind farms at varying stages of development in Europe, America and Asia.

Gamesa is listed on the Ibex 35 and forms part of the main sustainability indexes.

Business lines

The presence of Gamesa in the wind energy industry is comprehensive,

- wind turbine design, manufacture and installation
- Development of wind farms, enabling it to leverage its expertise in the areas of development, construction and sales.
- operation and maintenance services provided by over 2,000 highly-qualified professionals equipped to respond to the need for optimal availability and returns on the 12,000 MW under maintenance for over 130 clients.



Products

Gamesa has a comprehensive range of products and services, adapted to all winds and markets. In 2010, Gamesa launched two new product platforms: Gamesa G9X-2.0 MW and Gamesa G10X- 4.5 MW, the most turbine onshore wind turbine in the market. The company is currently designing and developing two families of offshore turbines based on the proven and validated technology used in its G10X-4.5 MW turbine system: the G11X platform, with unit capacity of 5 MW, and other offshore product family with 6-7 MW.



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Business lines

GL Garrad Hassan provides consultancy services in the following areas:

- Onshore wind
- Offshore wind
- Wave and Tidal
- Solar
- Software and Training

GL Garrad Hassan also provides measurement and testing services for wind turbines, under IEC 17025 accreditation:

- power curve performance verification;
- electrical power quality and low voltage ride-through;
- noise emissions;
- loads.

Products

- Bladed
- Tidal Bladed
- GH WindFarmer
- GH Scada



Company Presentation

GL Garrad Hassan is the world's largest renewable energy consultancy. It offers independent technical and engineering services, products, and training courses to the onshore and offshore wind, wave, tidal and solar sectors. Although the GL Garrad Hassan name is new, the company has a rich heritage. It is borne of the integration of specialist companies that, united under a single brand, form the renewable energy consulting division of the GL Group. GL Garrad Hassan is a consulting company; it has no equity stake in any device or project. This rule of operation is central to its philosophy, something which sets it apart from many other players and underlines its independence.

With a network of local experts around the world, GL Garrad Hassan's global perspective is informed by local understanding and local resource. The company is uniquely placed to understand the interplay between the technology, geography and environmental conditions, which determine the engineering solutions, and also the policy, economics and regulation, which determine the markets. As a result, its services provide real added-value for clients. When it comes to credentials, GL Garrad Hassan has plenty: it has been the technical authority on wind power for nearly thirty years; its experts are at the forefront of developments in the wave and tidal sector and its achievements in the field of mechanical renewables are now being replicated in solar, its most rapidly growing sector.

Gas Natural Fenosa Renovables



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Company Presentation

Gas Natural Fenosa Renovables is an international company that develops and manages activities focused on the contribution to social welfare and sustainable development in the field of renewable energy. It is present in all major markets in the sector and owned 100% to the Gas Natural Group.



Gas Natural Fenosa Renovables innovation and research serves as a strategic area of its business and has always been a pioneer in new markets and production techniques. The result of this idea involved in the different technologies in the renewables sector, highlighting the wind sector is one of the main references.

Gas Natural's goal is to reach Fenosa Renovables a generation mix that will address future challenges with sufficient efficiency. The activity of the company up to 1000 MW in operation and about 1500 MW in development.



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GE Energy



Building on a strong power generation heritage spanning more than a century, the 2.5 MW wind turbine is evolutionary technology based on a unique design strategy. Higher efficiency, increased reliability, maintainability and seamless grid integration make it a powerhouse of precision. In fact, GE's 2.5 MW wind turbine leads the industry by producing the highest annual energy yield in its class, creating more value for our customers. Drawing on GE's experience of more than 13,000 1.5 MW wind turbines in operation worldwide, the 2.5 MW wind turbine is designed to meet the growing demands of the wind industry. Product evolution is one of the things GE does best and our product strategy is focused on results that contribute to our customers' success. Our reputation for excellence can be seen in everything we do.

Company Presentation

At GE, we know that renewable energy will be an integral part of the world energy mix throughout the 21st century. Our commitment is to help our worldwide partners and customers design and implement wind energy solutions for their unique energy needs.

GE is one of the world's leading wind turbine suppliers. With over 13,500 wind turbine installations worldwide comprising more than 218 million operating hours and 127,000 GWh of energy produced, our knowledge and expertise spans more than two decades. With wind manufacturing and assembly facilities in Germany, Norway, China, Canada and the United States, our current product portfolio includes wind turbines with rated capacities ranging from 1.5 to 4.0 megawatts and support services ranging from development assistance to operation and maintenance.

The 1.5 MW machine is active yaw and pitch regulated with power/torque control capability and an asynchronous generator. It uses a bedplate drive train design where all nacelle components are joined on a common structure, providing exceptional durability. The generator and gearbox are supported by elastomeric elements to minimize noise emissions.





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Company Presentation

GEICALSA promotes, builds and operates installations of production of electricity from renewables with an open nature of integration and the commitment to stay in the sector. It is supported by highly experienced professionals in the renewable energy sector and in particular in the evolution of wind power projects.

Present and future

- 237 MW in operation
- 11 installations running
- 10 MW in construction
- 1,600 MW in promotion
- Headquarters in Miranda de Ebro (Burgos) and offices in different locations throughout Spain
- Offices and projects in Chile

Objectives

- Become a leader in installed capacity in Spain and worldwide
- Continue the process of projects in promotion
- Improve the management of the installations in operation

Vision

GEICALSA will continue working hard in order to improve its efficiency and become a leading company to be perceived as a market reference in the renewable energy sector.



Projects

Projects in operation

Name	Technology	Start-up	MW	Nº turbines	Location
PE Cinseiro	Wind	2003	12	12	Zamora
PE Nerea	Wind	2004	39.75	53	Zamora
PE Los Pedreros	Wind	2005	49.95	22	Albacete
PE Peñarrodana	Wind	2008	35.20	22	Zamora
PE Montamarta	Wind	2008	22.40	14	Zamora
PE El Hierro	Wind	2008	22.40	14	Zamora
PE La Rabia	Wind	2009	21.70	13	Cádiz
PE Cova da Serpe	Wind	2009	24	12	Lugo
PS La Dehesa	Photovoltaic	2010	0.5	22 dual-axis trackers	Burgos
PE La Vega I	Wind	2010	4.8	2	Zamora
PE La Vega II	Wind	2010	4.8	2	Zamora

Projects in operation

Name	Technology	Start-up	MW	Nº turbines	Location
PE Nerea Expansion	Wind	2011	10.02	6	Zamora

Projects in progress with licenses and authorizations

Name	Technology	Start-up	MW	Nº turbines	Location
PE Las Claras	Wind	2013	46.76	28	Burgos
PE Francisca I	Wind	2013	26.25	35	Zamora
PE Rosinos	Wind	2013	25.60	16	Zamora



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towers. From the outset, Gestamp Wind initiates contact with local authorities and other regional bodies so that they can be involved from the beginning in the planning and carrying out of the project with particular attention to the social and environmental needs of the area.

The measuring towers used by Gestamp Wind are equipped with the best equipment available in the market since precision is of great importance in taking the ten-minute interval measurements over a minimum of one year. Although in the short to medium term wind is highly variable in different months of the year and also from year to year, making long-term estimates difficult, Gestamp Wind also relies on wind indicators. Based on the many existing wind farms and other wind measurements, reliable data on future performance can be obtained, although only real and correct measurement, over several years, provides definitive assurance about the wind performance of a particular site.

Construction of a wind farm

The first stage is to construct access roads and the foundations for the turbines. Existing roads are preferred to minimise the environmental impact of construction and if necessary secured with a layer of gravel.

Installation is rapid and is carried out in three stages: the tower arrives first in several segments and is assembled with two cranes



Company Presentation

Gestamp Wind promotes, builds and operates wind farms in the world's leading wind energy markets.

Its aim in the coming years is to become a leader in the sector. To do so, Gestamp Wind is supported by the international platform and industrial capabilities of Gestamp Corporation and a team of highly experienced professionals in the renewable energy sector and in particular the development of wind power projects.

Business lines

Assessment and acquisition of a site.

By means of a variety of sophisticated computer tools, studies are carried out on the terrain, wind potential of the area and connectivity to the electricity grid. Any areas that may have environmental and archaeological constraints, or that are in close proximity to urban centres are identified in advance. Later, a first visit is made to the site, in which the local conditions are studied to verify the location of the site, the layout of the terrain, road access, and to ensure the absence of any vegetation or other obstacles that could affect the flow of air.

Once the site has passed all of these checks, the landowners are contacted and agreements are signed (mainly leasing contracts) for the future installation of the wind farm and power line, as well as the immediate installation of measuring



Gestamp Wind Steel



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Company Presentation

Gestamp Wind Steel is a global wind towers supplier part of Gestamp Corporation, an European multinational that has a unique position of leadership in the steel service center, automotive components and renewable energy.

Our activity started in 2008 with the acquisition of Ganomagoga Group, a firm founded in 1974 which initially focused on the naval sector to later diversify its activity to automotive and finally entered into the wind tower market in 2005. And nowadays we have industrial presence in Spain, Brazil and Turkey.

Gestamp Wind Steel offers complete solutions for leading OEMs in the wind energy market including; manufacturing of wind towers, steel plates management, purchasing of all internal components, surface treatment expertise,...

As part of our globalization strategy, we are currently expanding our activities into new markets and new technologies in order to provide the best products and services throughout the supply chain



Business lines

Manufacturing of wind towers.

Dates

Gestamp Wind Steel current annual capacity is above 1.400 towers.

Projects

Currently supplying all major OEMs.





Company Presentation

GINKO is a HR consultancy specialized in the renewable energy for at least 5 years .

In Spain we are based in Barcelona, Madrid, Sevilla and Las Palmas.

Our international consultants are based in France (Marseille and Paris), Frankfurt, and Abu Dhabi.

We also have partnerships agreements signed in India, Morocco, Chile, Brazil and China with partners consultancies focused on quality policy.

Business lines

- Our Main business activities are based in the two following axes :
- The first one : Professional, middle management and top management recruitment in renewable energies for the Spanish market or international ones (US, Australia, Chile, China, France, Italy etc...).
- The second one : Career management & Professional orientation, coaching and outplacement for top managers .
- We are the HR partner of the aee (spanish wind association) and asif (Spanish association of the photovoltaic industry) whom we created the only Spanish data bases for candidates and professionals interested to work in wind or pv industry.
- Data Base Process.



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Candidates interested to work in the wind industry have to fulfill a questionnaire focused on technical wind competences and on their job experience .

Once it's done They received a personality test. All this information is available under request for the aee's members.

Aee/GINKO data base : More than 1300 candidates

Our team

All our consultants are Senior ones with a huge experience in business units and HR. They receive a permanent wind and FV training program in order to develop a high knowledge of the business and to understand the needs of our customers.

All of them are working in different languages Spanish, English English and Italian.



Global Energy Services Siemsa, S.A.



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Company Presentation

GES has been servicing the energy sector since 1982 and carried out the first wind projects in the beginning of the 90s. Today GES is active in Europe, America and North Africa. Our current growth efforts are focused on Eastern Europe and South America.

H&S stands as the foremost priority within GES Group, no matter the kind of job or the country. Accordingly, we have set up our own Training Centres in Gijón (Spain) and in Abilene (Texas, USA).



Business lines

The services we offer are:

- Plant construction, comprising civil and electrical works together with substation. As of end 2010 we had constructed wind farms totalling 9,200+ MW.
- Turbine assembly. As of end 2010 we had installed turbines totalling 16,600+ MW.
- Plant operation and maintenance. We are currently servicing wind turbines totalling 11,200+ MW. We also maintain the whole plant infrastructure: medium voltage network, substation, ...

GES is also active in the offshore wind sector. Our company took part in the assembly of Alpha Ventus, the first offshore wind farm in Germany.

Significant milestones along 2010

- GES continues expanding in Eastern Europe. In Romania, GES has constructed (BOP) aprox 40% of the installed wind capacity. Main customers: EDP, ENEL.
- GES Turkey and GES Greece have been created in order to start activity in those countries.
- GES Poland becomes the No. 1 service provider in wind with 382 MW constructed, 372 MW in turbines assembly and 542 MW maintained. Main customers: Gamesa, Iberdrola, CE Energy, EDP, ...
- GES enters South America, with the maintenance contract for 60 MW in Chile for Acciona Windpower.
- GES Germany: after taking part in the assembly of 6 Multibrid-Areva (5 MW) wind turbines in Alpha Ventus offshore wind farm, GES provides O&M support.
- GES USA is growing. Premises in Abilene reach full speed, including offices, warehouse and training centre.
- GES Italy keeps being No. 1 service provider with a permanent workload in all wind activities.
- GES Mexico continues to diversify customer base, with projects for Gamesa, Acciona, Clipper, EDF

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Company Presentation

Company founded in 1969 with our own engineering specializing in the automatization of industrial processes: hydraulic and electronic systems. Our aim is TO SATISFY THE CUSTOMER integrating the best turnkey solutions.

Business lines

Design and manufacturing of Power packs

Design and manufacturing of hydraulic cylinders, hydraulic distributors, piston accumulators

Design and manufacturing of electronic hardware and software (electrical pictures, PLCs.) - Sale of hydraulic and electronic components.

After sale Service: adjustment, maintenance, repairs.



Mission, Vision, Values

Mission:

- To provide products and quality services to customers of the industrial sector, creating value of supported form, respecting the environment and with social responsibility.

Vision:

- Generate value to the shareholders providing satisfaction to the customers and to the persons who shape the project

Values:

- Own engineering and Innovation.
- Total quality: in product and service.
- Flexibility and adjustment to the requirements of the customers.
- Commitment, transparency and team participation.
- International vocation.





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Company Presentation

Green Alliance S.G.E.C.R., S.A., founded in 2006, headquartered in Barcelona, is a Management Company registered under the Special Register for Private Equity Companies of the Spanish National Authority (C.N.M.V.) with number 62, and regulated by LAW 25/2005

<http://www.tesoro.es/doc/sp/legislacion/normativa/leyes/19412.pdf>

Green Alliance's mission is to advice and invests in renewable energy projects, mainly on wind farms, photovoltaic plants, and biomass and biogas projects.

History review

- Launched in Q4 2007.
- Final closing took place Q4 of 2008 at Euro 41M.
- European Investment Bank lead investor with Euro 15M.
- Project pipeline originated by sister company operating since 2004.
- Now consolidating asset portfolio and pursuing new opportunities.
- Inviting new investors to come into asset portfolio in Q2 of 2009 through mirrored investment vehicle under management.

Focus:

- On-shore, medium sized (15-40MW) groups of wind farms targeting 300MW.
- Selective investments in Solar PV and Biogas.
- Build up and sell operating portfolio by 2015.

Strategy:

- Project pipeline was secured at early stage of development to avoid paying high premiums
- Two main groups of projects were sold to strategic players in exchange for call options on part of the portfolio at investment cost
- Positioned to acquire from and co-invest with developers lacking financial strength
- Asset aggregation to mitigate performance risk
- Gear returns with project finance and mezzanine facilities



Structure:

- Strategic partners retain development activity
- Call options to be exercised at financial close
- Avoidance of early development risk replicating this framework when possible.
- Otherwise focus on bankable projects
- Exit either with strategic players or secondary market for energy infrastructure

Green Alliance has made several significant investments:

- 16% stake in Catalana de Energias Renovables, S.L., owner of 2 wind farms amounting to 57,6 MW (Tarragona, Catalonia).
- 50% stake in El Conjuero S.L. (13,6 MW), wind farm in Granada, Andalucía.
- 100% Solar Planta (700 kw) in Castilla-La Mancha



Company Presentation

GPtech. is a technologically-based company which offers services and products based in wide knowledge and state-of-the-art electronical technology. Thanks to its origins, the Department of Electronic Engineering of the University of Seville, GPtech. has great capacity to implement electronical technology to control power electronical equipment. These equipments are essential to industrial applications within the energy, environmental, aeronautic-naval, military and others sectors.

Within the energy sector GPtech. is specialized in renewable energies, efficiency and energy saving. With a high-technology base, we offer a wide range of innovative products completely developed with own resources, as well as engineering and consultancy services. We have undertaken important projects within these sectors, some of them carried out with our own innovative developments. We also offer specific engineering service and products for the wind-generated and photovoltaic



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electricity sectors as well as new energy generation based on fuel cells. GPtech. offers complete energy solutions for the most ambitious projects and is proud of being able to take advantage of a resource that is freely provided by the sun in a clean and unlimited way.

Products

Wind energy

- Power converters for energy conversion
- Voltage Sag Compensator
- Advanced Control Systems
- Control Reactive Systems
- Power grid analyzer
- Reactive Control Systems

Solar PV

- Photovoltaic inverters
- Monitoring String Boxes
- Power grid analyzer
- Monitoring System
- Monitoring of the entire facility

Grid quality and energy efficiency

- Power grid analyzer
- Stabilizer
- Power Active Filters
- Light Flow Stabilizer

Third party developments

- Power Converters
- Power load
- Input source

Movility and transport

- Intelligent charging of electric vehicles
- Implantation fo bicycle systems





Company Presentation

Capital Energy was set up in 2002 with the aim of developing offshore wind farms in Spain and other European countries. In 2006, Capital Energy defined its current business strategy, based on greenfield development of renewable energy projects using different technologies Capital Energy seeks to maximize the value creation for its shareholders with a strategy focused on 'greenfield' development of electricity generation assets based on renewable energy sources...

... while leveraging its know-how of the project development process and its institutional network through various technologies such as onshore and offshore wind power, solar thermal and solar photovoltaic power.

Capital Energy's international presence

After initial development of the project in Spain, Capital Energy is currently immersed in an international expansion plan, with selective entry into some of the most attractive markets of Eastern Europe, North America and Asia.

International project development should account for the bulk of Capital Energy's growth in 2010-2013, reaching 50% of projects outside Spain by 2014.



Key strenghts of Capital Energy

Strong Capital Energy track record as a leading independent renewable energy developer with a portfolio of over 8,000 MW that brings ...

- Almost 10 years renewable energies' projects development experience both in Spain and internationally
- Track-record in developing projects with different commercially proven technologies (wind, solar PV, CSP)
- Experience in building close relationships with authorities at all relevant levels: Ministries, Regional and Local Governments
- Extensive experience in regulatory framework definition
- Top-4 management team with aggregate experience in the renewable energies sector

Member of the main sector organizations

Capital Energy is part of the Energy Technology Committee from Galicia, and is member of the Renewable Energy Producers Association, the Spanish Environmental Impact Association and the Wind Business Association among other national and international organizations with a strong and active focus on environmental improvement.



Company Presentation

GER (Grupo Eólicas Riojanas) is a wind energy development company established in 1998. It has been responsible for the development of more than 400MW of wind energy projects on 12 sites throughout the autonomous community of La Rioja (Spain), with others 200 MW in the pipeline. Nowadays these wind farms have 374 wind turbines, with nominal power from 660 kW to 2.000 kW, and are able to produce around 840.000 kWh each year, that is about 50% of the electrical energy demanded by the region where these wind farms are installed. Besides if we think that the energy produces by these wind farms is replacing the same volume of fossil-fueled energy generation, GER's wind farms avoid almost 805.000 tons of carbon dioxide emissions every year.

GER is composed by five companies:

- Iberdrola Renovables La Rioja, S.A.
- Desarrollo de Energías Renovables de La Rioja, S.A.
- Molinos del Cidacos, S.A.
- Molinos de Rioja, S.A.
- Molinos de Linares, S.A.

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The commitment to sustainability is one GER's strategic foundations. In the electricity industry of the region of La Rioja (Spain), GER has been a pioneer in the efforts to achieve the objectives set out in the Kyoto Protocol, which shows the GER's strong commitment to the respect for nature, with the defense of the environment as a hallmark.

GER is committed to provide society with environmentally-sustainable, renewable power generation that creates wealth and value for our stakeholders, which are mainly Fomento de Inversiones Riojanas, Gas Natural Fenosa Renovables and Iberdrola Renovables.

The people who work in our company are our most important asset, because it is in their hands to carry out our plans and attain our goals. Our team of experienced professionals specialize in the identification, design, planning and development of wind energy projects through to construction and operation.

Business lines

Promotion, construction and operation of renewable energies.





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Company Presentation

Grupo Fortuny is a leading company in Sustainable Development. Our motto is "building a Sustainable Future" and this reflects our Approach to our business areas: Real Estate, Renewable Energies and Financial Markets.

Fortuny Energy understands that human capital is the key to a dynamic, solvent and international company.



We are an experienced and motivated team (engineers, architects, attorneys, economists and staff of support) located in six offices:

- Madrid
- Valencia
- Cádiz
- Brazil
- Uruguay
- Turkey

We are an International Group: FORTUNY ENERGY develops projects in Europe: Spain, Portugal, United Kingdom, Germany, Italy, Romania, Bulgaria, The United States of America, Brazil, Uruguay, Colombia and Costa Rica. The Group's goal is to extend operations in Latin America and Europe, as well as to consolidate existing operations the countries mentioned above.

Business lines

Fortuny Energy is a group with an enormous growth potential, which has demonstrated throughout the years to be operating with at a very solid and technical capacity. The group always pursues excellence in its projects; in order to do so, and it relies on a team of first rate professional.

The Group's focus on renewable technologies and sustainable energies has led to the creation of Fortuny Energy, which undertakes ambitious projects with partners in several areas of Renewable Energy. It relies on in-house engineering and architecture teams associate personal of proven experience.

In addition, Fortuny Energy has a strong economic base which guarantees the success of both our own projects and our work for third parties.

Finally, we would like to emphasise the strategic interest of FORTUNY ENERGY in the Latin American market for the project development of Renewable Energies and other Real- Estate projects.



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Data

2010:

- Aggregate proceeds: 160 million of euros.
- Total number of employees: 1200 people.

Wind Farms References

- Coll de La Garganta - Wind Farm. 22 MW
- Quintanilla - Wind Farm. 20 MW
- Sierra de Tineo - Wind Farm. 44 MW
- Celada V - Wind Farm. 26 MW
- Celada I - Wind Farm. 28 MW
- Quadron - Wind Farm. 22 MW
- Hornillos - Wind Farm. 26 MW
- Pumar - Wind Farm. 30 MW
- Curiscao - Wind Farm. 42 MW
- Encinedo - Wind Farm. 30 MW
- Angostillos - Wind Farm. 28 MW
- Belmonte - Wind Farm. 35 MW
- Piedras del Alto - Wind Farm. 34 MW
- Cueva Dorada - Wind Farm. 29 MW
- Los Sillones - Wind Farm. 23MW
- Bodenaya - Wind Farm. 18 MW
- La Bobia-San Isidro - Wind Farm. 52 MW



Company Presentation

ISASTUR Group was born in 1978 and is made up of a group of companies, which carry out different activities, and which share the common trait that they provide their clients with different types of infrastructures, depending on their specific needs, which due to their background and experience are basically linked to the energy sector, providing services in the electrical engineering and installation sector.

In its widely recognized experience in the construction of substations and power grids, ISASTUR Group adds its link with the new energies, participating in construction and maintenance of wind farms and solar plants.

Abroad, ISASTUR Group is particularly active on the Latin American market (with subsidiaries in Chile, Brazil, Argentina and Venezuela), Eastern Europe (Romania and Poland) and North Africa (Morocco and Algeria) market.

Business lines

The main activities of the ISASTUR Group in the wind sector are:

- Wind farms: EPC projects including engineering, civil works, substation, high voltage line construction, and commissioning.
- Substations: Supplying equipment, installing and commissioning all different types of both internal and external electrical substations up to 400 kV (conventional, GIS, hybrid, etc).
- Transmission electric lines: High and low voltage transmission lines.
- Solar plants: EPC projects, from the engineering to the commissioning of the plant.



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Company Presentation

Isolux Corsán is the first Spanish infrastructures company not listed on the stock exchange and seventh in the sector ranking in Spain in absolute terms. Immersed in a growing internationalisation process it is active in 25 countries. Its main axes of growth are concession projects for energy transport, roads and car parks throughout the world, as well as the construction of infrastructures related with the environment. Isolux Corsán is currently leading the market in concession projects in high-voltage energy transport with 9,285 kilometres of lines, it has over 1,685 kilometres of roads in Brazil, India, Mexico and Spain and more than 20,000 car park spaces in concessions. In the photovoltaic sector Isolux Corsán is one of the world's largest turnkey constructors in the sector with more than 267 MW executed in Spain and Italy to which new projects will be added in the near future in the South of Europe, North Africa, the USA, India and Latin America. Its experience in the construction and maintenance of renewable infrastructures (wind farms, photovoltaic plants and factories for photovoltaic modules and biofuels), in addition to investments in companies in the renewable sector, round off its diversification strategy in infrastructures and services. In 2009 the company's registered revenue was over 3.019 billion euros with a gross operating income of 255 million euros and an accumulated portfolio of 25.839 billion euros.



Business lines

In wind-farm development, Isolux Corsan carries out the promotion, construction and operation of wind farms, including all the stages: site identification, wind resource exploration, permitting, construction and operation, in Spain and in another countries.

Isolux Corsán also offers its clients the "turnkey" modality including engineering, site management, civil works, supply and assembly of electric equipment substations, medium voltage networks, transformer substations and subsequent commissioning. In Spain Isolux-Corsán has built wind-farms and related infrastructure in some locations for a wide range of clients.

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Company Presentation

GRUPO ORFEO is a leading company in the development and supply of innovative solutions. We design and manufacture fire protection systems for the wind energy sector. We have a wide range of specialised products and services, as well as an unbeatable technical team that will design specific solutions including the best retrofitting for your equipment. The success of our products is the result of our extensive experience in research and development in all of our activities.



Business lines

- Supply and maintenance of fire fighting equipments against fires.
- Design of protection facilities against fires for wind turbines.
- Fire fighting formation.

Products

Orwind System :

- Passive Protection.
- Automatic detection and extinguishing for wind turbines.

Projects

- Passive protection for Vestas wind turbines.
- Supply and maintenance of fire fighting equipments for Vestas, Gamesa, Suzlon and others.

Guascor Servicios, S.A



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Company Presentation

Guascor Servicios is the division of the Guascor Group specializing in Exploitation, Operation and Maintenance. We have developed our own technology, applying the latest cost-effective practices and process improvements for the plants to ensure optimal economic performance.

GS has a broad experience in the following fields Wind Energy, Solar Energy, Waste Treatments, Cogeneration, Tertiary Sector.

GS activities are guaranteed by a Quality Management System with AENOR accreditation, according to the ISO: 9001/2000.

GS is committed to improving the processes continually and ensuring that quality programs are implemented at every plant where we provide O&M services.

Since GS was founded, it has provided integrated technical services of the highest quality, security, and environmental safety.

GS, in continuous growth, has around 300 professionals taking care of its maintenance services.

Health & Safety is a priority at GS. We are responsible for all the people who work for the company.

Business lines

For over 10 years GS has offered all kind of services for the wind energy market according to client requirements, with a broad experience in Retrofits, Corrective Maintenance, Erection and Commissioning of wind-driven power plants.

Nowadays, GS is operating and maintaining, with presence in site, 388 wind turbines of 512 MW of total installed power and an electrical generation of 1.140.000 MWh/year with high availability.

GS is also specialized in offering special services, such as technical project management or repairing wind turbine rotor blades. These services have been carried out in Spain and other countries like USA, Greece, China, Portugal, Italy, Dominican Republic, Egypt, France, México or Morocco.



Products

- Preventive Maintenance
- Corrective Maintenance
- Maintenance Supervision
- Project Management in Wind Farm
- Audits
- Blade Inspection and Repairing
- O&M Service Contract

Dates

- Nowadays, operation and maintenance of 512 MW in wind farms in Castilla León, Aragón, País Vasco, Castilla La Mancha y Andalucía.
- Staff of 100 technicians.
- Experience with different technologies
- Document management through its own intranet

Projects

Guascor Servicios operates and maintains wind farms in different areas of Spain with a power installed of:

- Aragón: 51 MW
- Castilla León: 25,5MW
- País Vasco: 10MW
- Castilla la Mancha: 76 MW
- Andalucía: 349,2MW





Company Presentation

Guascor Wind is a diversified and energetic group depending on Grupo Guascor that begins its activity in 1996 when Grupo Guascor decides to take advantage of its know how in the wind sector.

Guascor Wind is involved in wind energy working as developer, constructor and owner offering O&M services through Guascor Servicios

Its management team has one of the largest over the years gathered experience in the wind energy sector.

Business lines

Our line of business includes all the products life cycle:

- Engineering & Development, covering all the necessary activities, such as: sites identification, feasibility studies, micro-sitting, wind resources measurement, environmental, geotechnical and noise studies, grid connection, relationships with owners, local authorities and utilities, handling of permits and authorizations
- Construction & commissioning. Projects management, obtaining all the permits, quality, health & safety measures, environmental control, and turn key projects
- O&M of wind farms through Guascor Servicios operation, monitoring & power forecast, as well as electrical & mechanical maintenance and administrative management.





Company Presentation

Gurit is a world-leading, advanced composites group specialized in Wind Energy, Tooling for WE business unit, Transportation and Marine applications. Gurit has a unique technical capability within the composites industry combining all of the key skills to deliver technology solutions for structural composite applications.

Originally an European-sparked market, Wind Energy has become a global industry. That is why Gurit WE main production sites are located all over the world in countries like Canada, Spain, Great Britain and China (both Business Units located, Wind Energy and Tooling).

Wind Energy Business Unit in Gurit has the most comprehensive materials, technology and services offering. Our product portfolio includes: Prepregs, SPRINT, structural cores (CorecellTM; PVCcell G-Foam, G-PET, G-Balsa), RENUVOTM Blade Repair System, infusion resins, adhesives, gelcoats and other surfacing solutions, tooling... Above that Gurit offers to its customers kitted structural parts and technical assistance on-site.



Key focus of Gurit is on securing its position in prepreg technology and rapidly expanding the position with non-European and non-infusion blade builders.

In Tooling, to enhance the Group competences, Gurit (through Red Maple) follow the global market trends like plugs and moulds as critical components for blade manufacturers. As a specialised mould maker, Red Maple offers lower cost, solid quality and high capacity and it is growing the export business from China. It offers materials like tooling pastes and prepregs; master plugs, moulds, shear web mould sets, and hydraulic mould turn-over sets heaters.

Red Maple holds strong 30% share in the Chinese market and provide of material and equipment innovation and offering bundling. Red Maple has a diversification of customer base and the ambition to develop low-cost prepreg blade moulds.



Company Presentation

Hidrafilter is a company born in 1992 dedicated to the manufacturing of leaked units for decontamination of lubrication hydraulic oils, improving hydraulic and lubrication systems in the wide spectrum of the industry.

Its first contact with wind generators manufacturers comes in the 90ths.

Business lines

The profile of its clients is, mainly, manufacturers.

Hidrafilter operates in several markets: wind generator, termosolar, cogeneration, metallurgical, naval, aeronautical, machine tool, railway equipment, etc.



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Products

Hidrafilter offers filters for lubrication systems, air filters for wind generator's gear boxes and flushing equipments for gear boxes's test bench. Moreover Hidrafilter has its own laboratory to offer its customers a service of analysis of hydraulic fluids (laser particle counter, microscope...), being this service one of the tools that helps Hidrafilter to win its customers confidence.

Data

Hidrafilter works under ISO 9001-2008 certification, looking for better efficiency in all its services and products.

Hidrafilter

Hidráulica y Filtración



Hine Renovables, S.L



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Company Presentation

HINE has 35 years of experience providing hydraulic solutions to all type of industries and 17 years, in particular, to renewable energies.

HINE RENOVARABLES develops, designs, manufactures and commercializes hydraulic systems and components to wind, solar and other renewable energies.

Actually HINE RENOVARABLES has its own offices and manufacturing workshop in Spain (Europe), Langfang (China), Pennsylvania (USA), Sao Paulo (Brasil), Chennai (India) and in Goldaming (UK) with an aim to become more accessible and to be able to directly respond to the worldwide customer's needs.

HINE RENOVARABLES R&D team, thanks to its own qualified people and sophisticated laboratory and facilities, provides the adequate oil – hydraulic solutions to the customers. In the close collaboration with the client, HINE RENOVARABLES invests time and know-how developing prototypes and carrying out all tests and quality control measures to guarantee the best performance at real conditions.



Products

- Hydraulic power units
- Hydraulic pitch manifolds and cylinders
- Power units for rotor & yaw brakes
- Cooling systems
- Filtration
- Fluid connectors





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In addition IBERDROLA Ingeniería is carrying out projects in other countries which have neither subsidiary nor branch offices: France, Ukraine, Turkey, Sweden, Belgium and Switzerland.

Business lines

Our main goal is to execute EPC wind farms for clients in the wind energy sector; as an added value to the client we have in house capabilities to provide the full scope of services related to the a wind farm from the early stages of the feasibility studies to the full operation and maintenance of the wind farm: wind resource studies, engineering studies, construction, control and communications, commissioning and maintenance services.

Specifically in construction, our expertise is the civil and electrical construction of the wind farm, electrical infrastructure for grid connection (substation and high voltage line), commissioning and the full EPC including the wind turbine supply by a wind turbine manufacturer, transport and erection.



Company Presentation

Iberdrola Engineering and Construction is the company within the Iberdrola Group that provides EPC services in the energy sector (renewables, nuclear, conventional generation and grid infrastructures) to clients within the Iberdrola Group and out of the Iberdrola Group. We have contrasted experience in more than 30 countries, a turnover in 2009 above 1,400m€ from which 80% overseas Spain. The strategic growth areas targeted by the Company are: United States, United Kingdom, Brazil, Mexico, Eastern European countries, Russia, Middle East and North Africa.

In the wind energy sector Iberdrola Engineering and Construction has built wind farms totaling over 4,400MW in Spain, Eastern Europe (Poland, Hungary, Bulgaria, etc.) and Latin America (Mexico, Brazil, Honduras, etc.). We have worked in different forms of contract with our clients (EPC either alone or in consortium with a wind turbine manufacturer; infrastructure or BOP contracts, etc) and we have collaborate with the main wind turbine manufacturers in the industry.

Iberdrola Engineering and Construction headquarters are in Madrid, Spain. By the end of 2010 we had subsidiaries in the following countries: Mexico, Poland, Venezuela, United Kingdom, Greece, Germany, Russia, United States, Brazil, Hungary, Italy, Romania, Kenya, Bulgaria, Dubai and Portugal. Branches of the Company are located in Tunisia, Slovakia, Latvia, Albania, Qatar, Fujairah, Egypt, Algeria, Lithuania, Honduras, Venezuela, Germany, Hungary, Italy, Romania, Kenya and Bulgaria.



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Company Presentation

IBERDROLA RENOVABLES is the top wind energy company in the world by installed capacity, output and project portfolio, thanks to a rigorous management model, which is primarily based on three cornerstones: foresight, performance, and a workforce that is young, professional and deeply committed.

The Company's aim since inception, of becoming a long-term industrial business, has also led it to develop a strategy based on sustained growth, operational efficiency and financial soundness.

Present in over twenty countries and with operating assets in the most important markets worldwide, IBERDROLA RENOVABLES has consolidated its position as the leading wind energy company in the world in capacity (12,531.8 MW; +16,5%), output (25.405 million KWh; +25,8%) and portfolio (62,028 MW), and is now an international benchmark within the sector. Likewise, IBERDROLA RENOVABLES is at the forefront in the development of offshore wind power projects, promoting initiatives adding up to a total of close to 10,000 MW worldwide.



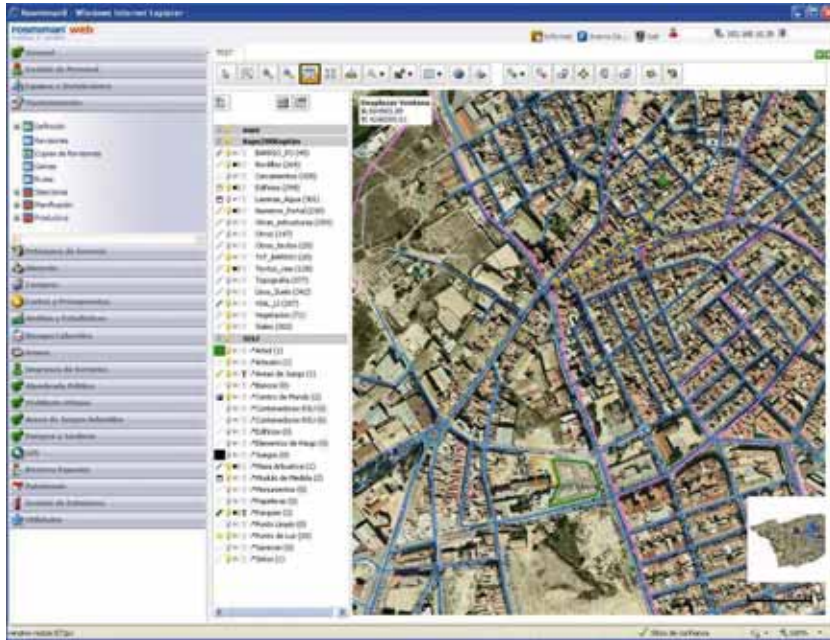
Onshore wind energy

IBERDROLA RENOVABLES consolidates its global leadership in the wind energy business with a total capacity, at the end of the fourth quarter of 2010, of 12,136.05 MW. The geographical breakdown follows: 5,302.58 MW in Spain, 4,633.72 MW in the US, 931.95 MW in the UK and Republic of Ireland and 1,267.80 MW in other countries worldwide

Offshore wind energy

IBERDROLA RENOVABLES is well-placed to lead the future development of marine energy technologies in Europe, regarded as the second renewables revolution. At the start of 2010 the company created an Offshore Business Division in Scotland to channel the development of the large volume of marine wind power projects awarded to the company. These amount to around 10,000 MW worldwide and will be added gradually to its project pipeline. Specifically, in partnership with Vattenfall, IBERDROLA RENOVABLES have begun the first phase of the 7,200 MW East Anglia Array offshore wind project, which is capable of supplying five million households.

Furthermore, the company has another 2,300 MW under development in the UK, most notably the 500 MW West of Duddon Sands facility (developed together with Dong), construction of which will begin in 2012. These offshore projects come on the heels of others under development in a number of areas in Europe (northern Europe and Spain), with an additional 2,500 MW.



Company Presentation

Idasa Sistemas S.L. is an engineering company, with more than 15 years of experience, specialized in MMS Solutions (Asset Maintenance Management Solutions). Our mission is to help our customers, through advanced IT solutions, to manage more effectively all tasks related with asset maintenance.

ROSMIMAN® MMS is a product based in new technologies, characterized by its robustness and high reliability. It covers all specific needs of our customers, adapting perfectly to their requirements. With ROSMIMAN® MMS; Idasa Sistemas S.L. provides your company with a comprehensive maintenance management solution endorsed by more than 1,500 users in 10 countries.

ROSMIMAN® MMS is for customers with development plans or projects to implant management and maintenance asset solutions. Our innovative product is focused on sectors such as Industry, Energy & Utilities, Real Estate & Facility Management, Professional Services, Public Administration, Health, Environmental, Traffic, Transportation and Automotive.

Business lines

ROSMIMAN® ENERGY

Our ROSMIMAN® MMS solutions for the energy and utility industries combine state-of-the-art technologies and best-practice services to effectively manage your assets, service operations, service personnel, equipment, stocks, suppliers, and costs; thus allowing your service staff to take better decisions.





Company Presentation

IED Greenpower is a Spanish company involved in the design and manufacture of electronic equipment targeted at renewable energy industry.

Our objective is to increase our presence, solid and stable in the renewable energy market.

First, IED Greenpower cooperates with the development of products under measure based on the technical requirements of our customers.

Not only but also, our objective with these products is to incorporate our knowledge in the production process of the companies that require our services in order its products acquire high levels of quality and competitiveness.

IED Greenpower is R&D customer oriented and has a direct communication Manufacturer-Customer. Those features with our experience in renewable energy sector have made that we were able to create a range of products focused on electronics for the wind turbine sector.

IED Greenpower has developed a lighting system that can work in applications with wide temperature range requirements where no traditional lighting technologies (fluorescents mainly) neither standard emergency kits work properly.

In order to meet the lighting specifications of the wind turbine industry, **IED Greenpower has developed** a technically and economically efficient solution through a **compact lamp** with a design made in aluminium and polycarbonate that makes it **compatible with most of the lamps** that are already installed in wind turbines.

LVD series are specifically designed for lighting the wind turbine tower and is perfectly suitable for using in the nacelles and other parts.

As promotion of our developments, IED Greenpower is attending EWEA exhibition in Brussels, Hannover Messe and Wind Power in Anaheim as exhibitor.

You can contact us at: info@iedgreenpower.com and see a brochure at www.iedgreenpower.com





Company Presentation

InfoPower is a leading magazine regarding the renewable energy sector and other efficient generation technologies. During the last years, it has become part of the Informa group. With 14 years of market presence, it stands out over other publications thanks to the technical strictness of its articles and the quality of its wide descriptive reports on power plants.

Recently, it has taken one more step towards the internalization of its contents and distribution by releasing a digital English edition of every issue of the magazine. It's quite an added value for its customers who, at no additional cost, get broadened support for their advertising while getting simultaneous promotion at both the national and international market.

During last year, InfoPower has managed to communicate its information in a more timely way thanks to its fortnightly distributed Newsletter and the press centre on its website, that gathers and transmits those news that require to be published immediately. Both have been recently translated into English.

Motivated by its will to provide new products in order to satisfy the needs of its readers, InfoPower has united its knowledge and technical rigor to iiR Spain's more than 20 years of experience in the field of developing products aimed towards technical and specific formation for professionals from the energy sector (Power Training).

Moreover, it collaborates with the Feria de Zaragoza in the organization of the wind sector's biggest national fair, Wind PowerExpo



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Company Presentation

IMPLEMENTOS TRACTOR S.A., is a company specializing in medium and heavy fabrication of welded and machined parts of carbon steel material.

Equipment:

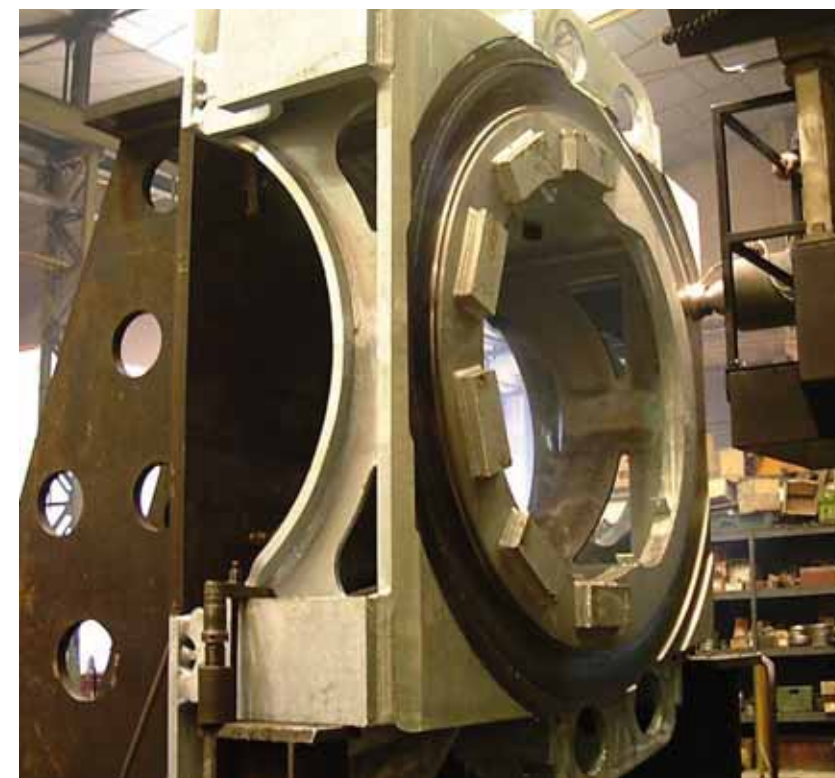
- 2 thermal cutting
- roller (2.5T),
- folding unit (800T),
- milling machine (14m long and 4 m high),
- milling machine (8m long and 3 m high),
- submerged-arc welding,
- semiautomatic units,
- 6 hoist from 5 to 20T.



Manufacturing company areas:

Wind energy components, machinery for public works and assembly up to 20T pieces. The company has certified by ISO 9001:2008 and DIN EN ISO 3834-2; quality department with NDT level II certificate; welders qualification by EN-287-1 and ASME IX.

All these facilities are installed in a industrial plant occupying 3.500 m².





Company Presentation

Incargo is a family business founded in 1989, and actually has offices in Madrid, Port of Las Palmas de Gran Canaria, Tenerife, Barcelona, Palma de Mallorca, Bilbao, Algeciras, Gibraltar, Ceuta, Alcudia, Sagunto and Sevilla.

The Company undertakes the intermediary steps in the importation and exportation of cargo (steel products, paper, wind energy converters, etc.), from arrival or point of origin up to final destination. The company is specialized in project cargoes working for big projects for power plants etc. Port operations, classification, de-consolidation, overland transport (by truck or rail), storage and tax representation up to delivery to the receivers of the goods. In the logistics field, the company handles some 500,000 M/T's of cargo in 2010.

During last years Incargo handled most of wind turbines being erected at south of Spain and Canary Islands coming by sea from abroad. Experience, professional team and passion for our work have taken our company to have the confidence of our clients and partners.





Company Presentation

Indar Electric, a company founded in 1940, has a vast experience in the design, manufacture and technical assistance of ELECTRIC GENERATORS

Our products provide the maximum robustness level and quality guarantee required to meet our clients' demands. Our 50.000 m² premises are equipped with the most advanced technical resources required to design and develop the most reliable type of machines.



In the Wind Power Business we manufacture generators with powers ranging from 660 kW to 6 MW and voltages ranging from 690 V to 12 kV for variable pitch turbines, doubly fed induction generators or synchronous with permanent magnets, and the xDFIG patented and innovating technology, Clean Power Series. Refrigeration air or water cooled, protection degrees ranging from IP-23 to IP-56. Horizontal construction. Up to H insulation,. As per international standards IEC, NEMA, etc.

Customer Service: technical assistance, customised maintenance, repairs and replacement of construction elements.



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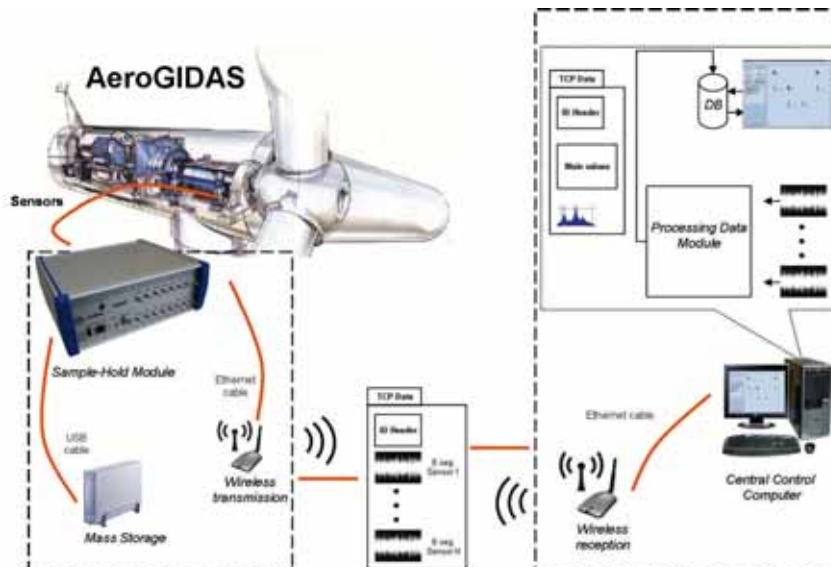


indra

Products

AeroGIDAS is a BCM System for the WTG power Drive. It is a main purpose product, able to work with any gearbox, even of unknown configuration. It measures vibration in different points of the Power Drive and process the obtained data. A SW, based on artificial intelligence establishes the normal behaviour model, detects deviations from this pattern and provides alarms and reports about the system condition.

SIPAM is an Information System for Maintenance Support. It consists on a task planner and a Portable Device (IPAD, Tablet PC, PDA) that goes with the maintenance operator. The operator can see its device all tasks assigned to him with the data or technical documents required, record all tasks performed, introduce notes, open new tasks to be done. The Portable Device will update the ERP when connected.



Company Presentation

Indra is a global company of technology, innovation, and talent, leader in high value-added solutions and services for the Transport and Traffic, Energy and Industry, Public Administration and Healthcare, Finance, Insurance, Security and Defence, and Telecom and Media sectors. Indra operates in over 100 countries and has 30,000 employees worldwide who share their knowledge of different sectors and countries to find innovative solutions to the challenges that clients face.

Business lines

More than 30 years of experience in Maintenance Services & Products for the Defense sector are now running in the renewable market:

- Engineering services for WTG electronics and electro-mechanics: maintenance, upgrades and engineering of different performance problems in the field
- Repair services of electronics for different WTG control Systems: Processor cards and Control Units, IGBT cards, Power Supplies, Voltage Sag Compensation, Communications (CANBUS, FO, RS232 RS-422 RS-485), Digital cards, Displays. More than 2000 units repaired.
- BCM Systems for power drive (AeroGIDAS) and blades (R&D program)
- Independent Pitch Control Systems (R&D program)
- Logistic tools for maintenance support: Open and customizable system, Modular, Flexible to connect with customer ERP. Provides Management Control, Support for Systems, Engineering, Maintenance, Purchasing and Economics control



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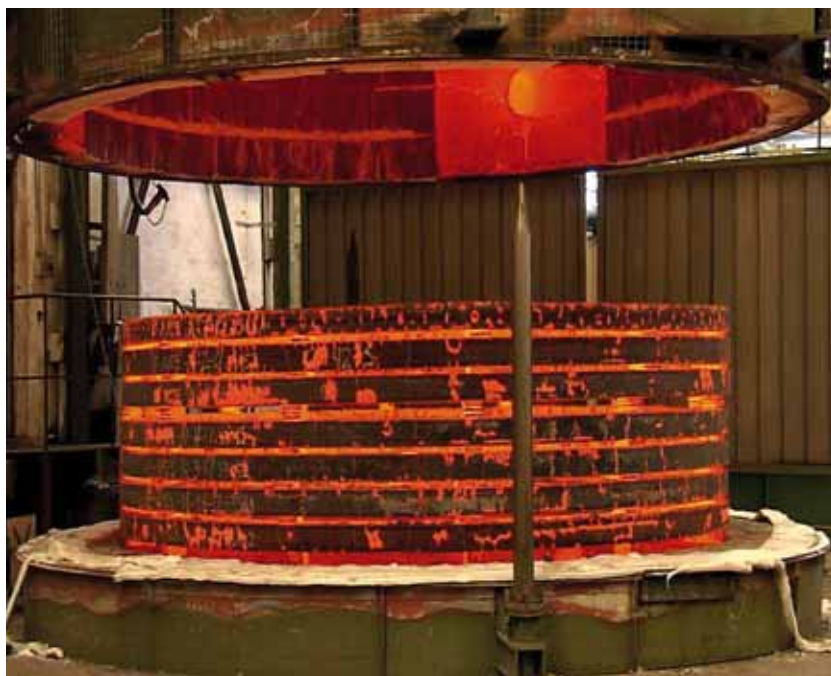


Company Presentation

For more than half a century, INDUSTRIAL BARRANQUESA S.A has been effectively reponding to the needs of the metal industry. Throughout this time, both the market demands as well as the offer of technical resources have constantly changed and INDUSTRIAL BARRANQUESA has always known how to remain at the top of innovation, service and flexibility.

INDUSTRIAL BARRANQUESA has the most appropriate specialist and facilities for the production and mechanisation of FLANGES, HOOPS, RINGS as well as other metal pieces of big dimensions for the WIND INDUSTRY.

An unbeatable customer response capacity, offering the highest of quality, good prices and compliance with deadlines, has brought the trust of most of the international player in the industry that rely on INDUSTRIAL BARRANQUESA for their projects and developments.





Company Presentation

Industrias Laneko S.A.L. manufactures special hot forged bolts of big dimensions, supplying all the fasteners needed in a windmill: foundation bolts, tower, hub and nacelle kits as well as blade studs.

The bolts are manufactured in diameters from M-20 up to M-72 in every quality (8.8, 10.9, stainless steel, refractory) and in every coating (zinc-plating, hot dip galvanising, delta-magni, dacromet, geomet, tricem) according to the customer requirements for onshore and offshore projects.

With a great experience in the windpower sector, and an annual production capacity for 1.000 windturbines, our bolts are installed in windparks worldwide: Spain, USA, Canada, Mexico, China, Korea, Australia, India...

Positioned as high quality fasteners as critical part, Industrias Laneko is certified by the ISO-9001-2008, ISO-14000, and the Ü German structural fasteners certification with the aim of granting the customer the best product and logistical service with a tight relationship with the most important Technical Laboratories, becoming our customers

Partner. The main Technological Centres deal with our prototypes for new windmill models testing.



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Thanks to a continuous investment, our facilities are adapted with automated processes and systems to guarantee a product adequate to our customer needs. Having available a large storage area allows us to deal with our customers "just in time"

Being an easily transportable item we deal through export with more than 40 countries, having also a commercial partner in Brazil named FORMONT S.L, especially devoted to the South American market dealing.

Our philosophy and main competitive advantage is our continuous improvement and flexibility, accompanying our customers in their expansion adventure



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Company Presentation

INERCO Ingeniería, Tecnología y Consultoría, S.A. (Engineering, Technology and Consultancy), well known as a leader in the Industrial field, was founded in 1984 aiming to the management and improvement of advanced technologies that help to the industrial sustainable development, with the highest attention to environment, security and safety and quality.

With deep knowledge of the industrial market and a team of 250 highly skilled specialists, INERCO can supply comprehensive services, matching our clients needs within the following areas:

- Industrial Engineering: INERCO has a wide and proven experience on design, execution and commissioning of industrial installations, combustion processes optimization, energy efficiency and renewable energies plants (Solar, Biomass, wind, biodiesel, etc.)
- Proprietary technologies development: INERCO has developed its own technology in the fields of environmental optimization at combustion facilities, energy efficiency and emissions reduction systems, as well as renewable energies and new-generation fuels sector (Biomass gasification, hydrogen, second generation fuels, etc.)
- Technical Consulting: INERCO has proven experience in the field of environment, industrial safety and Occupational Health & Safety.

Business lines

INERCO focuses its activities around the industrial field, particularly in the following sectors: Chemical, refining, petrochemical, electrical, renewable energies, new fuels, cement, steel, food industry, etc.

INERCO has offices in Spain (Seville, Madrid and Tarragona). Colombia (Bogota) and Peru (Lima).

For the wind farm sector, INERCO offers:

- Engineering
- Project Management
- Construction Management and Owners engineering



- Technical Consulting
- Environmental Consulting
- Environmental Impact Studies
- Environmental Studies
- Authorisations Management
- Health and Safety

Some references

- Cortijo de Guerra II wind farm detailed engineering (34 MW). Eólica Navarra
- Cortijo de Guerra I wind farm detailed engineering (48 MW). WKN
- Detailed Engineering for Civil Works and Electrical Interconnection of 5 Wind Farms in Romania (Mihai Viteazu I, II, III, IV and Baia I). NEK UMWELTECHNIK AG
- Engineering for Electrical Interconnections of wind farms in Romania. NEK UMWELTECHNIK AG
- Special Management Plan of wind farms in Tarifa (Local Administration of Tarifa Town Hall)
- Technical assistance for the preparation of tender documentation for the Wind power development plan in Cantabria. EON RENOVABLES
- "Ignacio Molina" wind farm detailed engineering (8 MW). LUZ DE VIENTO
- Development of health and safety actions for more than 50 wind farms across the entire national territory. ENDESA Cogeneración y Renovables y ENEL GREENPOWER IBERIA





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InCom

INGENIERIA de COMPUESTOS s.l.



Company Presentation

Founded in 1997, InCom specialises in the design, production, assembly and marketing of products and components for the renewable energy industry.

We supply companies in the naval, aeronautical and automotive sectors, which outsource part of their process.

We optimise our customers' designs to obtain a product that perfectly meets their needs.

We design, produce, handle, transform and market composite materials (fibreglass, carbon, polyester and other synthetic fibres). We provide additional mounting services for elements made of composite materials.

We own a 6,000 m² plant located in Elda, in the province of Alicante, which contains cutting edge machinery and a work force of 185.

Its high technological level, its experience and its resources allow InCom to offer innovative products that meet the stringent quality and safety requirements demanded by the industry.

We are specialist suppliers of materials kits and manufactured components such as:

- balsa wood structural cores, PVC structural cores and others
 - transformation and machining of PVC foam cores or balsa wood cores, delivered as kits to be used in hand mould processes or resin infusion systems.
- pattern cutting of fibreglass based fabrics to be used in moulds
 - design, cutting and handling of all kind of fibreglass based fabrics to be

specifically used as kits in certain industrial manufacturing processes of composite materials.

- optimisation of consumption, management, and improvement of forms and patterns.
- fibreglass and polyester structural parts and cores
 - parts and structures fabricated using RTM, RTM Light and manual technologies.
 - design, calculation, prototyping.
 - design and fabrication of moulds to be used in the manufacture of components made of composite materials.
- ironwork, fittings and accessories
 - machining of various materials, processed products and preparations.

Our method

- highly qualified and experienced team
- processes controlled by a quality system
- high-tech machinery and equipment
- continuous investment in R&D

Our resources

- automatic cutting machines specially adapted for fibreglass and composite materials
- CNC machines and 5 axis numerical control machining
- computer aided cutting machines
- adapted facilities with permanent temperature and humidity controls
- testing laboratory
- state-of-the-art computerized systems for design and simulation





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Company Presentation

Ingetrans, S.L. is a company specialized in technical consulting and marketing of power transmission industry in general and particularly of the wind energy sector in particular. Certification of the company's Quality System by DNV is proof of the high quality standards achieved.

Business lines

As a Comer Industries distributor in Spain, Ingetrans, S.L. offers services in sales, maintenance and reparation of planetary speed reducers to control such significant functions like yaw and pitch drives.



Products

Its wind generator drives are distinguished by quality, reliability and safety and can be personalized according to the customer's requirements.

The complete range of wind generator drives covers turbines from 0,65MW to 3MW.

The PG series planetary speed reducers are used by a number of wind turbine manufacturers thanks to their technological features and high performance level.





Company Presentation

Ingeteam is a business group specialized in electrical machines technology, control and power electronics and application engineering. Ingeteam has developed, for more than 30 years, its own in-house electronic and electrical technology which is used in all the business where Ingeteam is active: Energy, Industry, Marine and Railway Traction.

With production facilities in the USA, China, Brasil and Europe and with more than 3.000 employees, Ingeteam has a good track record of product delivery, effective supports and customers services satisfaction to the clients anywhere around the world.

Specifically the Ingeteam wind energy division, since 1995, produces and markets all the electric and electronic equipment required for wind turbines, using the latest design techniques and based on in-house technology by investing in research and development directed at wind energy.

Business lines

Ingeteam wind power products offering includes a wide range of possibilities, allowing customers to select just the right equipment for each particular case, and always with the guarantee of maximum inter-part compatibility and the provision of an integrated expert service. Ingeteam offers solution for PMG+FC and DFM topologies, in low voltage and medium voltage and in the whole speed range for the generators (direct drive, medium and high speed).

Ingeteam is an independent supplier of power converters, electric generators, control electronics, pitch control systems, wind farm holistic management systems in addition to a comprehensive range of services on-shore and offshore.

Currently, more than 14.000 wind turbines are fitted with Ingeteam converters and generators, which account for more than 17 GW of installed capacity.

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Values

The philosophy of Ingeteam is commitment with the customer, service and flexibility. Based on these core principles, Ingeteam products are designed and manufactured to meet and exceed the customers' specifications.

The commitment of Ingeteam to their customers does not end with the delivery of the products. In fact it marks only the beginning of a long partnership built on collaborative agreement for the purpose of maximizing the operation efficiency of the wind power plant throughout the wind power plant life cycle, including commissioning, operation and maintenance, service, inventory management and spare parts logistics.

International Expansion

Nowadays, Ingeteam has manufacturing facilities, service centers and commercial offices in Spain, USA, China, Brazil, France, Italy, Germany, the Czech Republic and Mexico.

Ingeteam





Company Presentation

Since 1999, Ingeteam Service has been providing services related to the Operation and Maintenance of Wind Farms. At present, Ingeteam Service provides services in 65 wind farms all over the world, with a total installed capacity of 2,121 MW. This diverse expertise allows Ingeteam Service to become a strategic partner in executing wind farm maintenance programs.

Our in-house expertise, complemented with our manufacturer agreements, allow us to work closely on Warranty Time Tasks of WTG units in accordance with OEM specifications. In addition, because of being an independent provider, we have developed a strategy based in Tailored Services. We look forward to meeting the Wind Farm requirements, by maximizing site availability.

Ingeteam Service operates in the following countries, with owned Service Centers: Spain, USA, México, France, Germany, Italy, Poland and China.

Business lines

Start up services: Construction on-site Quality Audits, precommissioning, commissioning, OEM retrofitting.

O&M Services: Scheduled Maintenance, Unscheduled Maintenance, Capital Components Replacement, Predictive, Turn Key Maintenance Programmes.

Expert Operation Services: production efficiency analysis, improvement proposal and management.

Blades Services: Periodic cleaning, preventive and corrective maintenance.

High Voltages Services: scheduled, unscheduled maintenance programmes.

Assets Management: Spare parts purchasing, logistic, capital components refurbishing jobs.

Maintenance Engineering Services: work instruction development, performance audits, and maintenance programmes design, Expert Audits.



Data

Our OEM expertise includes:

- Gamesa.
- Acciona Windpower.
- Vestas.
- General Electric.
- Siemens.
- Mitsubishi.
- Suzlon.

R&D Projects

- Technologies for offshore wind farms in deep waters. CENIT-EOLIA Project (2007-2010)
- Research and development of condition monitoring system. WINDCMS Project (CDTI 2009-2011).
- New electric type for turbines. PROFIT project (2008-2010)
- Advanced preventive and predictive maintenance of wind turbines. PRINCET Project (2008-2009) (Contributor UCLM)
- Call for Innovation Projects and Technological Development - CLM with UCLM (2008-2010)
- Project Research and analysis of new methods of operation and maintenance of offshore wind farms on floating structures (2008-2009), Program: 2008-2009 MILESTONE JCCM and FEDER.
- In the research of new methods of operation and maintenance facilities and wind power plants, YAW motors State Prediction, Wavelet and Park. Program: MILESTONE: 4 Research Projects (2009-2010)



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Business lines

The Enhol Group develops, designs, builds and exploits highly energy-efficient, renewable, electric power generation plants –wind farms, photovoltaic and thermo-electric facilities, biodiesel- at more than 20 sites in 16 different countries in Europe, Asia and America.

Its experience in management and its knowledge of markets allows it to provide a wide range of specialised services: engineering, turnkey projects, wind power promotion and resource analysis, market analysis, operation and maintenance control, and R&D&innovation project development.



Company Presentation

The Enhol Group is an independent Spanish company whose main work centres on the renewable-energy sector through the promotion, design, construction and exploitation of highly energy-efficient, renewable, electric power generation plants. In the process of national and international expansion, the Enhol Group is currently developing wind power projects in Spain and 15 other European, American and Asian countries. Its experience, knowledge of the local environment in the countries it operates in and the use of advanced technologies make the Enhol Group one of the most significant players in the renewable-energy sectors of the markets it occupies.

The origins of the Group date back to 1930 and its history is marked by diversification, integrating a total of 50 companies which work in sectors such as renewable energy -the most important sector in terms of size and potential-, farming, services and investment. The Enhol Group has an active social responsibility policy based on contributing to the economic development of the regions it works in, respect and collaboration with the local authorities and, fundamentally, the sustainability of its processes. Its position as a leader in the field of renewable energy is, above all, a direct consequence of the Groups clear commitment to sustainable economic development and the environment.



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Company Presentation

From the very year in which Instalaciones Inabensa, S.A. was founded, it took complete responsibility for activities associated with electrical installations, being these activities the pioneering ones of Abengoa, S.A. since it was established in 1941, integrating highly sophisticated equipment with state-of-the-art technical systems coming from the Electrical Installation and Instrumentation Division of Abengoa, S.A. Inabensa, getting adapt to market needs, joins the Project Finance and BOT area (integrated product) since 2004.

The services developed in these fields cover almost all activities associated with applied engineering, construction and equipment required for the creation of infrastructure. These services have been provided at national level all over Spain, as well as at an international level, including permanent presence in places like France, Portugal, China, Morocco, India, Latin America and Abu-Dhabi.

Human Resources

Total workforce 2636 persons.

- Manual workers: 64%.
- Clerical staff: 15%.
- Graduates (3 years univ.): 12%.
- University Graduates: 9%.

Business lines

Abengoa was one of the pioneers in wind power in Spain. We had an specific area for the development of wind projects, called "Abengoa desarrollos eólicos"

- Proprietary technology
- More than 80 employees
- Capacity installed: 230 MW
- Projects under development: 650 MW

Newertheless, in 2001, Abengoa sold this area to Nuon, a dutch company. The final price was 109 M€. Currently we are trying to regenerate this activity.



Why wind energy now?

- Aligned with our business model, based on sustainable development.
- Linked with our activities in engineering and facilities construction.
- We can develop this activity in those areas in which we have a strong presence.
- We know the financial structure required to develop this kind of projects.





Company Presentation

The Energy Technological Institute (ITE) is a private, non-profit Research Organisation whose services, products and technological projects are addressed to national and international public bodies and companies in the power, electric, electronic and communications sectors. The distribution financing sources is around 50% of private sector and the 50% of public sector.

The institute has around 100 workers, of whom 75% are university graduates and 5% of Professors.

ITE's ACTIVITY

The main ITE's activity is focus in the following lines:

Electric Vehicle: renewable mix, charging station, Battery management system (BMS), and V2G, G2V, V2X, batteries.

Smart-grids: ICTs, integration wind energy into the grids, power electronics, active demand management.

Capital Goods: Small wind turbines, power electronics components, electrical components or.

Interoperability: electrical infrastructure from control centres to smart meters including primary and secondary substations and power quality

Intelligent energy and social perception: IPMVP, energy efficiency, measurement and verification and customer behavior

Energy storage: Fuel cells, batteries, membranes.

ITE's Laboratories

- Renewable Laboratories (Pilot plant, photovoltaic and biomass)
- Smart Grid interoperability of electric power systems
- Quality of Supply
- Storage laboratory (membranes, cells)
- Active demand management laboratory.
- High Voltage Laboratory
- Electrostatics Laboratory
- Measurement of Electromagnetic Fields
- Electrical safety laboratory
- Electromagnetic compatibility laboratory
- Calibration and Legal Metrology
- Notified body under the Low Voltage Directive and measurement Directive

Projects

Storage. SOMABAT: FP7 project focus in battery storage focused in electric vehicle. ETF: Nacional Project focus in technology research and systems for the energy storage methods

Smartgrids: OPENNODE: FP7 project is focused on the electrical distribution grid operation, and include concepts like interoperability, ICTs and efficiency.

Electric Vehicle and Renewable Energy: EPV: Led by Iberdrola, focussing it in the integration of wind power into the grid and the electric vehicle.

Capital Goods : Nacional Project focus in the development of a new urban vertical wind turbine.



Integral Management Future Renewables, S.L.



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Company Presentation

IM Future is a service company specialized, with more than 10 years of experience, in the maintenance, operation and management of the facilities for the production of electricity derived from renewable energy sources.

Our slogan ("Because we try harder") is our identity and it guarantees the success of our clients. With the best-trained personnel, the best means and the greatest dedication, we are the future, today.

In order to carry out our activity, IN Future has a team with broad experience in the renewable energy sector. Our field personnel have been certified by several companies for each of the different models of wind turbines currently operating in Spain.

Furthermore, IM Future has highly-qualified professionals certified by different bodies in the renewable energies sector.

As a company, IM Future is committed to the continuous training of its team with the objective of achieving the most qualified personnel in the sector at all times. This way, our projects are guaranteed to always get the best results.



Business lines

The real alternative to a technological guarantee. We carry out preventive and corrective maintenance, exchange and repair large components, monitor remotely round-the-clock, update availability for the market and offer surveillance, preventive maintenance (vibrations and/or videoendoscope), quality control teams, spare parts purchase, warehousing and maintenance, development of in-house applications for specific purposes and supervision of communications and high-voltage installations, blade repairs. You can leave it to us. We'll take care of



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M64 in different grades: 8.8, 10.9 and 12.9, along with different machined studs customised to the customer requirements.

Blade to hub studs

Different studs adapted for the blade-to-hub connections are provided by INTORD including scant shank studs, ranging M20 to M36.

Tension and torque control

INTORD supplies both DTI Squirter by Applied Bolting for tension control and Tension calibrator SKIDMORE-WILHELM.

DTI Squirters (Direct Tension Indicators) are compressible washers that indicate visually that tension in the bolt has been achieved regardless of friction and bolt conditions. It is a tension control method approved both by the RCSC (Research Council on Structural Connections) and the Eurocode.

Tension Calibrator is a testing equipment to verify that the method that has been used for checking tension is correct. According to the RCSC it is mandatory to use it when using calibrated wrench as tension control method.



Company Presentation

INTORD S.A. is a leading company specialized in providing global solutions in industrial fasteners for Wind Power industry. Founded in 1973, INTORD has supplied high quality and safety critical fasteners for different key industries, especially for renewable energies.

INTORD creates value to its customers in projects with the highest requirements in terms of quality, logistics and traceability. Our competitive advantages are based in customised manufacturing and a great stock of standard products that can satisfy high requirements of flexibility, service, quality and competitiveness

Business lines

Main Product lines for Wind Power industry are the following:

Foundation Studs

INTORD supplies anchor fasteners specifically designed for Wind Power towers, ranging from M24 to M72 in classes up to 10.9. Corrosion protection can be done in different coatings.

Tower Construction

INTORD supplies bolts for the flange-jointed design of the tower according to EN 14399-4, EN 14399-3, DIN 6914, DAST Richtline 021, ASTM A490M and A490 with the corresponding nuts, washers and DTI Squirters.

Sizes range from M12-M64, main required coating are Geomet and HDG as per ISO 1461.

Nacelle bolts and studs

INTORD supplies a great range of ISO 4014/DIN 931 and ISO 4017/DIN 933 in M16-

Inzamac Asistencias Técnicas



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Company Presentation

INZAMAC HOLDING, has been carrying out consultancy services to Spanish companies for 27 years, upgrading their manufacturing processes with the latest technology. Together with the wide experience in the engineering – consultancy sector, the Holding is consolidating its growth and position within the national economy.

In the International field, Inzamac continues growing in the Chilean market and in Latin America, especially in Peru, Bolivia and Colombia and also in Poland and Algeria.

The experience of INZAMAC bases in the development of our works, inside the renewable energies, fundamentally in the following fields:

- Aeolian Parks
- Solar Installations: Thermo solar and Photovoltaic Plants
- Thermal plants

The organisational structure of INZAMAC is compound by different areas, with a human team of high experience in the sector and formed by skilled technicians and with the suitable training to exert his places of work, in addition to the most modern equipment and last technologies, to be able to satisfy the expectations demanded by any Promoter of renewable energies, with the maximum guarantees.



Area of technical assistances

- Management of the execution of works
- Direction of civil and Industrial Works
- Supervision of works
- Topography and measure systems
- Technical Assistances in phase of project and works
- Studies and projects Topography
- Technical Office of support
- Geodesic Networks and industrial topography
- Cartography and GIS
- Environmental Engineering
- Advice to the Promoter
- Environmental Coordination
- Studies of environmental impact
- Projects of environmental restoration

Laboratories of materials of construction area

- Control of Quality of materials of construction

Geotechnical area

- Geological studies and geotechnical
- Mechanical Polls to rotation
- Assistance to the Direction of work

Technical assistances of security & health area

- Advice to the Promoter
- Coordination of security and health in phase of project and in phase of execution of work o Specific Training in matter of Prevention of Labour Risks



Company Presentation

Bearings, 37 years of speciality.

Iraundi, for the past 37 years, has been designing and manufacturing special bearings with a specific aim to accommodate the needs of our customers.

Our workforce comprising of a team of more than 100 professionals sharing knowledge and with a clear customer orientation.

For the production of bearings and special slewing bearings, we have three spacious and modern production plants which combine our production processes enabling us to satisfy the most exacting demands.

Quality

We fully control the complete incoming design, raw material, manufacturing, assembly and final inspection processes, with special attention on the machining, gear cutting, grinding and induction heat treatment.

We have a specialised group dedicated to provide effective solutions to meet each customer's needs.

Precision ground quality Iraundi has focused special attention for the quality of our products.

Our special slewing bearings are only available on grounded quality race tracks, which is achieved by the latest state of art machinery.

Products

Maximum dimensions

Thanks to the latest modern machinery available in the market, Iraundi can produce up to 3200 mm outside diameter Slewing Bearings.

Materials

Our wide availability of materials goes from normalized steel, Chrome-Molybdenum, steel alloys, Stainless steel, and many others.

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Product range

Our Slewing Bearings are fully customised to cover the specific demands of each of our customer.

Our product range includes a single row ball bearing with fourpoint raceways geometry, double row ball bearing, cross roller bearing and triple row roller bearing.

We have the capacity to produce both inner and outer gears, what ever is required by our customer.

Applications

Our Slewing Bearings are used on many different applications where high quality and requirements are demanded.

Load rating calculation

Iraundi offers a full service of engineering, including load capacity and tilting moments the Slewing bearing is going to be applied by FEM (Finite Element Method), given the opportunity to develop each technical solution to each of our customers.





Company Presentation

ISOTROL provides new solutions in the field of Information and Communications Technology (ICT) to renewable energy systems, utilities, industry and services, and public administration sectors.

With over 25 years of experience, ISOTROL is the technological reference point in the field of ICT, enabling the company to offer innovative solutions in the renewable energy sector.

ISOTROL offers advisory services, engineering, information and control systems and technological infrastructures, providing the market with a wide range of advanced sustainability solutions.

ISOTROL maintains a commitment to open software and a strong collaborative approach with customers, academics and business communities alike. Innovation has been constant throughout our history, which has served to improve products and services and meet the increasingly demanding needs of the business environment.



We are experts in designing and developing monitoring and management systems for renewable energy projects that are already implemented in wind, solar, photovoltaic, biomass and cogeneration energy plants.

Our solutions demonstrate the ability to improve the profitability of energy plant operations and to optimize the control over management processes, thus achieving a more efficient and safer use of renewable energies.

The application of our systems contribute to environmental sustainability, providing significant business value to our customers and to society as a whole. Our extensive range of services and solutions in the renewable energy sector include:

- Instrumentation and measurement
- Automation: Supply, installation, configuration and programming of distributed peripherals, PLC and tactile technologies
- Comprehensive real-time monitoring, supervision and total management of generation plants with tailored schemes
- Communications, mobility and computer security
- Monitoring centres and regional offices
- Services management: Systems operation and maintenance
- Consultancy services



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GL certified Ixilflex and Compolink high speed couplings and JFTL torque limiters offer you more protection, more resistance, more endurance, easy assembly and less maintenance always looking for an optimum cycle life cost for any of your projects in the most hazardous environments.

The team of Jaure specialists located in the main regions provides local service with the aim to satisfy our customer's requirements.

Jaure manufacturing plants located in Spain, Slovakia, China, Canada, USA and Mexico assure optimum time to market and supply chain management wherever our clients may require.

Jaure is undoubtedly your Wind global partner offering optimum cycle life cost Coupling Systems, where ever you are, where ever you may need it.

Jaure: Your preferred Wind Partner.



Company Presentation

For more than 20 years, Jaure did supply high speed couplings, clamping sets, disc breaks and torque limiters for the wind industry all over the world.

Our engineers in tight cooperation with both our customers and the engineering companies operating in the Wind industry have developed last generation coupling systems that respond to the most demanding requirements for the whole lifetime of any wind turbine from the few Kw micro-machines to the biggest multi Mw ones where ever they may need to be installed either on shore and off-shore.



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Company Presentation

We introduce ourselves as JERANEAS, an EPC & consultancy firm catering to the diverse needs of the companies engaged in energy industry.

JERANEAS started by ex-wind industry professionals having a cumulative experience of almost 20 years, participating in the technology sector for sustainable energy, particularly exploiting new solutions in the field of WIND POWER.

With rich and proven experience worldwide.

JERANEAS counts with a team of outstanding talent and experience for each and every project it carries out.

JERANEAS incorporated with the purpose of becoming a leader in the infrastructure industry by providing the most cost effective and competitive project development, technical review and manpower service. Oriented to the energy, oil & gas, transportation, telecommunication, and urban infrastructure (water, sewage) sector..

Business lines

JERANEAS, Offers a number of services grouped into three different business lines:

1- JERANEAS provides turnkey projects for industrial and energy plants, particularly in the wind and solar sectors.

We offer the full range of services from early stage to final operation management:

- site investigation/site acquisition
- approval procedures
- design & special engineering (e.g. soil - foundation, earthquake, remote power)
- tendering, awarding, contract design & management (manufacturers & local contractors)
- on- site supervision
- subcontractor services
- commissioning/O&M activities
- investment consulting



Concerning Wind farms, JERANEAS turnkey projects include engineering, works management, civil works, High voltage lines, the supply and assembly of electrical equipment in substations, medium-voltage networks and their subsequent commissioning.

2- The supply of energy plants (Wind, Solar, Gas & Oil plants).

3- The logistic activity in the renewal of the wind turbines in wind farms in operation:

Considering the potential expansion of renewable energies, JERANEAS, was born with the following ideas:

- take effective solutions in response to the demands.
- anticipate the needs of this market, both to ensure continuity in the profitability of the existing business.

We focus mainly in two directions:

- JERANEAS a provider of consulting, engineering and technical services engineering, procurement, and construction wind power projects and one balance-of-plant construction project for wind farms Worldwide.
- Our consulting experience ensures that JERNEaS will find the appropriate solution to meet your individual needs, our experience ensures the speedy realization.





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Products

- Self-supporting meteorological masts:
 - Loira series: Tubular sheet towers, and polygonal section up 120 meters high.
 - Volga series: Lattice towers, made from solid steel tube, and triangular section up 140 m high.
- Electrical towers and metallic structures for transformation and transport of energy.
- Modular building and shelters.
- Comprehensive management of wind farms.

Projects

- More than 40 years supplying structures and electrical towers, for low, medium and high-tension, for electricity distribution and/or transportation, national and internationally.
- Supply of more than 40 turnkey meteorological masts, Loira series, for the major representatives in the Sector



Company Presentation

JIMÉNEZ BELINCHÓN Group is a renowned supplier of integral solutions for the Renewable Energy, Telecommunications, Utilities, Modular and Industrial Construction sectors.

Our success is based on a flexible organization and an efficient management. We are certified by the major European utilities. We act as promoters, developers, installers and manufacturers in the Renewable Energy Sector.

Business lines

JIMÉNEZ BELINCHÓN offers turnkey solutions for meteorological masts, managing and ensuring the quality of the project.

We offer constructive solutions, adapted to every need, according to the present-day local rules of calculation.

- Custom-made design, manufacturing and supply of self-supporting meteorological masts, in the turnkey way, for follow-up and control of wind farms during the production phase, instrumented or not, including its later maintenance.
- Design, manufacturing, supply and assembly of metallic structures for electric substations. Tubular and lattice towers for low, medium and high-tension to evacuate the power produced, in distribution or transport.
- Design, manufacturing, supply and assembly of modular buildings for: Control Centers, Offices, Stores, Workshops, Work Sheds and Shelters. Custom-made projects or under customer's specifications, including architectonic integration in the surroundings (mimicry) and possibility of photovoltaic installation on roof.
- Promotion, development and construction of wind farms.





Company Presentation

Dynamic Sealing Technologies (DSTI) specializes in designing and manufacturing rotary unions & rotary union / electrical slip ring assemblies (RotaRing™). DSTI's products are used to transfer hydraulic oil, chemicals, water, air and a variety of other liquids and gasses from stationary inlets to rotating outlets. When supplied with one of the many electrical slip ring options, the RotaRing™ assemblies can transfer electrical power, signals and data. DSTI offers a comprehensive line of standard rotary union and RotaRing™ products in addition to providing complete specialized rotary union design & manufacturing services.

DSTI offers innovative rotary union designs specialized for wind, solar, biofuel, hydropower & nuclear.

With worldwide growth in alternative energy, DSTI understands the challenges faced by next-generation energy equipment designers. DSTI offers specialized, application-specific rotary unions, including:

- High temperature designs for solar power applications
- Specialized designs for use in nuclear facilities
- Integrated designs for wind turbine blade pitch control applications

DSTI's experienced engineers can develop specialized solutions to fit the unique requirements of each application for next generation energy needs.

Business lines

DSTI offers a wide selection of specialized multiple-passage hydraulic rotating unions designed specifically for wind turbine blade pitch control applications. Many different designs are available, with fluid passage sizes ranging from 12 to 50+ mm. These designs also allow for an electrical slip ring to be mounted to the hydraulic rotating union for power and signal transfer.

Products

The DSTI blade pitch control rotating unions feature hydrodynamic primary seals. These seals have a very close tolerance between the rotating and stationary components to create a non-contacting seal.



This design allows a small amount of oil bypass, which is collected in a low pressure drain chamber within the rotating union housing. The bypass oil is contained and returned to the hydraulic tank through a drain line.

Typical DSTI Blade pitch control rotary union data:

- Maximum Pressure 400 Bar
- Typical Atmospheric Operating Temperature -40C - 50C
- Maximum Recommended RPM 150 RPM
- Suggested Oil Filtration 5 microns or better
- Suggested Oil Type ISO VG32 or equiv
- Oil Purity 17-15-12 according to ISO 4406

Projects

With over 2,000 blade pitch control units in service, DSTI rotary unions offer high reliability and field-proven performance.



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Kinetik Partners

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Business lines

Strategy Advisory service

- Corporate strategy - Portfolio management - Strategic planning

Marketing & Sales

- Business case development – Communications - Consumer insight
- Go-to-Market strategy - Sales & channels - Pricing information

Innovation

- Business model innovation - Breakthrough innovation - R&D strategy

Corporate Development

- Merger & acquisition strategy - Acquisition screening - Strategic due diligence- Divestitures - Joint ventures and alliances
- Collaborative R&D

Government Incentives

- Site selection - Incentive negotiation - Tax abatements
- Investment - R&D+D Grants - People & Training

Economic Development

- Attraction strategies - Cluster development - Diversification programs



Company Presentation

- Enable wealth creation for our European clients by providing high value US market entry options and increasing IP positions in clean energy markets, through technology and advanced manufacturing process innovation.

Goals

- Elevate our clients as global recognized leaders in product development and manufacturing innovation for the clean energy industry
- Accelerate the transition of our clients to market share leading clean energy suppliers
- Develop smart global partnerships for our clients to fast track high margin business opportunities and industry leadership positions
- Create a vibrant and interconnected clean energy value chain cluster by forming technology collaborative to solve clean energy industry challenges
- Become the clean energy consultant of choice for product futuring and supply chain development for industry, governmental agencies and national laboratories.



Company Presentation

Kintech Engineering is a 100% privately held company, completely independent from both investors and developers. We have been manufacturing high quality measurement equipment for almost 11 years and supplies customers worldwide with complete wind assessment measuring systems, including our wind data loggers, sensors, GSM/GPRS as well as satellite communication modules, advanced software and technical support.

We offer both customized measurement systems (including solar radiation systems) and standard wind assessment systems, suitable for extreme weather conditions in remote areas.

We manufacture the data logger (EOL ZENITH) which is the 3rd generation and newest data logger on the market for professional wind assessment campaigns.

Furthermore, the EOL Zenith features new wind data management software (EOL Manager) that makes it easier for you to keep track of all your different wind assessment sites as well as including advanced graphics for sensor trouble shooting and light wind data analysis etc. The software comes with the purchase of one data logger, and can manage an unlimited number of sites.

The better the quality of the components for a wind assessment campaign the better the results.

Important facts about the eol zenith wind data logger:

- Wind speed (anemometers): 10
- Wind direction (wind vanes): 7
- Analogue channels: 15
- Data sampling rate: 1 Hz (IEC-61400-12)
- GPS positioning and internal clock
- Data storage for 5 years on 2 GB SD memory
- GSM/GPRS/SATELLITE telemetry and real time data
- New software (EOL Manager) for managing your wind assessment sites
- New software for advanced graphics including Weibull, Shading analysis etc.



Business lines

Supply of measurement equipment as well as know how and technical support for high quality wind assessment campaigns worldwide.

Products

- 3rd generation wind data logger, EOL Zenith
- General purpose data logger, EOL 2040
- EOL Manager – advanced software for wireless communication (and surveillance)
- Wind farm module for integration to SCADA

Projects

We have carried out hundreds of interesting projects both national and internationally, including the (e.g. the complete wind atlas in Tunisia).





Company Presentation

Konecranes is an industry-leading group of lifting businesses that offers a complete range of advanced lifting solutions to many different industries worldwide. Regardless of your lifting needs, Konecranes is committed to providing you with lifting equipment and services that increase the value and effectiveness of your business.

For over 80 years, we have been dedicated to improving the efficiency and performance of businesses in all types of industries, providing products and services people can trust. With Konecranes, you acquire a unique source of global experience and knowledge combined with local know-how to empower your lifting solutions and increase your productivity.

Business lines

- Service and maintenance solutions for all industrial crane brands, for port equipment and machine tools.

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KONECRANES
Lifting Businesses™



- Inspections, preventive maintenance programs, repairs and improvements, on-call services, spare parts, modernizations, special services such as operational services and consultation.
- Pre-designed components, cranes and material handling solutions for a wide range of industries. Products are marketed through a multi-brand portfolio that includes the Konecranes corporate brand and the StahlCraneSystems, SWF, Verlinde and R&M brands.

Products

For Wind Turbine Applications

The wind power industry demands very strict operation requirements due to the unique environment in which the equipment must operate. The wXN Electric Chain Hoist addresses these requirements with its compact, cost-effective and versatile design.

Benefits from standard features:

- Wide capacity range of 160kg – 1000kg
- Lifting speed up to 32 m/min reduces service time of the nacelle
- Compact hoist with maximum headroom; the hoist is designed keeping in mind the limited space inside the nacelle
- Optimal balance of the hoist is achieved with a trolley construction supporting the weight of the chain
- Chain collector bag purpose-designed for wind turbine application and environment
- Gentle and trouble-free operation of the chain thanks to a metal chain guide and hoist body construction
- 3-phase power supply and reliable contactor control 48V
- Sturdy control pendant and cable
- Increased safety with electrical upper and lower limit switches
- IP55 protection
- Mechanical protection against overload thanks to the friction torque limiter
- Large selection of options and different trolley configurations
- Support through Konecranes' worldwide service network



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Company Presentation

KRAFFT S.L. founded in 1953, is a company specialized in the design, development and manufacture of chemical products. KRAFFT is part of the multinational ITW (Illinois Tools Works). Within this group can be found ITWwind Group, specialized in services and chemical products focused in the renewable energy. We count on an experience and prestigious R&D department allowing them to have an important presence in the most dynamic markets and the most demanding technologies.

KRAFFT develops technical proposals for manufacturers, assembly companies and promoters in the wind and solar sector. The know-how and experience in applied research in diverse markets provides KRAFFT the necessary resources to take an advantageous position, allowing them to offer advanced technical solutions to meet the requirements of technologies in continuous development such as renewable energy, and perform worthy and innovative proposals.



Products

- Chemical products for the Automotive, Industry, Construction and Renewable Energy markets.

Products for the wind market

- 100% of chemical products involved in the assembly of a wind turbine.
- Structural Adhesives and Tacky Tapes for wind mill blades manufacture.
- Lubricants, anticorrosives, pastes, coatings
- All type of sealants, including our own hybrid technology.
- Coolants for gear boxes.
- Foams for acoustic and thermal insulation.
- Grouting solutions for Off-shore wind farms



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electricity from wind gets cheaper all the time.

LM Wind Power Service & Logistics offers a solid expertise, detailed knowledge of all aspects of the blade and a comprehensive operations and maintenance offer ranging from inspection, repair and overhaul to preventive maintenance.

Svendborg Brakes is at the leading edge of the brake technology field. It offers its customers solutions for all braking requirements, for wind turbines and heavy industry.

Products

- LM Wind Power Blades offer a wide range of blades, from 1.3 MW to 6 MW wind turbines. Its latest innovation is the GloBlade® an innovative new blade solution that further increases the competitiveness of wind power. GloBlades® increase the energy production by up to 5% and allows the expansion of wind power into lower wind areas.
- After sales service is crucial to secure the long term investment. Wind turbines are designed to last 20 years and withstand all types of weather. Our main services are LM BladeLife Plus®, LM BladeLife Advantage®, and LM BladeLife Care ©.
- Brakes have >50% market share in the wind industry. We are leading supplier of both yaw and rotor brake systems to the global wind industry.



Company Presentation

The LM Wind Power vision: Together we capture the wind to power a cleaner world. LM Wind Power is the World's largest supplier of components and service to the wind industry.

Throughout our three operational areas, we continuously adapt to changing demand patterns. Our main focus is on improving operational efficiency, while developing new technologies and product solutions for the future.

We strive to be the preferred supplier to the wind industry, respected for our superior design, technology and service, making our customers more successful and wind energy more compelling.

Global manufacturing footprint and in-house research and development

- More than 130,000 blades installed world-wide
- Brake systems supplied to more than 46,000 wind turbines
- 13 production and assembly facilities on three continents
- App. 5,500 employees worldwide

More than one in three wind turbines worldwide carries LM Blades each year saving nature more than 74 million tons of CO²

LM Wind Power Blades is the world's leading supplier of rotor solutions. We work with our customers to increase the competitiveness of wind power by making sure

LM Wind Power Service & Logistics



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Company Presentation

LM Wind Power Service & Logistics is your reliable partner in developing and providing advanced blade services

LM Wind Power Service & Logistics is your reliable partner in developing and providing advanced blade services. With more than 30 years of experience in blade services, our offers are based on broad expertise and detailed knowledge of all aspects of the blade.

We have operation and maintenance support facilities in 15 service centers across 3 regions for difficult and complex repairs. This set up enables us to offer global one-stop shopping for all blade services including fast access to spare parts and blades.

The core objectives for LM Wind Power's service team are fast customer response, quality repair solutions and reducing the expensive downtime of the turbine to a minimum. Our service technicians have detailed knowledge about blade structure and performance which enables them to apply the most efficient repair method.

Concern for HSE are at the forefront of everything LM Wind Power Service & Logistics does. Regular inspection and maintenance stops wind turbine failures before they occur.

Covers the full spectrum of service to customers anywhere in the world

LM Wind Power Service & Logistics has the right specialists, equipment, logistic services and resources and enables quick access to spare parts.

Our offer ranges from on-site inspection, repair, and overhaul, to preventive maintenance and complex repairs in our regional workshops. LM Wind Power Service & Logistics

LM Wind Power Service & Logistics provides well engineered solutions that contribute to solving any service task efficiently and safely. Our experienced Service Engineering Department continuously identifies and develops new solutions to reduce critical downtime, ranging from new technical inventions to customized blade improvements or specialized repair methods and tools.



LM Wind Power Service & Logistics – in brief

- Global Business office in Amsterdam, the Netherlands
- Technology and Business Development office in Hamburg, Germany
- Regional office in Madrid, Spain
- Training center in Schopsdorf, Germany
- In 2010, LM Wind Power Service & Logistics acquires leading US field services provider, Encore Power Services.
- 15 regional service centers on 3 continents, namely
 - **Europe:** Kolding (Denmark); Szczecin (Poland); Schopsdorf (Germany); As Pontes (Spain)
 - **North America:** Little Rock (Arkansas); Abilene (Texas); Grand Forks (North Dakota); Eldridge (Iowa); Portland (Oregon); Gaspé-Québec (Canada)
 - **Asia:** Beijing (China); Tianjin (China); Urumqi (China); Jiangyin (China); Bangalore (India).
- Number of employees end 2010: 402





Company Presentation

MTOI (M.Torres Ólvega Industrial) is a Spanish wind turbine manufacturer, with twelve years of experience of its own direct-drive multipolar synchronous technology. The absence of gearbox and a robust control system allow us to provide:

- Simplicity, robustness and high reliability.
- Higher availability and more simple and economic maintenance tasks.
- Longer product life, increasing the profitability of the wind project.

MTOI is the owner of this innovative wind turbine design technology

MTOI was founded by M.Torres Group to design, manufacture, supply, operate and maintain its TWT product with the most skilled technicians.

Today, MTOI is also offering (supported by the leadership, experience and financial strength of its major shareholder SWEG – Elsewedy for Wind Energy Generation) possibilities for wind farms' co-development, financial assistance and turnkey projects execution.

In 2006, MTOI built a manufacturing plant in the city of Ólvega (Spain).

Business lines

- Design, manufacture and supply of state-of-the-art wind turbines.
- Construction, commissioning and O&M as complementary services to achieve optimal performance.
- Turnkey wind projects.
- Co-development of wind farms.

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Products

Wind Turbines

- **TWT-1.65 MW** (serial) with 1,650 kW rated power and 71/81m steel towers:
 - TWT-1.65/70: 70m rotor for IEC IA wind class.
 - TWT-1.65/77: 77m rotor for IEC IIA wind class.
 - TWT-1.65/82: 82m rotor for IEC IIIA and IIIB wind classes.

TWT-2.5 MW (prototype) with 2,500 kW rated power and 103m concrete tower:

- TWT-2.5/90: 90m rotor for IEC IA wind class.
- TWT-2.5/100: 100m rotor for IEC IIA wind class.
- TWT-2.5/109: 109m rotor for IEC IIIA wind class.

Business Development

Co-development of wind farms and carrying out industrial plans in strategic markets.

Operation and Maintenance

Full operation and maintenance of wind farms, with different contracts models and scopes, focused on three pillars: comprehensive SCADA, preventive and corrective maintenance.

Projects

MTOI is currently building a 61.05 MW wind farm in Libya (37 units of TWT-1.65/82-IIIB model). The project "Dernah I" is the first wind project in the country supplied by a Spanish wind turbine manufacturer.





Maeco Eólica, S.L.

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Company Presentation

Maeco Eólica is a 10 years old private company, settled up in 2001 and nowadays is the second oldest company in the country working 100% in Wind Farms Operation & Maintenance Services.

The headquarter was located in the town of Las Navas del Marqués, Province of Ávila, in the center of Spain. The first operations were Wind Farms Preventive and Corrective Maintenance, but due to the company got experience, more qualified manpower and successful results, the scope of the company was widened towards Wind Farm Global Operation & Maintenance Services, being capable of providing all kind of services in the Wind Farm life cycle.

One of Maeco's added value is that the company has the National approval to work as a installer in low voltage and as a maintenance in High voltage. Its strategic position in the market is based on its great experience in Major correctives, Retrofits, Final warranty inspections, electromechanic assembly and Commissioning operations not only in Spain, also in the world wide market like Europe, China and the next project in USA



R&D

Maeco Eólica is following the way designed in the last years, trying to improve its competitiveness in the Research & Development area with projects and ideas not always related with Wind Farms Operation & Maintenance Services. Due to this, Maeco is always participating in projects and moving into new challenges. That is why we can consider its managers not only as businessmen also researchers and enterprisers.

Internationalisation

Currently, the international industrial capacity of the company is close to 325 Mw abroad. A business plan for USA, China and Spain just settled in motion. The scope of business wants to get every year at least 300 Mw in every country. It must be detailed that this quantity is already got it in China.

In addition, Maeco's quality and efficiency have influenced to foster customer loyalty, for example ENDESA, ACCIONA, GAMESA, NORDEX, GES, MADE. Maeco Eólica can also warranty in all the maintenances results higher than 98% of availability.

Business lines

- Wind turbines operation & maintenance.
- Retrofits.
- Major & minor correctives.
- High voltage maintenance.
- Big components replacement
- Blade inspection & repair services
- Transformers maintenance, cells & high tension wires



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Magtel Renovables



Engineering

- Detailed study of the case in question.
- Drawing up projects.
- Technical and economic development plan.
- Engineering and construction management of lines and substations.
- Engineering and management of construction projects.
- Civil engineering.
- Mechanical engineering.

Processing projects with public sector bodies

- Construction-assembly.
- Electrical connection.
- Launch.

Installation and launch

- Our experience and knowledge of local, regional and national public sector administrative procedures enable us to carry out all the negotiations required to get the project designed up and running.

Post-sales service

- Follow-up of the workings and control of installations.
- Maintenance and safety.

Turn-key services

- Technical and economic viability studies.
- Measurement and drawing up of production forecasts.
- Installation design according to client needs.
- Production of technical projects.
- Administrative management.
- Construction management.
- Turn-key civil works and construction.
- Execution and launch of installations.
- Post-sales maintenance and services.
- Economic and energy monitoring.
- Diagnosis of installations.

Company Presentation

MAGTEL Renewables works on the promotion, engineering and execution of renewable energy generation projects. To this end, it has a multidisciplinary team of qualified professionals with experience in a range of areas of activity, which enables it to undertake projects custom-made to meet the needs of all of its clients.

Concern for climate change has made it of vital importance to diversify energy production; specifically towards sources of energy that are environmentally friendly.

MAGTEL is consolidating as a company that participates in setting up technology projects that serve environmental sustainability.

Business lines

At MAGTEL Renewables we are involved in the following areas of activity:

Energy consultancy and advice

- Detailed analysis of the client's needs.
- Energy audits.
- Economic, urban planning and environmental surveys.
- Management of budgets, billing and tax payments.
- Accounting and regular economic overviews.
- Raising finance.
- Constitution of companies.



Manufacturas Eléctricas S.A.U. – MESA



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Company Presentation

Manufacturas Eléctricas S.A.U. MESA; is an innovative and leading company in Medium and High Voltage smart solutions for different markets and applications.

For more than 60 years and thanks to the customer trust and the capability to fulfil their needs, MESA has developed a wide range of products and references worldwide making records of customer satisfaction.

MESA is part of Schneider Electric since 1990; this combination of common ambitions and similar company culture has result in a great proposal of value in different markets as: Wind Energy, Electrical transmission and distribution, Oil and Gas, Infrastructures and Big Industries. Nowadays MESA is recognized in the Market because of its entrepreneurship, supporting any action in an innovative R&D and a cross culture sales force.

MESA has a straightforward vision about the future; this vision is shown in the new 20.000 m2 factory located in Mungia inaugurated in 2010, which is considered the most advanced factory for MV Switchgears worldwide. This Factory will be the base for the MV solutions of the future.



Business lines

- HV disconnectors for Wind grid substations up to 420kV.
- Primary MV switchgears for Wind collector substations up to 52kV.
- Secondary MV switchgears for Wind turbines protection up to 36 kV IEC Market.
- Secondary MV switchgears for Wind turbines protection up to 38 kV UL –ANSI Market.

Products

- CAS 36 MV secondary cubicles for protection of LV/MV transformers up to 1250 kVA in Wind turbines.
- DVCAS MV secondary cubicles for protection of LV/MV transformers above 1250 kVA in Wind turbines.
- CBGS-0 MV Primary cubicles for collector substations

Data

- MESA has more than 16.000 MW references worldwide in Wind Power applications
- Sales in 2010 of 80 M€ 25 % of it is achieved out of Spain.

Projets

- Shepherds Flat, Arecleoch, Whitelee, SOMA, Mark Hill, Esquileo, HouHai, Capital Hill, La Ventosa Wind farms...





Company Presentation

Background and Track Record

This is a company which has been working in the area of open and distance learning since 1994. It was established in Zaragoza and nowadays it has 46 centres in Spain, 4 in Portugal, 2 in Greece, 1 in Brazil (Sao Paulo) and 1 in China (Beijing).

There are over one thousand people who give support to this open learning multinational.

The essence of their activity is to support those clients who follow their P8.10 System (a system devised by the Company itself) until they successfully reach the goals they set. They are more than a teaching company. They are a coaching and training company.

There are several lines of business:

- Preparation of competitive state exams.
- Technical training.
- Vocational training in «new professions».
- «Custom-made» training for companies.
- MASTER-D Business Training is the division in Master-D which is responsible for designing and developing training activities for companies, institutions and social agents, as well as acting as a consultant for these training actions.
- We develop exclusive training plans for our clients and we also deal with all existing subsidies and grants with the aim of offering the best training option for their workers. Moreover, we adapt our service to ensure the success of any training undertaken. FOR MORE INFORMATION www.empresasmasterd.es or call 902 53 17 71
- Languages (Chinese, Spanish, English).
- Postgraduate courses and Masters.



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www.masterd.com

master.D



The company has its own team developing content, software and multimedia.

Over the past 5 years, more than 25,000 new students have enrolled yearly in Master.D's courses –in addition to the students training directly with companies or institutions–.

The company has collaboration agreements with important universities, companies, institutions and organisations aimed at offering an excellent product and service to customers.

In accordance with its strategic plan, the company plans to reach a turnover of more than 200 million Euros in 2014.

Business lines

Master.D is consolidating as a pioneer company, training professionals for the renewable energies sector and particularly for wind power.

Apart from training professionals for the sector, we can offer work placements in companies and an active job search workshop which our students can use to find a job efficiently.



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Company Presentation

Mateas Abogados is a boutique law firm offering a unique range of specialist legal and regulatory services to companies in regulated markets (markets subject to sector-specific regulation following liberalisation), with a special focus on energy and telecommunications.

Mateas Abogados advises incumbent and alternative operators in those markets on regulatory and competition law issues, as well as on regulatory policy and strategy. It also offers regulatory benchmarking services at EU and national level, allowing clients to put the national regulatory dimension into a broader perspective.

In-depth, specialist knowledge of regulated sectors builds on an experience of over fifteen years, in the course of which Mateas Abogados has: obtained landmark decisions from EU and national regulatory and competition authorities; successfully promoted regulatory changes to increase market openness; helped clients conclude network interconnection and access agreements; and built a solid and fluent relation with regulators and decision makers.



Mateas Abogados' services are tailored to suit the sophisticated needs of all players in regulated markets, regardless of size. Mateas Abogados works proactively with clients to level the regulatory playing field, deal with regulatory risks, and find regulatory solutions that help solve business problems. The boutique also has the ability to act as if it were an internal department within the client's organisation.

Mateas Abogados' practice is international, with a focus on the EU.

Business lines

Mateas Abogados offers its specialist legal services to energy companies, in particular (albeit not only) those involved in renewable energy production. The boutique advises clients in this field, amongst other, on: the applicable national and EU regulatory frameworks and their prospective evolution, foreseeable regulatory risks, licensing regimes, inter-operator access conflicts, competition and state aid, and also represents energy clients in legal procedures at national and EU level.

In March 2010 Carmen Mateas, managing partner at Mateas Abogados, was appointed Secretary General of the Spanish Wind Energy Association.



Company Presentation

The Atmosphere and Solar Radiation Modeling Group (MATRAS) started its research activities in 1998, being focused in meteorology applied to renewable energies. Our team has been educated in Physics, Computer and Atmospheric Sciences. Our team collaborates with the Wind Division Risø DTU (one of the most important research center in the world) in wind mesoscale modelling topics.

Currently, we are Vice-Chair of the Working Group 1, devoted to Power Forecast, and Spanish representative in the European COST Action ES1002 (WIRE: Weather Intelligence for Renewable Energies) for wind and solar resources forecasting. We are also involved in the most prestigious scientific committees worldwide on solar resources as the Task-36 group of the Solar Heating & Cooling Programme of the International Energy Agency.

Our wind products have reached a high maturity based on our solid research experience in weather modeling and our vast number of contributions to international conferences and international scientific journals. Currently, we offer wind products in two main lines: evaluation and forecast.

Both are based on Numerical Weather Prediction models, the state-of-the-art in weather modeling.

MATRAS has optimized these tools based on exhaustive sensitivity studies to outperform most of the commonly used configurations.

1. Wind Power Evaluation - Wind field at several altitudes at 1 km of grid spacing, every 10 minutes. It is especially devised for pre-feasibility studies. Furthermore, more exhaustive evaluation products are offered by MATRAS, such as a high spatial resolution (100 meters) wind fields using microscale modelling.

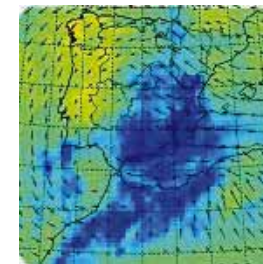
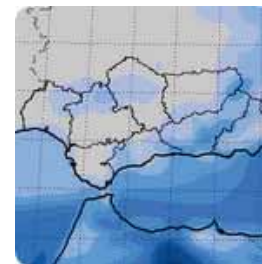
Wind Power Evaluation can also provide the most efficient wind turbines with the highest production based on parameters, such as occupation factor.

2. Wind Power Forecast - Up to seventy-two hours of wind field forecasts at several altitudes for a given site or region.

Our experience in wind power assessment is demonstrated by several works conducted with the Andalusian Department of Energy and other private companies.

Business lines

- Consultancy services
- Wind power forecast





Company Presentation

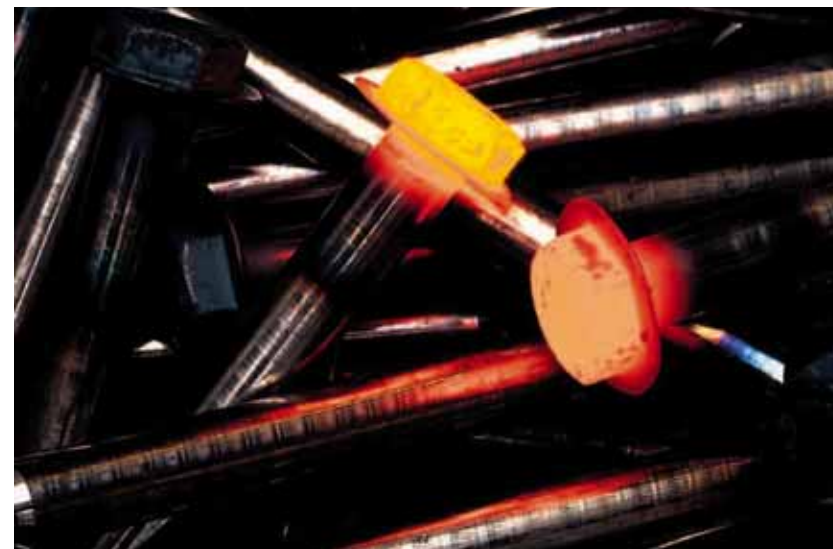
Matz-Erreka S.Coop. belongs to Mondragon Corporation and was founded in 1961 with a long –standing business experience . Its innovative way of working and its global vision of the market allow it to offer a wide range of products and services to the Wind Sector from their locations in Spain and Chicago .

Matz-Erreka is supplying the Wind market already for 20 years what has allowed it to grow up together with the sector and has permitted it to adapt itself to the different conditions and requirements both from the technical point of view:

- ISO 9001 – CE Marking – Ü zeichen – ISO 14001 – OSHAS 18001 –
- Larger diameters
- Alternative materials for impact test requirement at -40°C
- Special coating
- Others

As from the logistic :

- Supply in customized kits
- Global thinking – global supplies
- New Factory in Chicago
- Others



Business lines

Wind Energy Products - services and engineering :

- Manufacturing and distribution of fasteners for critical joints : Tower flange bolts kits - blades studs – foundations and nacelle
- VMI managed programs
- Functional analysis of bolted joints
- Advanced tightening strategies for installation
- Fasteners equipped with ultrasonic transducer for direct load measurement

USA address:

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Sugar Grove IL 60554 -8203



Company Presentation

MCR International is a specialized Executive Search Consulting Firm that started its activity in Spain in 1999. MCR belongs to the International Group MRI (Management Recruiters International) which is the largest, fastest and most effective Executive Search Organization in the world. MRI Network has more than 900 offices in more than 35 countries in the five Continents. This produces immense benefits for our valued clients whom have access to the right candidates anywhere in the world.

We believe that our knowledge of your industry is the best guarantee of success. Our Search Consultants have a reputation as industry experts. Often they have worked in the industries they serve before joining our organization. Interacting in their marketplaces on a daily basis, they can locate, screen and recommend exceptional Candidates.

We are specialized in the search, identification and evaluation of the best professionals in the Utility and Renewable Energy Sectors, and thanks to the MCR Internatio-

nal Division, we not only operate in traditional markets throughout the Europe and U.S., but also in challenging markets such as Eastern Europe, South East Asia and South and Central America.

Business lines

MRI / Executive Search.

MRI is the largest executive search organization in the world, specializing in recruiting services for top level executives. We understand that leadership capital is the prime source of competitive advantage. We provide our clients the individualized personal attention that builds lasting partnerships.

By utilizing processes of Executive Search or Direct Search, we cover a range of positions from CEO level to senior management levels. For key positions we also can work in middle management levels.

Talent / Human Resource Consulting

Finding the right talent also enables us to offer a wide range of Human Resource Services from acting as an Assessment Center, Executive Coaching, Personnel Recruitment and E-recruitment, to Human Resource Outsourcing, Individual and Group Professional, Development Assessment, and Outplacement.





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Company Presentation

mel Composites is a technical and commercial company dedicated to the composite materials since 1994, offering the best solutions for advanced structures by the use of composite materials for the construction of blades and nacelles.

The company offers global solutions to the client needs, offering the complete range of required materials backed by a highly qualified technical support.

- **Technical support** The company Technical Services can assess in the selection and definition of the most suitable materials and building methods considering cost and quality.
- **Structural calculations** Considering the load demands, the technical department can develop the structural calculations, specification and drawings.
- **Technical support on vartm** The Technical Services can guide any company into the resin infusion techniques; starting with a theoretical background, on site training and building of the first full size units, material selection and definition, equipment and required installations, strategy definition, material supply and weight and cost analysis.

Business lines

mel Composites supplies materials, training and technical support on composite materials for the construction of blades and nacelles.



Products

- Structural cores for sandwich structures
- Glass fabrics, unidirectional and multiaxial
- Polyester, viniléster and epoxy resins and adhesives
- VARTM and RTM dry adhesives for resin infusion process

Projects

- Supply of core kits for the construction of sandwich structure blades.
- VARTM set up for 1,5 and 3,5 Mw windmills

For confidential reasons, names are omitted.





Company Presentation

MeteoGroup is Europe's largest private sector weather provider, with a worldwide customer base and operations in Europe and the USA.

Founded in 1986, the company has an unrivalled reputation for quality and innovation in weather forecasting. MeteoGroup is a full-service weather business providing bespoke weather information and consultancy to professional markets including transport, energy and the media, as well as to consumers worldwide.

Business lines

Fields of activities within the wind industry. MeteoGroup provides weather information across the life cycle of wind installations in the four key areas of a site's development and operational management:

- Power Resource Assessment. MeteoGroup provides comprehensive historical data sets for any location worldwide through a constantly updated global archive of weather information that covers the last 40 years.
- Construction and Installation. MeteoGroup's dedicated web-based products are produced specifically for client's operational requirements and displays ac-

curate, hour by hour ground and hub height weather information, as well as marine conditions for offshore projects such as buoy and observation data.

- Operations and Maintenance. MeteoGroup provides a comprehensive O&M service for Renewables creating a platform for better site efficiency, constant analyses in performance, safeguard technology and the fulfillment of health and safety requirements.
- Power Output Forecasts. MeteoGroup is renowned for the accuracy of the site specific wind and marine power output forecasts it provides for renewable power generation projects across the world. Using global and meso-scale weather prediction models in combination with surface data and high-resolution topographic modelling, MeteoGroup delivers the most accurate forecasts in hourly time steps up to 15 days ahead.

Products

MeteoGroup offers a wide variety of services to its customers in all areas worldwide. From MeteoEarth, a revolutionary tool for televised weather presentation, to SPOS, a state-of-the-art onboard weather advisory system, including web-based forecasting tools for the building or energy industry as BuildCast or WindCast.





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Company Presentation

Meteosim Truewind brings extensive years of experience in consulting services for renewable energy development. Meteosim Truewind is a private Spanish company headquartered in Barcelona Science Park and partner of the North American AWS Truepower LLC, both specialized in renewable consulting services. The company has offices in Albany and Austin (USA), Barcelona (Spain), Guanajuato (México) and Bangalore (India).

Meteosim Truewind actively supports solar and wind project development both on land and offshore. Meteosim Truewind is a world leader in the development and application of advanced atmospheric simulation models for wind energy resource mapping.

Business lines

The firm offers a suite of solutions including:

- Site identification and evaluation
- On-site resource measurement
- High-resolution resource maps (MesoMap®, SiteWind®)
- Online prospecting tools (windNavigator®)
- Wind farm design and optimization software (openWind®)
- Micrositing, design layout and optimization
- Grid interconnection analysis
- Energy production estimation and loss analyses
- Photo-simulation, viewshed, shadow flicker and noise analyses
- Post-construction system testing and performance evaluation
- Due diligence and independent engineering review
- Energy and power production forecasting
- Grid integration studies

Products

The MesoMap® system

MesoMap® is the most advanced wind mapping system in use today, and is also the most widely tested and validated. It has several advantages over traditional wind



resource assessment methods. It operates without the need for surface wind data. It simulates important meteorological phenomena not captured in most other models, such as katabatic (downslope) mountain winds, channeling through mountain passes, lake and sea breezes, low-level jets, temperature inversions, and surface roughness effects. MesoMap® directly simulates long-term wind conditions, thereby eliminating the need for uncertain climatological adjustments using correlations between short- and long-term surface measurements.

The SiteWind® system

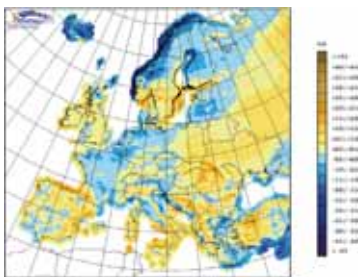
SiteWind® is a site assessment and micrositing tool which couples advanced, high resolution models with onsite data. SiteWind outperforms conventional micrositing models such as WAsP, and even relatively sophisticated CFD models, in complex wind climates. Case studies have demonstrated improvements of up to 40-70% in accuracy compared to WAsP. SiteWind® final microscalar resolution is 100-50 m and it is compatible with leading wind plant design programs such as WindFarmer and openWind and is accepted for project financing

WindNavigator

windNavigator® is a web-based platform for delivering high-resolution wind resource data and maps to customers in the wind industry. The system presently covers the United States, Canada, India and Europe.

openWind

openWind is a highly configurable toolbox for engineers and scientists. With an interface patterned after geographical information systems (GIS), it is exceptionally flexible, user-friendly and well-adapted to today's complex wind farm design challenges.





Company Presentation

MLS Intelligent Control Dynamics (MLS) is a wind energy business focused on the design, development, engineering, integration, manufacturing, sales and after sales support of advanced control systems for wind turbines. We build control applications to enhance the performance and profitability of medium and large scale wind turbines.

Business lines

At MLS, we design and deliver control algorithms and control design software, supply programmed turbine controllers, and manufacture complete wind turbine pitch and yaw systems to wind turbine manufacturers and wind farm owners/operators that increase their profitability through availability excellence, useful life extension and enabling technologies for improved control strategies. MLS integrated control systems allow owners to execute an operating strategy for optimum life-cycle. The operational flexibility afforded by our patented intelligent control of turbine loads provides superior fleet management capability, maintenance flexibility and improved overall turbine availability.

Products

The MLS product and service offering is divided into two groups focused on distinctive customer applications:

Control Solutions

- Controllers
- MLS Toolbox™ 2.0
- Intelligent Actuator® for Individual Pitch Control
- Control Engineering Services

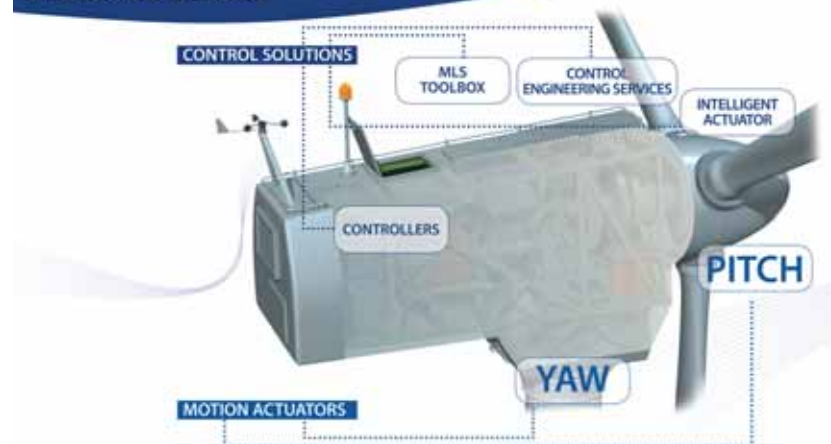
Motion Actuators

- PX™ Pitch Systems
- YX™ Yaw Systems

The MLS team offers unrivalled expertise in the area of wind turbine motion control systems. The MLS team works with a variety of key manufacturer's machines, including medium-scale and multi-megawatt models for differing applications such as cold-climate, low-wind, onshore and offshore wind turbines.



PRODUCTS & SERVICES

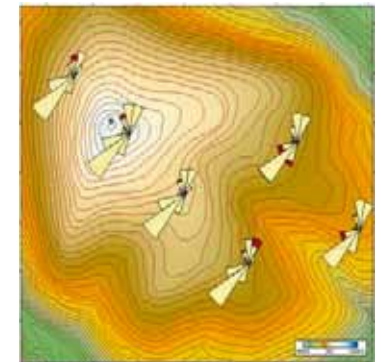
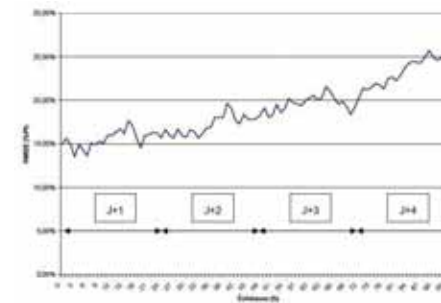




Company Presentation

Modeliza has extensive experience in wind energy engineering providing support to wind farm owners, developers and engineering companies. Main services include:

- Pre-feasibility study: Modeliza helps developers choosing suitable sites for wind development. Initial wind assessment can be made based on meso-scale modelling wind maps and/or data of a nearby meteorological mast. Site constraints, including environmental or grid connexion restrictions, are identified. Advices are provided on suitable turbine models.
- Wind measurement campaign: Modeliza helps developers to design measurement campaigns, providing advice on equipment supply and installation, and optimum location of the meteorological mast. Registered data are regularly downloaded and verified. Monthly report may be provided including average speeds, wind rose, turbulence levels, wind profile and energy output estimation based on registered data.



- Wind resource assessment: Wind resource assessment is based on WAsP flow modelling software and includes wind data analysis, long-term wind correction and calculation of loss factors to ensure a reliable estimate of energy output. The study may include uncertainty analysis for financial decision making.
- Wind project engineering and management: Modeliza offers technical support at design stage with the objective of optimizing the energy output and minimizing the environmental impact. Projects are optimized to suit administrative and environmental requirements for development permit and may include civil work layout, electrical design, as well as economical feasibility study.
- Wind farm performance assessment: Wind farm SCADA data are analysed to investigate underperformance. The assessment focuses on wind turbine availability, power curve verification, analysis of forecasted and real energy output, warranty and damages calculations.

Modeliza was founded in A Coruña (Galicia, Northern Spain) in 2009 to support local developers. Experience has been gained in international projects development. Activities are currently held between France and Spain.



The manufacturing of models is developed by CAD/CAM systems. All of them are oriented to companies those cover a big group of fields in the industry. Some of these fields are:

- Machine-tools specialized in the iron and steel manufacturers.
- Hydraulics and Aeolian
- Specialized models for the naval industry
- Capital goods
- Aeolian Engineer
- Railway products
- Refractories
- Polyester.

Our specialized workers, classified as first class workers and guaranteed by his lengthy experience and the good selection of the materials used, guarantee the quality of our works. We have a lengthy experience manufacturing big dimension models because we are the main providers to naval industries, iron and steel manufacturers, machine-tools, equipment goods,... in our country. We warrant the best prices and delivery times for a high quality product



Company Presentation

MODELS PRINCIPADO,S.A. is a solid company situated at the Industrial Zone in Valnalon, in town council of Langreo, Princedom of Asturias(Spain). We are a solid company with big work capacity, effort and devotion. Our company is equipped with last technology machines used in the manufacturing of wooden products, polyester models, poliuyethane resins, metallics, epoxys, masters,models in scale.

We have 2 milling machines operators CNC 5000x2500x1300 and 1 milling machine operator CNC 25000x8000x4000.

We have a technical office and centres to mechanize. Our Quality Control Department, equipped with a modern machine for threedimensional control, guarantees a perfect design of the models. Our workshop have an area of 3000 m².





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Company Presentation

Montealto has successfully developed and consolidated three business areas since it was founded in 1995: Infrastructures, Energy and Environment. This track record has been possible thanks to a business philosophy based on efficiency, quickness, ability to adapt to changes in the industry, good management and a good dose of prudence.

Its main mission is to offer complete solutions in all its areas of activity, contributing to the development and wellbeing of the population. One of the group's business objectives is a commitment to offering top quality, a vision of technological innovation and attaining sustainable development.

Montealto has a 370-person staff with the highest professional qualifications, which provides a high level of efficiency in all tasks developed and the attainment of maximum customer satisfaction. Over 50% of the turnover came from international activity, which is a clear sign of commitment that company is doing to become internationalized. Specifically, is carrying out projects in Italy, France, Peru and United States.

Currently, Montealto has 1535 MW accumulated spread over 93 projects of wind and solar energy in Spain, Italy, France, Peru and EEUU.

Business lines

Energy

Montealto's commitment to renewable energies and sustainable development can be clearly seen in this business line. The main objective of Montealto Energy is to offer complete service for growing energy demands that modern-day society requires, through the development of different sources of renewable energy, with activities centered on the following sectors: photovoltaic, solar thermal, wind and cogeneration.

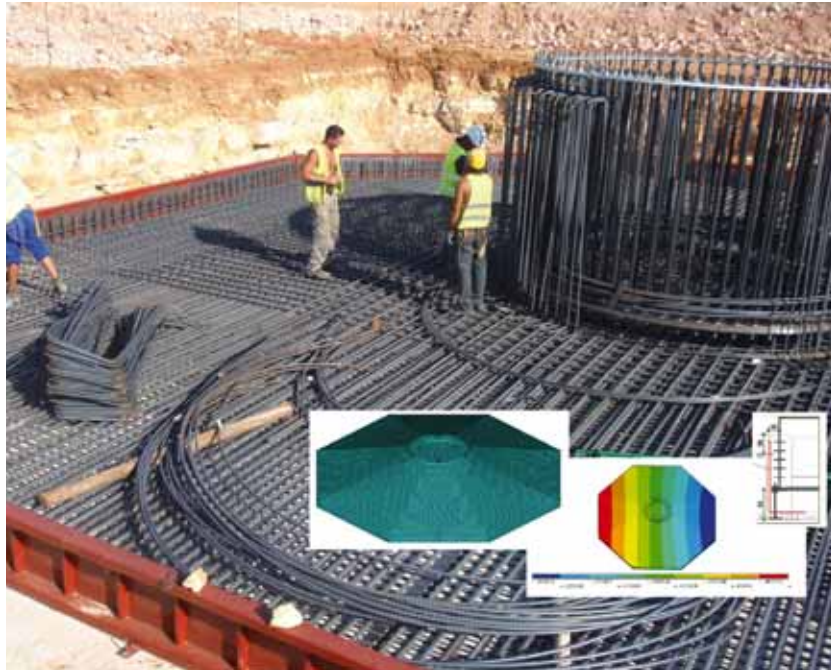
Currently, Montealto has 1535 MW accumulated spread over 93 projects of wind and solar energy in Spain, Italy, France, Peru and EEUU.



Wind

Montealto is making a strong commitment to wind energy in Spain and internationally. In Spain, is currently developing 7 wind projects located in Almería, Seville and Huelva. Projects with a combined capacity of 148MW, involving an investment of 222 million Euros. Also, is making a wind plant; Peña Miján located in Castilla y León in Aguilar de Campo (Palencia) of 6.6 MW, and with an investment of 10 millions euros. Also, Montealto, has exported its experience to other countries, such as Perú, where will carry out in collaboration with Energía Eólica S.A., two plants that involve the installation of 110 MW of power.

In all these projects, Montealto brings expertise in the provision of EPC services (Engineering, Procurement & Construction).



Company Presentation

MS Enertech: Engineering Services in Renewable Energies

Our aim is to deliver outstanding added value consulting services in the field Renewable Energy: we provide high quality engineering services at a competitive cost and with a very high degree of flexibility.

MS Enertech is a subsidiary of MS Techno, an engineering consultancy specialized in electromechanical systems, aeronautical and civil engineering. Our main services are:

- Wind Resource Assessment: Evaluation of the wind resource for wind farms or large areas, site suitability, micrositing, wind farm energy production estimates...
- Civil Engineering projects for wind farms and solar photovoltaic plants, including foundation design for specific conditions.
- Electromechanical Engineering projects related to wind turbines and its components.

Business lines

Engineering Services Highlights

Wind Resource Assessment

We assess more than 15GW wind power capacity each year in Europe, Asia, America. Both for wind turbine manufacturers and for wind farm developers. Typical study contents include:

- Data filtering and determination of valid reference periods
- Characterization of wind conditions, wind profile, turbulence intensity and wind distribution
- Site classification according to IEC standards
- Power output estimates for the wind farm
- On request, the wind farm data is validated and completed by means of a visit to the site.

Civil Engineering for Wind and PV farms

We carry out more than 30 projects per year all around the world, under different regulatory environments, terrain & seismic conditions both for manufacturers and developers in a variety of areas:

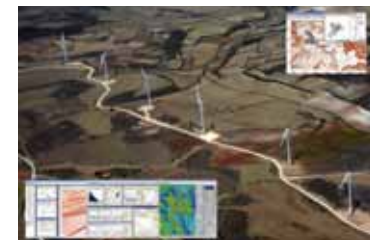
- Product development (i.e. foundations). We cover the complete development cycle: concept evaluation, simulation, design, prototyping and validation.
- Structural analysis and technical consulting (foundations, towers, etc.).
- Wind farm civil infrastructure design.
- Testing and validation of civil engineering solutions.
- Logistics and assembly methodologies and tooling.

Technical Due Diligence for Wind Power Projects

We support Due Diligence projects by combining and adapting the scope of the technical services detailed above. These projects can involve wind farm transactions or wind power development plans.

Electromechanical Engineering Projects

In cooperation with MS Techno, we can engage in engineering projects related to the Renewable Energy field. We develop sophisticated tooling for assembly and testing of wind turbine components. This includes high level test benches, such as back-to-back gearbox testing installation.



Muehlhan Windpower A/S



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Company Presentation

In Denmark the wind turbine industry is a significant player. Muehlhan coats approx. half of all Danish manufactured wind turbine towers. We also coat a large number of other parts and machine components for wind turbines. This makes Muehlhan one of the world's most experienced companies in this market.

This experience will be to your advantage, regardless where the surface protection of tower sections takes place – anywhere in the world.

Muehlhan offers a turn-key and mobile surface protection set-up, which can be mobilized all over the world within very short time.

Whenever you need a competent and experienced paint division under Muehlhan's management that complies with current environmental requirements and provides the best, well-documented results every time; Muehlhan is the service provider to contact.

We are an international specialist in industrial and marine surface protection, and our strengths lie in protecting against corrosion of steel surfaces on ships, offshore platforms and complex land-based steel structures.

We are represented in 22 countries with 35 operating locations with more than 2,500 employees worldwide.

Muehlhan has been certified according to ISO-9001, ISO-14001 and OHSAS-18001.

With an experienced and highly competent staff of experts, we offer manufacturers and suppliers in the wind energy sector complete solutions for surface protection of the steel structures.

We have a proven track record with many of the internationally well-known wind turbine manufacturers.

We cooperate with all the internationally known suppliers of coating materials for the industry.

We also install the internals within the wind turbine towers.



We work on the site of your manufacturer's facility. Alternatively, we work on our own Muehlhan site.

We have the mobility to setup coating facilities at any location throughout the world.

We offer within the wind turbine industry:

- Sandblasting
- Metalizing
- Coating
- Mounting of internals in wind turbines
- Mobile surface protection – including rope access for offshore and onshore wind turbines
- Training courses for quality controllers for the wind turbine industry





Company Presentation

Navya (Navigation and Airports) is a company that offers solutions in the fields of Airport Development and Air Space/Air Navigation.

Navya staff has earned a wide experience as Airport and Operation's Directors, Air Space Managers, ATM experts that could provide a deep internal view of Air Navigation, Air Space and Air Traffic Management. Within Navya staff we can find profiles as the following:

- Aeronautical Engineers with experience in Eurocontrol and ICAO groups defining criteria for RNAV-GNSS (GBAS; SBAS) procedures. Members of different ICAO panels and groups.
- Flight Procedures Designers-Air Space Planners
- ATM experts: Engineers and Air Traffic Controllers with experience in the field of ATM systems
- Air Traffic Controllers with a very long experience in ATC and positions within Aena, ICAO and IATA as responsible of ATM Safety, Head of IATA CAR/SAM region and ICAO RAC/SAR region, members of OCP-IFPP panel representing Spain, etc.
- High experienced pilots
- MBA, Economical background suitable for Business and Strategic Plans

Navya Main Business Areas are the following:

- Air navigation/air space
- Air traffic management
- Airports and heliports
- Airlines
- Aeronautical strategical and marketing assistant
- Training and events

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Business lines

Aeronautical impact and obstacle marking and lighting assessment for wind farms, what implies:

- Analysis of Obstacle Limitation Surfaces (OLS)
- Analysis of Pans Ops Surfaces
- Contingency procedures – engine inoperative flight paths
- Evaluation of obstacle marking and lighting
- Radar interference and shadowing
- Potential impact on airport navigation aids
- Future developments

Projects

More than hundred Safety Studies and Impact Assessments related to wind farms (more than 300 considering all kind of obstacles).

Writing of the last version (2010) of the Spanish legislation regarding wind generators marking and lighting, in close cooperation with AEE and AESA (Spanish Aeronautical Safety Agency)



Nippon Express de España, S.A.



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Company Presentation

Nippon Express Co Ltd is a Japanese Forwarding Company created in 1872 and with a huge presence all over the world and particularly in Spain through Nippon Express de España, S.A which was established in 1988.

Its main activity is focused on airfreight and seafreight and it has a big consolidated department of Heavy Haulage and Construction Division located at Tokyo with correspondence in Spain through Nippon Express de España, S.A's Heavy Haulage Department.

Its relation with Windturbine Industry is not only focused on transportation but also in logistics and engineering at wind farms with a vast experience and resources, not only in Japan but in the main cities of Asia, America and Europe.

Nippon Express does not only transport wind turbines to Japan it also constructs and builds up wind farms there.

Being the most important Japanese International Freight Forwarder allows Nippon Express to be able to provide a global service to the different wind energy actors, so needed in a country like Japan where dealing with separated providers being abroad might produce communication deadlock and where confidence and trust on a reliable forwarding company is so important. This added to a direct communication with Nippon Express Spain makes the daily job easier and the final outcome better.



Nippon Express does not only transport and build up, it also feeds the different wind farms with the necessary spare parts during the guarantee period through its airfreight department and its ocean department (FCL, LCL & Projects), Nippon Express can transport the smallest screw but also the biggest wind turbine.

Nippon Express has a long experience and the expertise on the wind turbine transportation and erection jobs at wind farms, it has a full department only specialized on wind energy projects.

Many wind energy projects being imported in Japan are handled and managed by Nippon Express Co Ltd.

Nippon Express is a top reliable and capable global provider from / to & inside Japan on a high specialized industry such as Wind Energy Industry.

Our vast experience makes us deserve the reliance of the main wind turbine makers in the world and the main wind energy promoters in Japan.





Company Presentation

With more than 12 year of experience, NORMAWIND has been a pioneer in helping wind energy developers and financial institutions succeed with their wind power investments.

Services Normawind

NORMAWIND provides independent and personalised consulting services for wind farm developers throughout all project phases. Our multi-disciplinary team specialises in wind farm development and is able to understand all the key factors (strategic, economic, technical and legal) that contribute to the success of a project.

Normawind's multinational network allows us to offer our services globally, with projects and experience developed in regions including Europe (Western and Eastern), the Americas, Sudafrica and South Asia.

NORMAWIND is the commercial agent for EMD, the developer of WindPRO, software for planning and designing wind farms. WindPRO is recognized as the most efficient and proven tool. Top wind turbine manufacturers, developers, engineering firms, electricity companies and public institutions are using WindPRO worldwide.

We provide sales and technical support for WindPRO and offer basic and advanced training courses for this software.

We provide sales for WindSim. It is a modern wind farm design tool (WFDT). WindSim fuses advanced technologies with unrivaled wind energy domain expertise—so you can design more profitable wind farms.

NORMAWIND offers a comprehensive consultancy service in close cooperation with lawyers and financial consultants. This scope allows:

- Optimal structure of the project finance
- To access to international capital markets
- To minimize delays caused by lawsuits
- To develop negotiation strategies to get land access rights.



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NORMAWIND, offers services to do training courses in Wind Energy.

Services if you are a development:

- Designing wind measurement campaigns.
- Mesoscale analysis.
- Preliminary site analysis.
- Project Manager.

NORMAWIND offers a cost effective service for obtaining specific wind data of a site, delivered in partnership with leading developers of weather forecasting modelling software. Thus, the potential site developer can take a long-term view of the wind resource.

Services if you are a **Manufacture:**

- Micrositing and energy assessment.
- Project Manager.
- Training for wind studies.

Services if your are a **environmental consulting:**

- Wind farm engineering and environmental impact assessment (Noise, flickers, endangered species, Zones of Visual Influence, etc.)
- Sales licences WindPRO.
- Training course WindPRO (Basic and Advanced)
- Training course of wind studies



Norvento



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Company Presentation

NORVENTO is a business group dedicated to the promotion, construction and operation of renewable energy plants. It has been in the energy sector since 1981.

NORVENTO is owned by the Fernández Castro family, founder of the Group. **Corporación Caixa Galicia** is its partner in the development of the energy projects, with a 20% stake.

Our team is made up by highly skilled professionals assigned to the different sectors in which NORVENTO is structured.

NORVENTO has developed its activities mainly in Galicia, Northwest of Spain. The geographic expansion started in 2006 and, nowadays, several projects are being analyzed and developed in Spain and in different areas of the world such as Brazil, Chile, USA and Poland, where NORVENTO controls a 68 MW portfolio.

Business lines

Currently, the company owns installations in operation in the fields of hydro power – 30 MW of total capacity – wind power – 100 MW in operation and near 400 MW in advanced processing stages – biomass energy – a biomass plant: **Bioallarluz**, and two more projects in development – and solar energy – a 1 MW plant in Italy and a 100 kW pilot installation in Galicia. Such power plants are designed with the highest technical standards and represent examples of sustainable performance.

NORVENTO has carried out a strategic commitment for research, technological development and innovation of its own by allocating significant resources to the development of several R&D projects in the following sectors: wind, ocean, biomass, geothermal and distributed wind energy generation.

Norvento Energía Distribuida is developing and manufacturing the **NED100**, a 100 kW mid-range wind turbine with technology of its own that will be presented in 2011. Once the validation tests have finished, the aim is to put wind turbines for distributed generation on the market by 2012.



Also, **Norvento Ingeniería** offers electric and civil engineering services as well as environmental and planning services; moreover, **Norvento Operación y Mantenimiento** is specialized in the integral maintenance of renewable energy installations.



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Company Presentation

The company **OPEXenergy**, is a specialized firm in wind generation projects, providing services during the building, commissioning and operation of the plants

At this moment, OPEXenergy has offices in Spain, Portugal, Italy and Brazil, this presence reflects the globalization spirit of Deenma Group of whom OPEXenergy belongs, turning Brazil into our country target for the last months.

Business lines

OPEXenergy has a high qualified team that allows us to offer our customers specific solutions with a high added value, placing OPEXenergy as one of the companies of reference in the technical assistance and external consultancy during the building and operation of windfarms.

Opex Energy: products and services

Building supervision and site Engineer: OPEXenergy offers their customers a technical and legal advice for the installation owners to guarantee the quality, the price and the timing of the installation during the plant construction.

Assessment/Optimization: in the wind power sector, we have developed a methodology, which allow us to evaluate the wind turbine performance and energy efficiency, as well as the maintenance management carried out by a third party, in order to increase the availability and efficiency of the plant.

Performance audits and end of warranties: OPEXenergy owns all the state of the art equipments necessary to carry out the fieldwork, such us borescopes, accelerometers, thermal imaging cameras, laser alignments, field telescopes for the blades inspection and fall prevention equipment.

Blade audits: OPEXenergy performs audits to verify the blade state of maintenance in the windfarms, offering our customers proposals for corrective actions with their valuation; furthermore OPEXenergy is able to implement these actions when the customer considers it appropriate.



Orisol Corporacion Energética, S.A.



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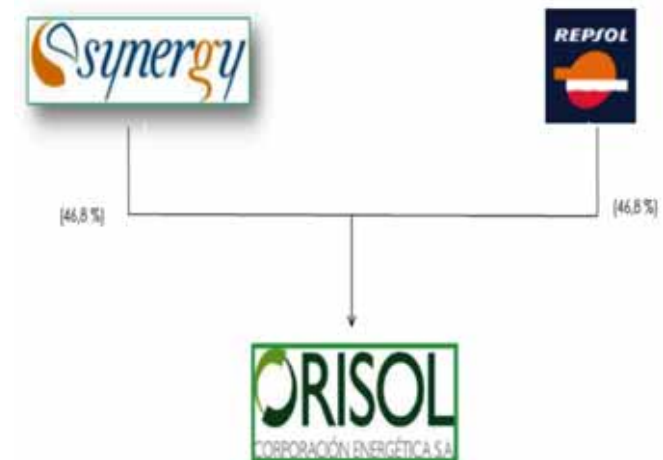
www.orisol.es



Company Presentation

Orisol was founded in 2006 as a subsidiary of the aerospace holding Synergy Industry & Technology. The holding is also active in the manufacturing aero parts and components and the provision of related engineering services through Aernnova Engineering (former Gamesa Aeronáutica), and WTG rotor blade design & manufacturing through Aeroblade. Synergy Group FY2009 consolidated audited revenue reached €381 Mio and its geographic presence includes Spain, USA, Mexico, Brazil, Romania and Italy. As of September 2010, Spanish Oil giant Repsol acquired a 46.8% stake in Orisol as part of its drive into Renewable Energy. Current shareholding structure ex-minorities is as follows:

Orisol's headquarters is located in Madrid, the company having two more business offices in Spain. Orisol branched out into other markets, sometimes leveraging off Aernnova international presence, sometimes rightly on its own. Orisol is already present in Italy, USA, Romania and Bulgaria. The company is focused on the development stage of the value chain, where most value is generated. Orisol can deliver consultancy & oversight services for other stages in the asset lifecycle, namely Construction, Operations & Maintenance and investment management.





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With more than 1.100.000 installed cubicles around the world and 14 GW of installed power capacity around renewable energy installations we are world leaders in secondary distribution switchgear units fully insulated in SF6 and up to 40.5 kV.

We have an experience of more than 8 years around wind farm installations which allows us to design and manufacture our products in order to perform under the most climate extreme conditions, guarantying personnel's safety and the networks protection.

As a result of these quality achievements Ormazabal is the world leader switchgear manufacturer and solution provider for utilities developing offshore wind farm installations.

We offer the best solutions in order to satisfy our client's needs, we offer technical advice and training, commissioning service and our unique High Power Laboratory offers after sales support in order to achieve best results and know-how.



Company Presentation

Global electrical Wind farm market presence

Since 1967, Ormazabal has been an engine for innovation in the electrical distribution sector, working closely with utilities around the world. Through cooperation with our customers, technological growth, investment in innovation, the commitment of our team of professionals and our knowledge management, we have been positioned at the forefront of the international medium-voltage electrical distribution market.

Medium-voltage switchgear and electrical distribution products

As one of the leading manufacturers of medium-voltage switchgear worldwide, Ormazabal provides customers with solutions for electrical distribution networks that are based on high added-value products and services. We offer a complete range of products for medium-voltage primary and secondary electrical distribution, including the following:

- Primary distribution switchgear
- Secondary distribution switchgear
- Transformer substations
- Distribution transformers
- Low-voltage boards
- Products for protection, control and automation of distribution networks
- Renewable energy applications

Global electrical Wind farm market presence

Ormazabal's global electrical Wind Farm market presence demonstrates the ability of our personnel and organisation to succeed in our ongoing internationalisation process.



Company Presentation

PABLO VEGA S.L. is a company specialising in industrial and naval electromechanics and the installation and maintenance of wind turbines. Since 2007, PABLO VEGA S.L. has belonged to ELINSA, a company which took over all the assets of the company incorporated in 1982.

PABLO VEGA S.L. provides specialised industrial services through three differential divisions:

Electromechanics Division: Specialising in the repair, winding and corrective, preventive and predictive maintenance of rotating electrical machines of any kind and of transformers.

Renewable Resources Division, including the wind and solar energy subdivisions:

- Installation. Electrical wiring and cable connecting. Start-up
- Assembly-Disassembling and Overall general corrective maintenance.
- Small correction maintenance. Design improvements (Retrofits).
- Overall maintenance and testing. Aligning, with own Optaling Smart equipment.
- Reinforcement personnel.
- Oil changes of the multiplier.
- Spare parts supply.

High-voltage Division: Operation and installations maintenance teams. Preventive and corrective maintenance, availability service, on duty personnel or failure notices to different substations of wind parks and other premises.



The implementation of these divisions enables provision of comprehensive services.

References:

Different maintenance areas for over 400 wind turbines from assorted manufacturers, diverse type of power and technologies, as well as 24-hour control, operation and maintenance of high voltage infrastructures (20/66KV) at different wind parks. A large number of great corrective operations have been carried out for different technologies and premises in Spain and other European countries: Portugal, France, Italy, etc.

Scope of application:

It has shifting equipment for preventive maintenance and small or great corrective operations, which intervene upon our clients' requests at national and international levels.

Premises:

Located in Algeciras (Cadiz), it comprises more than 2,000 m² of covered surface, equipped with gantry cranes and diverse necessary machinery for electromechanical repair: Test bed equipment, drying furnaces, painting and dripping booth, pressure cleaning, as well as any other necessary equipment or tool for the correct performance of the jobs.



Company Presentation

PACADAR S.A. was established in Spain in 1945, and it has become the most veteran company in the precast concrete construction sector worldwide, and the leader in the precast concrete sector for public works in Spain.

PACADAR is a member of GRUPO VILLAR MIR, one of the largest privately owned Spanish industrial groups.

PACADAR GROUP designs, manufacturer, transports and assembles all types of precast works for every kind of construction projects in **civil engineering**, including viaducts, bridge elements, pedestrian bridges, etc.

The company also designs, manufacturer, transports and assembles all types of precast **building elements** in the construction sector, including industrial facilities, shopping centres, warehouses, underground car parks, etc. And finally we are also involve in "special works", such as wind farms towers, refinery piping racks, cooling towers, electrical traction substations, etc.

PACADAR has developed a revolutionary manufacturing system suitable for all its products: our new Portable Prestressed Benches, which allow us to manufacture all types of precast elements worldwide. The benefits of this system are the minimum implementation time and cost, the ability to produce every type of prestressed ele-

ment in every country, the high production flexibility and capacity, it can be mounted with any length, with optimum capacity in each work, and we can totally adapt our production to our customer needs.

Regarding the wind towers, PACADAR has developed his own patent, to manufacture wind towers with precast concrete. With our Portable Prestressed Benches, we can install our factory as close as possible to the wind farm, in order to manufacture and install the towers.





Company Presentation

PROCINSA, established in 1989, is a specialist engineering firm in renewable energy systems.

Our activity focus on engineering services both to develop new production facilities in full cycle stages (Feasibility Studies, Design, Construction Management, Commissioning) and to manage operation of existing ones.

Regarding technologies we expertise in Wind Power and Solar Energy. As key factor of our company philosophy –innovation- we start dealing with biomass as well as wave energy facilities

PROCINSA, employing directly 20 high-profile engineering and staff profiles, is integrated in engineering holding GRUPO PROINTEC, with over 1500 employees. This provides us double dimension: small engineering firm (flexibility & innovation) and big engineering company (integrated service & international capabilities).

Business lines

Provided engineering services along project life:

1. Feasibility Studies

- Renewable Resources Consultancy
- Technical Feasibility – Profitability analysis
- Due Diligence – Projects
- Location Research



2. Design

- Basic & Detailed Engineering
- Environmental Impact Studies
- Hazard & Safety Analysis
- Grid Connection – Infrastructure
- Permitting Process
- Procurement Technical Assistance

3. Construction

- Project / Construction Management
- Technical Assistance to the Owner
- Quality Control Management
- Health & Safety Management
- Environmental Impact Assessment
- Permitting Process
- Procurement Management

4. Commissioning

- Commissioning supervision
- Equipments commissioning
- Commissioning procedures
- Grid Connection – Operation
- Handover Certificates
- Warranty Period Assistance

5. Production

- Maintenance management
- Operation management
- Performance Evaluation
- Technical Consultancy – Special studies
- Due Diligence – Facilities

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Business lines

REINOSO CONSULTORS' team includes specialists in a wide range of disciplines who can collaborate with your company for:

- Design and implementation of
- Effective EHS systems for companies with a large number of workplaces, involving a wide range of activities.
- Appropriate requirements of assurance systems for internationally established companies.
- Improvement processes to drastically reduce accidents.
- Internal audit systems for continuous improvement in EHS
- Benchmarking intra- o inter- companies.
- Conducting independent audits according proven methods.
- Analyzing effectiveness of EHS systems existing or to be implemented.
- Management support in system reviews.
- "RCA" and "FMEA" EHS oriented
- Tasks related to work at height using IRATA Level 3 certified experts , with extensive experience in the wind sector:
- Design of operations.
- Providing rescue teams for VIP visits to wind turbines or other installations with difficult access.
- Support and advice for
- Selection of specific personal protective equipment.
- Certification of personal protective equipment.
- Machinery certification.
- Design of heavy load cranes' operations.
- Interpretation and guidance in the implementation of international standards.

Company Presentation

REINOSO CONSULTORS is a young consulting firm, specializing in Environment, Health and Safety, with more than 12 years extensive experience in the energy sector. The firm uses professionals also specialized in industrial organization, ergonomics, site installation and maintenance of wind turbines.

REINOSO CONSULTORS believes in the value of company's personnel to promote changes from inside the organization by participating in the review of the company's strengths and weaknesses, in the development of standards and by accompanying deployment and appropriation of these standards within the company.

Beyond management systems, certification and auditing processes, proactive approach toward EHS is essential in the company.

Therefore, REINOSO CONSULTORS' approach is not only to assess possible management system failure, but to ensure its effectiveness and performance.

REINOSO CONSULTORS' experience shows that just implementing a system is insufficient, doomed to failure and leads to waste of company's value.

So REINOSO CONSULTORS considers that its advising services must not be limited strictly to the EHS system and, therefore, offers experience beyond steering and managing EHS system, to encompass convergence of the company's systems.

REINOSO CONSULTORS believes that its experience acquired through the work done with companies is the best way to bring value to its clients.



Renovalia Energy



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Company Presentation

Renovalia Energy is one of the largest Independent Power Producers (IPP) of Spain, with over 550 MW of installed and under construction power in the renewable energy market.

Renovalia, born 10 years ago, has pursued a strong and continuous investment strategy, which has

allowed the company to become a renowned world player in the Renewable IPP and R+D fields among 4 technologies (wind, thermo-solar, solar photovoltaic and mini hydraulic).

Nowadays, Renovalia stands as a market reference, showing one of the most balanced energy mixes and being present in 8 countries (Spain, USA, Canada, Mexico, Italy, Romania, Hungary and Turkey) thanks to its ambitious international expansion plan and diversified 2,400-MW portfolio.

As a major clean energy producer, Renovalia Energy avoided the emission to the atmosphere of 380,399 CO2 tonnes during 2009.



Business lines

Renewable Energy Market

Renovalia has also pursued vertical integration regarding engineering and manufacturing of key components, which allows the company to be extremely efficient and highly competitive in the renewable energy market.

Through its 100-professional engineering division, Renovalia offers technical services, consulting, construction, quality control as well as operation and maintenance. In search of excellence as an IPP, the company has defined the full engineering and construction project layouts, built all of the group's wind parks and solar plants and overseen all of its installations worldwide.

Renovalia's highly mobile team of experts, detailed O&M strategy, self-designed software (to streamline operations) and sophisticated Control Center (to monitor in real-time, 24 hours a day, 365 days a year) translate into the maximum efficiency for its installations: 10 wind parks, 4 photovoltaic plants, 1 thermo-solar plant and 1 mini-hydraulic facility.

Wind Sector

Renovalia owns and operates 10 wind parks to account for an operational wind power of over 240 MW. In addition, the company is currently constructing the second largest park in Mexico with over 227 MW of power as well as developing several projects including over 210 MW in Romania, 68 MW in Hungary and 120MW in Alberta, Canada.



Company Presentation

RENOVETEC is a Company dedicated to the training of technical nature. Its main objective is the training of technicians, supervisors and managers in the areas of ENERGY and OPERATIONS & MAINTENANCE. The company develops courses, training programs and publications designed to prepare professionals in areas that RENOVIETEC knows well. Our experts come from the industrial area, with at least 10 years of practical experience in the field.

RENOVETEC customers are mainly companies that work in the industrial or energy sector. RENOVIETEC has provided in company training for the likes of SIEMENS AG, IBERDROLA ENGINEERING AND CONSTRUCTION, ACCIONA, HC ENERGÍA, ENDESA, ELECNOR, ABENGOA SOLAR, ABENER, TEYMA, AB BIOENERGY, SOLEVAL (SIEMENS-SACYR), OPEX ENERGY, ATLANTIC COPPER, ALCOA and IBERESE.

Our Company has provided complete training programs for the most prestigious projects related to renewable energy, in companies such as ACCIONA, SIEMENS, ELECNOR, ENDESA, ABENGOA and SOLEVAL.

RENOVIETEC is currently regarded as one of the best reference companies for the operational training for staff involved in the design, construction, commissioning, operation and maintenance of renewable power plants and wind farms.

RENOVIETEC has its base in Madrid and develops its courses in English, Spanish, French and Portuguese. We have international experience in the following countries: Algeria, Argentina, Australia, Chile, Colombia, Morocco, France and Israel, amongst others.

Wind power courses:

- Wind Farms and Wind Turbines
- Wind Farms Efficient operation
- Wind Turbines Maintenance and Diagnosis
- High-Voltage and Medium Voltage Maintenance at the Wind Farm
- Wind Turbines Predictive Maintenance
- RCM in Wind Farms
- Risk Prevention in the Wind Power Sector Course

Courses for high and medium voltage and electrical systems:

- High-Voltage in Electrical Installations
- Electric Generator, Motors, Drives and Backup Systems
- High Voltage Maintenance
- Risk Prevention and Safety in High Voltage Installations

RENOVIETEC's main dedication is training.

We care about the quality of our programs, our speakers and the effectiveness of the training activities.

For RENOVIETEC training is not a contractual obligation but it is our main reason for existing and our primary economic activity.





Company Presentation

Energías Renovables is the leading clean energy publication in the Spanish language. It has a print version and three online magazines updated on a daily basis..

Energías Renovables magazine

11 issues per year mailed out to over 7,000 subscribers. We will publish issue 100 in May 2011..

www.energias-renovables.com (ER)

Launched in 2000, today the website appears as the first result in searches using Google and Yahoo, for example with queries such as “energías renovables” or “renovables”. Four different newsletters are sent out each week (wind, bioenergy, solar and general renewables)

www.renewableenergymagazine.com (REM)

In English, offering different content to ER prepared by journalists all over the world. REM also distributes four newsletters covering different technologies.

www.energias-renovables.com/america (amERica)

In Spanish, it is dedicated to the whole American continent. Offers its own content and also issues a weekly newsletter.

Our readers

With a circulation of 10,000 units, Energías Renovables is delivered to sector professionals (developers, manufacturers and distributors, technicians, installers and maintenance and service providers), those in charge of public energy and environment departments, research centres, lecturers and students, NGOs, journalists, and individuals interested in renewable energy news.

Haya Comunicación has agreements with the main industry associations in Spain, such as AEE, AEF, APPA, ASIF, ASIT, Avebiom, Protermosolar, and mails the magazine for free to all association member companies.

Online data is audited by OJD/Nielsen and is available to the public (monthly data):

- Between 50,000 and 60,000 unique visitors (different readers)
- 100.000 visits
- 350.000 pages viewed
- Over 60,000 subscribers to our Spanish newsletters
- Over 12,000 subscribers to our English newsletters
- More than 2,000 followers on Twitter in the first 6 months



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eolus
actualidad de la industria eólica



Company Presentation

SAPT Publicaciones Técnicas S.L. is a renowned Spanish Publishing Company, dedicated since 1983 to renewable energies. In 2002, it began publishing EOLUS as a supplement of its prestigious Solar Energy Magazine -ERA SOLAR-.

For many years, the Spanish wind power market, which occupies a prominent place in the world, has strangely been included as just one more section inside of the renewable energy magazines of general interest that can be found in our country. The information about the wind industry have been printing in big headlines, that usually said something like "World's Largest Wind Farm Opens in....", but it never got deeper, avoiding many aspects of an area where research, progress, technology, yields and profits keep raising on a regular basis (we just have to compare the current production figures with the figures of a decade ago).

However, since 2009, EOLUS become the only Spanish technical magazine with a professional character which started devoting its contents exclusively to wind energy as well as the wind market current issues. EOLUS magazine contains separated and distinctive sections featuring all the topics related to Wind Power, from onshore to offshore wind power, as well as small wind energy applications. It includes technical articles written by renowned contributors, well-known wind industry major players, researchers and scientists, related to several fields of research, development, manufacture, design and installation. The editorial schedule of EOLUS is packed with market development studies, repowering, O&M, wind turbines and wind parks case studies, transport & logistics, grids, energy storage, new wind projects, etc.

Adding the support of its webpage (www.eolus.es), to the above mentioned advantages, SAPT Publicaciones Técnicas S.L. is now ready to offer an excellent framework as well as an exclusive channel of communication for wind energy professionals and companies with the most dynamic and up-to-date information of the market.



RKB Bearing Industries



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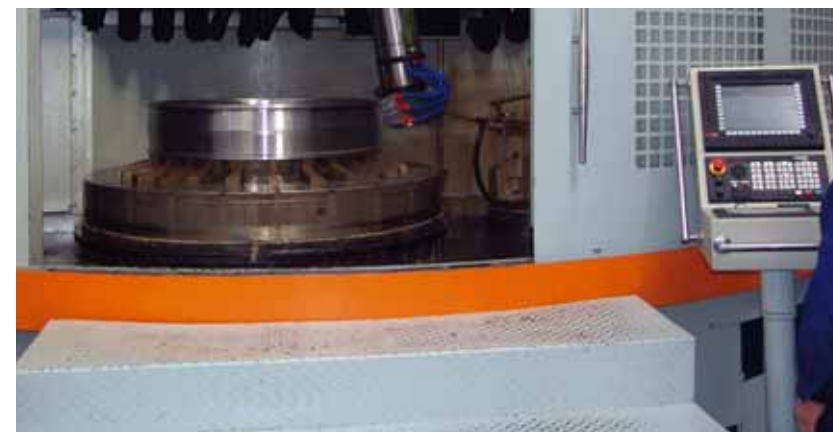
www.rkbbearings.com



Company Presentation

The RKB Bearing Industries Group is a Swiss manufacturing organization operating in the bearing industry for over 70 years, with 90.000 sqm and 135 million euros of tangible assets and a monthly production capacity exceeding 350 tons of steel. The experience gained over the years provides RKB with the know-how and expertise necessary for the development and production of technological valued-added bearings up to 1925 mm outer diameter, particularly for the heavy industry. Thanks to its pioneer business model, based on a vertically integrated system, RKB offers reliable cost-effective solutions, with extreme operational flexibility, leading-edge service, huge stock availability (more than 35 million euros of standard and special rolling bearings), short delivery time and the top quality typical of a consistent premium-class bearing source. With a worldwide distribution network and exports to more than 50 countries, RKB is globally recognized as “The Alternative Power” in the bearing industry.

The RKB Group has long-standing experience in designing and producing highly reliable rolling bearings for the wind industry professionals (from megawatt-class systems below). In fact, it's no accident that the RKB logistics warehouses around



the world can count on a comprehensive range of prompt ex stock rolling bearings dedicated to all the qualified OEM and MRO customers working in this field. This enables the RKB Group to serve its clients in the most efficient way, also in shortage and emergency situations. Moreover, an entire technical department at the RKB Executive Headquarters and Technological Center in Switzerland is committed to studying, developing and putting into production customized optimal solutions for any kind of wind applications, both onshore and offshore. The knowledge gained over the years along with its pioneering production technology make of RKB the ideal partner to satisfy the most demanding requirements in the wind industry



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Company Presentation

Robert Walters is one of the world's leading global, executive search selection and outsourcing company.

Established in 1985 Robert Walters is quoted on London's stock exchange.

With International offices over five continents (38 offices in 17 countries) ,our truly global network enables us to meet the demands of clients and candidates whose need extend beyond local markets. Our strong Iberia knowledge provide us with unique insights into the local industry and culture.

Robert Walters's brand is synonymous of innovation, visionary and leadership on a global recruitment market.

We are specialised in permanent contract and interim management for top and middle management.

Our clients vary from the most important multinational worldwide corporations to local companies.

Business lines

Robert Walters works in partnership with clients, offering unique fitting for each particular client need.

We work as confidence consultant, using our knowledge and expertise in this sector we guarantee that the best candidates to fulfil our clients prospects.

"Global presence with local knowledge"

Robert Walters as a real consultancy global, resolves the real contracting needs; whether you are a multinational company, local, or regional enterprise. We have the global coverage and local knowledge to satisfied your company needs.

"Consultants specialized, professionals in each sector"

Robert Walters hires consultants with strong professional expertise in practise specialised fields.

Our consultant have worked in the specialized area they are recruiting for and have developed the necessary skills to realize the best options, they are highly-trained to offer to our clients the best.

Our interim structure is oriented to building long-term advisory relationships and team work.

We render an ad-hoc service for our clients and personalize attention to our candidates.





Company Presentation

Röchling – world leader in engineering plastics

Your international supplier of technical products

As part of the German Röchling Group, a world leader in the processing of engineering plastics, the High Performance Plastics division with its international subsidiaries is a leading supplier of semi-finished products and finished parts of engineering plastics for the capital goods industry. With our unique wide and varied range of thermoplastic and composite materials we offer tailored solutions that meet almost any requirements.

In our own laboratories and in collaboration with suppliers, scientists and institutions we develop new products and manufacturing technologies.

Flexible, high-performance, precise

We dispose of modern, powerful and efficient CNC machining centers. Large-format CNC machines enable products with very large dimensions to be manufactured with close tolerances.

We take the initiative

We demand the highest standards of our quality management. We are certified to DIN EN ISO 9001:2008 and ensure our standard at continuous inspection and assessment of our activities in quality audits. We are also an active member of numerous bodies and committees and actively face the challenges of the future. In this way we ensure the continuous expansion of our know-how and outstanding reliability in the use of our products.

Business lines

Thermoplastics

We offer a unique range of semi-finished and machined thermoplastic products in a wide selection of shapes and formats – sheets up to the format 6,000 x 2,500 mm, blocks, rods and welding wire. Our range of supply is a composition of engineering and high performance plastics. In addition to numerous standard types, we offer



tailored modifications fitting to your specific application.

On the basis of these materials, our production program encompasses:

- Extruded and moulded semi-finished products
- Form-polymerized semi-finished products
- Films
- Extruded profiles
- Special cast components
- Cast moulded products
- CNC machining in accordance to the drawings of our customers

Composites

The choice of materials for applications within wind turbines is subject to the most stringent electrical, mechanical and thermal requirements. With our fiber glass reinforced plastic Durostone®, we can supply a quality range of high grade materials for widely varying applications and open up entirely new design possibilities. This ranges from highly complex support rings to high volume plates and fasteners to Permaglas compression moulded components.

We manufacture a comprehensive range of specially developed resin systems and fiber glass reinforcements.

Our extensive stocks of semi-finished products, together with computer controlled machining centers, guarantees high quality machined components with close tolerances.

Products

- Electrical insulation
- Sliding elements
- FRP Reinforcements





Company Presentation

Ronergy Services SL is a company specializing in wind power maintenance. The company was founded in 2010, but its members have a long career in different fields in the world of renewable energy and related activities with the materials of which wind turbines are built. The activities of the founding members of Ronergy Services range from the management of wind farms, shipbuilding with glass fiber and composites (The construction of the first national sailing boat ECO award-winning around the world), civil works, electro mechanical.

Staffed with highly qualified and all means necessary to carry out all types of work in relation to: Maintenance blade, cleaning blade shaft and nacelle, turbine inspection services with powerful cameras and inspection systems for remote control avoiding the use of cranes.

In 2008 Ronergy partners to improve production tests in a group of 11 wind turbines, before and after a maintenance of its blades; The results showed that after these cleaning and maintenance of wind turbine blades there was a production improvement of 2%. We must take into account that just cleaning (fouling) of the blades has been audited by independent companies with the result of a production improvement of 0.5% from what we can deduce an improvement of 1.5% because of restoring perfect aerodynamics of the blades with the maintenance work performed

Ronergy Services has worked in 2010 at about 30 wind farms in Spain and Portugal, among whose clients include Gamesa, GDF Suez, Electra Guardiola.





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Company Presentation

Spreading safety since 1990

Roxtec was founded in Sweden in 1990 with the invention of Multidiameter™, our special technology based on sealing modules with removable layers. It revolutionized the complicated process of cable routing and pipe installation – allowing designers and users to perform their tasks without knowing the size or number of cables or pipes in advance.

Global expansion

Four years later, we were the world-leading supplier of modular-based seals. Since then, we provide sealing solutions for different applications within sectors like equipment manufacturing, telecom, construction, power, marine, and oil & gas. You find Roxtec safety products at land, at sea and under ground.

World class supplier

We have developed a motivating and learning company culture, inspiring operational excellence. We are present worldwide to guarantee local product availability and long-term customer relations.

Finding new markets

The result is an impressive growth with sustained profitability. We are able to invest to ensure local presence and keep Roxtec the world's most available cable and pipe seals. The upswing has been achieved through our focus on services for existing customers – and on new markets. We continue to explore markets with a need for safe and flexible sealing solutions.

Business lines

Keep your wind turbines running

With the Roxtec cable sealing system, you have one standardized safety solution for long-term operational reliability for every application in the wind power industry. Our system covers your protection needs – and helps you ensure a good return on your investment.



All in one solution

Operators can standardize international projects and count on fast roll-out and global support. Designers can deliver wise, readily available safety solutions that protect against unexpected costs and warranty claims. And subcontractors can perform their tasks in a quick, smart, clean and easy way, ensuring quality throughout service and maintenance agreements.

Reliability is crucial

Every Roxtec component is developed to ensure maximum uptime. Our seals are designed for applications from nacelle to foundation and transmission substations – in onshore as well as offshore wind farms. The seals are tested and certified to protect your investment against water, fire, electro-magnetic disturbance, dust, vibrations, and rodents.

Speed and safety

To stay competitive, you must be able to act quickly. Thanks to the flexibility and the cable-friendly rubber modules of the Roxtec system, cables of different sizes, even with lugs, are securely routed, sealed and fixed. This ensures fast installation and a vibration protection that extends the lifetime of the cables.

Roxtec sealing products

The flexible Roxtec sealing system covers all your safety needs, and its unique adaptability has made us the world leader within modular-based cable and pipe seals.

In this section, you can learn more about our seals. Choose the products you need according to requirements in the product and certificate database. We deliver complete kits with one part number, to simplify standardization and the entire ordering process.





Company Presentation

Salvacon, Salvamento e Contraincendios S.L. is a training and certifying company that focus its activity on the training on safety and risks prevention, both for state and private security.

Our learning areas include sectors as Transport, Professional Navigation and Boating, Private Security, Competitive Examinations (Firemen) and Renewable Energy Training. Our eminently practical training are held in our head office or wherever the training is needed, moving the teaching staff and mobile units designed for this purpose to the place where the training activity will be held.

Business lines

Salvacon conceives training as one of the basis for the development of any activity. We provide the best renewable energies training, adapting practical ideas to their own environment and applying them immediately. Salvacon is committed to investigation and development. Our simulator,

Eolo, with world patent, offers a politics of training adjusted to the needs generated in the wind power sector.

Ours training activities, focused on this sector, include a preventive culture in security in height and vertical jobs, evacuation from wind generators, descent from wind generators and rescue techniques and training actions applied to the prevention in the wind sector (fire fighting, first aid, electrical risk, etc.).



Products

Simulador Eolo.

It is the only mobile unit in Europe with world patent to provide training; a simulator of wind generator equipped with elevators where the conditions of height and specific risks of a real wind generator are recreated, simulating real conditions of situations that may take place inside a wind generator.

The unit reaches a height of 11 meters and consists of evacuation gondola, a hub gondola and wind turbine stretch. It can meet the training requirements approved for courses by major manufacturers and companies of that sector.



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Salvacon
LA FORMACIÓN DONDE SE NECESITE



Sálvora Vento S.L.



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Company Presentation

Founded in 2004, SálvoraVento is a wind energy services company, specialized in maintenance, consulting and assessment of wind turbine blades.

It is an independent company with strong technological knowledge, based on years of experience in this field of its founders and workers.

Two operation centers in Spain: La Coruña and Albacete.

With two factories where any size and kind of wind turbine blade can be repaired.

A team of professionals work in SálvoraVento, with a flexible structure to adapt ourselves to different projects Spain, Portugal and France are the countries where SálvoraVento operates daily, but the company has worked also in another eleven countries (U.S.A, Brasil, México, Japan, Australia... etc).

Our goals:

- To guarantee the correct maintenance of blades
- Optimize the rotor during its working life, to enhance medium term and long term profitability
- Allow our clientes to delegate all their concerns related to blades
- To work with clients in technological developments



Business lines

Maintenance:

- Full maintenance (corrective and preventive)
- Retrofit work (on site or in factory)
- Individual corrective work
- Assessments
- Inspection programs :
 - In the wind turbine, inside or outside. With crane, platform or rappel
 - From the ground, with monocular
 - Repair work in factory (we include transport to our premises)
 - Thermograph and UT inspections
 - Balance of rotors and measurement of vibrations, in cooperation with a world leading German partner

Consulting (diagnosis of damages, design of repair procedures, study of new materials, etc)

SálvoraVento also **build different parts** (spinner rings, etc)

Specialized training in our field

Information (What differentiates our service)

- High technical capability
- High quality
- Experience in all the blades technologies : Epoxy and poliester
- Use of original materials and research on new materials
- Documentation of the service: report on each service sent to the client right at the end of it
- Reaction time: we work 24/7, we measure our reaction time
- We put first EHS



Company Presentation

SAN MARTIN, S.A., founded in 1983, is pioneer in the construction of wind farms in Spain, with more than twelve years experience it has undertaken to this date the civil engineering and the building of forty seven projects for the main national and international wind energy companies.

Our solid structure of technical and human resources makes possible the sustainable development of our activity and also the integrated execution of all the construction phases, guaranteeing the fulfilment of deadlines and the highest quality levels.

SAN MARTIN, S.A. was certified in the year 2003 with the ISO norms 9001, ISO 14001 and OHSAS 18001, which grants the company a wide range of experience and maturity in the efficient management of the projects undertaken, always seeking quality, safety and respect for the environment.

Business lines

SAN MARTIN, S.A. undertakes the civil engineering and the complete building of wind farms:

a) Basic Infrastructure: The company has an extensive machinery park and all the necessary logistics in order to undertake rapidly and with guarantees the opening and conditioning works of accesses and internal roads, ditches for medium voltage lines and telecommunications, etc.

- b) Foundations and Platforms: The company has executed foundations and platforms for the installation of a wide range of wind turbines: Gamesa (G-47; G-52; G-58; G-80; G-87) Enercon (E-70; E-74), Vestas (V-90), Navantia (Bonus 1300), Vensys (77; 78).
- c) Substations: Execution of projects from 45/20 Kv up to 132/400 kv. The company is certified for this activity by Red Eléctrica de Spain (company with the exclusive rights of transporting electricity and operating electric systems in Spain).
- d) Control Buildings: The company has a wide range of experience in residential and industrial building which allows it to guarantee excellent levels of finishing.
- e) Environmental regeneration: Slope stabilization, floor regeneration and protection against erosion, reforestation...

Projects

SAN MARTIN, S.A. has executed forty seven wind projects for the following companies: Iberdrola, Generaciones Especiales (Grupo EDP), Red Eléctrica de España, Gamesa Energía, Enel – union Fenosa Energías Renovables, Norvento, Adelanta Ingeniería, Cepsa, Desa, Fersa, Acciona, Eólicas del Sil.



Santos Maquinaria Eléctrica, S.L.



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Company Presentation

Since 1967, and for over four decades, our main activity has been focused on repair and maintenance services, and sale of rotating electrical machinery. During this time our experienced group of technicians, quality policy, the use of best materials and state of art technology has allowed us to be one of the most representative companies in the industry of the repair of electrical machines.

We count with ISO 9001:2008 and ISO 14001:2004 certification and we are official authorized repair partner of the most prestigious brands.



Business lines

Our activities Include:

- Repair, maintenance and sale of AC/DC, high and low voltage rotating electrical machines.
- Maintenance, Rewinding and repair of electrical motors and generators.
- Repair and maintenance of wind turbine gearboxes and gearboxes
- Machining and rebuilding of mechanical parts
- Manufacture of formed coils and Roebel bars up to 15 KV
- Insulation tests EDA III, vibration analysis, videoscope inspection, Tan Delta measurement, laser alignment, Surge & HIPOT test and thermography
- Dynamic Balancing
- Onsite services
- Load motor testing up to 1200 kW

We also manufacture and provide didactic equipment for engineering and technical education.



Company Presentation

SARPEL Engineering Corporation is a company specialised in the accomplishment of Electrical Infrastructures. It was founded in 1995 and, from this moment and up to the present, it has been growing and gaining presence in the whole national territory.

Its headquarters are in Agrela Industrial Park in La Coruña and it has a constructed surface of 2.300 m2. The offices, the store and the assembly workshop for electrical panels are located there.

It is made up of a human team with wide experience inside the sector. Its Quality Management System is well-established and certified under ISO 9001:2008. So it is its Environmental Management System under ISO 14001:2004 and its Occupational Health and Safety Management System Standard under OHSAS 18001:2007.

SARPEL Engineering Corporation is specialised in the development of engineering, installation and maintenance of electrical infrastructures of high and low voltage, facilities of control, automation and assembly of electrical panels of power and control, in the industrial sector and in the area of the renewable energies.

The implication with the client based on a permanent collaboration, the high levels of productivity, the assurance in the delivery times, and its team of professionals with a high qualification are highly valued by the main clients of the sector.

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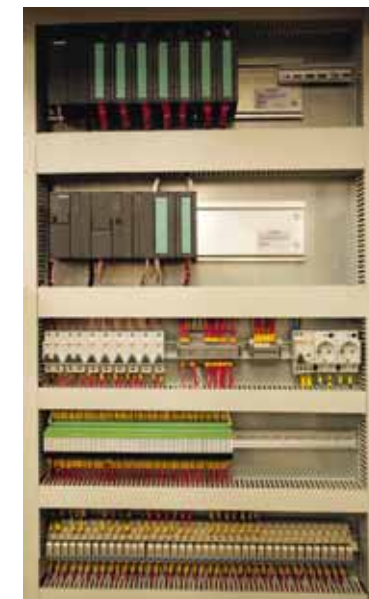
www.sarpel.com



Business lines

The activities that SARPEL Engineering Corporation develops in the wind sector are the following ones:

- Turnkey projects of the electrical infrastructures and of the associated civil work, by understanding the engineering and direction of work, studies of environmental impact, civil work, interconnection in high voltage, supply and installation of the electrical equipment and of control in substations, networks of medium voltage and transformer stations.
- Assembly and starting-up of the electrical infrastructures and of communications.
- Preventive and corrective maintenance of the electrical facilities of the wind farm, substations, high and medium voltage networks and of the transformer stations. Thermographies and oil analysis.
- Design and assembly of electrical panels and of control under UNE- EN 60439-1:2001.



Segura Hermanos, S.A.



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Company Presentation

SEGURA HERMANOS S.A., is a family company founded more than 50 year ago, dedicated to the mechanization (Turning) of high precision in the decolletage field.

Our products are manufactured for a lot of different markets: Machinery, Electro-Mechanical, Electricity, Illumination, Tools, Energy (Eolic), Medicine, Armament, etc. etc.

Our machinery park count with is the following:

- Automatic Turning lathes (cams)
- Multispindles machines.
- CNC Turning lathes (fix and mobile headstock) up to 65mm.
- Centerles Grinding

We work all type of materials, brass, aluminium, special steels, stainless steel, plastic.



Business lines

We work all type of pieces for eolic machines up to 65mm of diameter.

- Axes
- Bushes
- Support disks
- Pieces for wind sensor brackets
- Shafts
- Tubes for greasing
- Special washers
- Magnets (holder, bracket)
- Guides
- Cabling Bushes
- Clevins



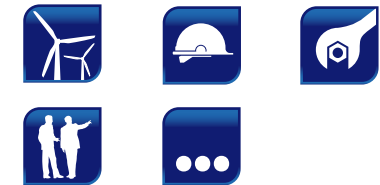
Business lines

The three main lines of activities carried out by the company are:

- **Engineering:** Development of wind energy studies; installation and management of meteorological towers and its data, micrositeing, evaluation of the right place to locate the wind turbines, etc.
- **Maintenance:** Blade inspection; preventive and corrective external maintenance turbines, external care required by a wind turbine; nacelle fiber repair, painting and cleaning towers, etc.
- **Environmental:** Environmental studies needed both before and after the construction of the wind farms as wildlife and vegetation studies, acoustic impacts, land maintenance and restoration.

Projects

Alen has taken part into hundred of renewable projects that includes wind energy, solar energy... Alen clients' portfolio included the most prestigious companies within the renewable energies world.



Company Presentation

Servicios de Ingeniería y Montaje Alen is a company dedicated to provide engineering and assembly services to public and private clients, in the areas of energy, industry, environment and maintenance.

The company was created in 1999 by a group of professionals with broad knowledge of technical and legal aspects related to renewable energy. Alen offices are located in Santiago de Compostela and from there, Alen provides services anywhere in Europe to undertake the work entrusted to us. Since 2006, we have also offices in the U.S.A. and facilities in Pennsylvania and Texas, through our subsidiary Neo Energy Solutions, Inc.

Alen is responsible for all the necessary steps, from the early beginning, of wind farm development; Alen carries out a services for seek and selection of the best location to erect a wind farm.



Company Presentation

SGS is the world's leading inspection, verification, testing and certification company. Recognized as the global benchmark for quality and integrity, we employ 57,000 people and operate a network of more than 1,000 offices and laboratories around the world.

Business lines

To protect wind energy project investments and assure the quality of wind farms, SGS works as an independent global project surveyor carrying out inspection, testing, supervision, monitoring, management, verification and certification services for both onshore and offshore wind farm projects.

Products

SGS offers the following Wind Energy Services during the respective phases of a wind farm project life cycle. The activity

Conceptual Phase

Third-party risk management advisory services and support is most beneficial, to ensure that the decision, to go ahead with a project, is made with all the facts and from an informed stand point.

- Technical Due Diligence
- Tender Support
- Project Management
- Regulatory Compliance

Site Specific Design of Wind Turbine and Foundation

The verification of the detailed design includes the assessment of the combined load cases for the complete wind turbine, its support structure and electrical components as well as for the transformer platform, the cables and the J-tubes.

Design Verification

- CE-Marking
- Technical Consultancy
- HSE Management
- Risk Management

Manufacturing

The overall aim is to ensure consistently high quality during manufacture, in order

to reduce potential costs from being incurred later in the project.

- Manufacturing Inspection
- Wind Turbine Blade Testing
- Non-Destructive Testing (NDT)
- Expediting
- QA/QC Management and Inspection
- Project Based QHSE Management

Transportation and Installation

The objective of this phase is to ensure that quality and safety of the project is maintained, from components leaving their manufacturing facilities through to their correct and on-time installation on site.

- Construction Supervision
- Loading and Unloading Supervision
- QA/QC Management and Inspection
- HSE Management

Commissioning

It generally involves standard and functional testing of the electrical infrastructure and the wind turbine. SGS confirms a successful completion of the wind farm project and a safe start-up.

- Functional and Safety Test
- Commissioning Survey
- Final Acceptance Inspection

In-Service

Knowing that SGS will be on site to conduct periodic in-service inspections, such as condition monitoring, oil analysis, and a variety of technical inspections will ensure that the condition of the wind farm is maintained over time and that the project certificate remains valid.

- Failure Analysis
- End of Warranty Inspection
- In-Service Inspection
- Verification of Performance
- Blade Inspection and Non-Destructive Testing (NDT)



Company Presentation

SIBRE is a German Company established in 1958 which is continually creating and searching for advanced technology in brake systems. Thanks to its philosophy based on qualified engineers & technicians, high-quality suppliers for high-quality materials, latest CNC-technologies and CNC-machines, continuous quality control throughout the production, unique testing and measuring laboratory, it is able to keep its presence all around the world with products installed in more than 54 countries

In order to keep the best service offered up to now a well communicated net of branches has been slowly established around the world in every single continent.

On the last few years SIBRE has concentrated part of its activities on advance brake technology for Wind Turbines using latest Technologies to ensure high and cons-

tant level of component accuracy and high efficiency and productivity; also latest measure instruments, tailor made, testing rigs and database statistic for quality control throughout the entire production process are applied.

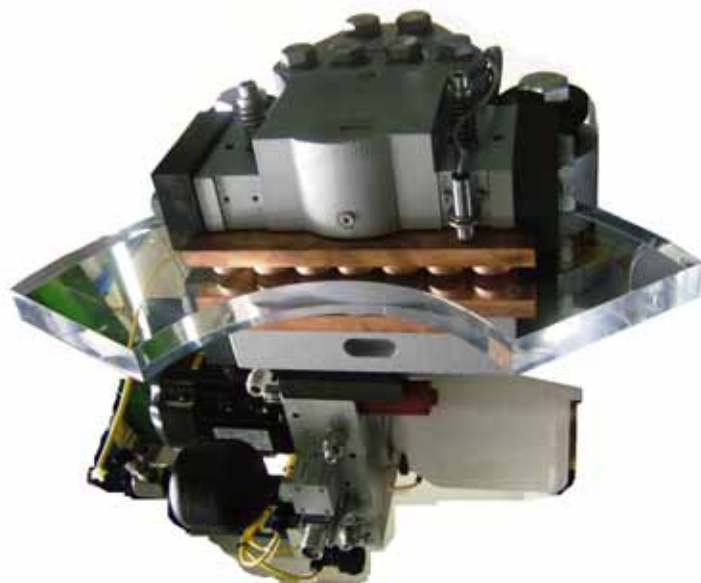
SIBRE is a reference company for Wind Turbine brakes due to its 50 years of experience in design, manufacture and marketing of industrial brake systems, more than 30 years of experience in international business, more than 10 years of experience in co-operation with well-known

WPG-Manufacturers, latest CNC-machines and continuous manufacturing control in-house, increasing manufacturing and stocking capacities to ensure short and reliable deliveries and skilled local partners available.

The range of products for Wind Turbine can be summarized on Active Yaw Brakes, Active Rotor Brakes, Fail Safe Rotor Brakes and Rotor Locks but we will be pleased to explain and extend the information of our products at any time upon request.

References about some of our projects regarding Wind Turbines have been listed below.

China:	Baoding Tianwei, Beijing Shengguotongyuan, Daqing Deta, Dongfang, Jiangxi Maide, Mingyang, etc
Germany:	Brand, Enercon, Frisia, Nordwind, Kennergys
Netherlands:	Lagerwey



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Company Presentation

Siemens is one of the leading worldwide turbine suppliers. With highly efficient, robust and reliable wind turbines, Siemens has a demonstrated history in delivering proven solutions to onshore, coastal and offshore sites. Siemens Wind Power's service team is dedicated to keeping the turbines running optimally throughout their entire lifecycle. Siemens also offers integrated solutions and services that meet the demands of the entire wind energy conversion chain.

The company is based in Brande, Denmark with commercial offices in all major wind turbine markets in America, Europe and Asia. The production capacity is based in US and Europe, with China and India coming in the very near future.

Innovations is a primary driver in this business, in this sense our new gearless design and our floating turbines, which can operate in high winds on the open sea, are taking wind power technology to new levels.

Business lines

We manufacture complete Multi MW wind turbines and provide a full range of turbine-related services. We are very well established in the onshore segment and leader supplier in the offshore market, where we have specific and dedicated products for this segment.



Products

Our product portfolio includes solutions for all kind of wind sites. The turbine types are

SWT 2.3 MW Series: with 82, 93 and 101 rotor diameter for high to low wind sites

SWT 3.0 101: the new direct drive technology for high winds

SWT 3.6 MW Series: for high wind sites and offshore applications

The product scope includes the turbine plus transportation, installation and commissioning, and the Service of the turbines.

Projects

Siemens has an extensive experience with more than 30 years in the business, we have more than 9,600 WTG and more than 13,000 MW installed worldwide in on and offshore wind farms. Our references includes all type of turbines and countries





than ever. Staying at the technological forefront has become a key success factor.

At SKF, we are committed to driving the design and development of bearings, seals, condition monitoring systems, and lubrication systems that enable more cost-effective wind energy generation. Working together with original equipment manufacturers and wind farm operators, SKF engineers provide dedicated solutions that can optimize the reliability and performance of new and existing wind turbine designs.

SKF's dedicated wind turbine solution can help both turbine manufacturers and wind farm owners to:

- decrease warranty claims
- reduce time to market
- customize solutions
- manufacture globally
- increase energy production
- increase turbine performance and reliability
- reduce operating and maintenance costs
- reduce lubricant consumption
- minimize environmental impact
- reduce energy losses



Company Presentation

SKF Group is the leading global supplier of products, solutions and services within rolling bearings, seals, mechatronics, services and lubrication systems. Services include technical support, maintenance services, condition monitoring and training.

The SKF Group

SKF was founded in 1907 and grew at a rapid rate to become a global company. As early as 1920, the company was well established in Europe, North and Latin America, Asia and Africa. Today, SKF is represented in more than 130 countries. The company has more than 100 manufacturing sites and also sales companies supported by about 15,000 distributor locations. SKF also has a widely used e-business marketplace and an efficient global distribution system.

Three divisions, 40 segments

SKF does business mainly through three divisions: Industrial Division and Service Division, servicing industrial original equipment manufacturers (OEMs) and aftermarket customers respectively, and Automotive Division, servicing automotive OEMs and aftermarket customers. SKF operates in around 40 customer segments, whereof examples include cars and light trucks, wind energy, railway, machine tool, medical, food and beverage and paper industries.

Business lines

Remember when efficient wind energy was just a vision?

Today, it's an established business. Competition is tough and the demands greater

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Company Presentation

Sociedad Eólica de Andalucía, S.A. -SEASA- was incorporated in 1993. It is the result of the merger of two companies: Planta Eólica del Sur, S.A. -PESUR- and Energía Eólica del Estrecho, S.A. -EEE-

The Company's main line of business is the exploitation of the two wind farms it has in the municipal district of Tarifa (Cadiz). This is one of the areas with the greatest wind potential in the world.

The success attained by SEASA in running its wind farms during 18 years of commercial exploitation has enabled it to conclude an ambitious repowering plan for them in 2010. They will go from 30 to 74 MW of installed power, and this has been the first repowering carried out on the Iberian Peninsula.

The most distinguished repowering advantages have been:

- 1 Obtaining better energy exploitation from the area.
- 2 Decreasing the impact on the land, both visually and on the birdlife, by reducing the number of wind turbines from 250 to 37.



The repowering work has been done without the need to halt the wind farms' production. This has required thorough planning and coordination of the work by all companies implicated in repowering works and by SEASA itself.

The technological and environmental advantages have been well-received by the Spanish administration.





Company Presentation

SORALUCE manufactures technologically advanced and high performance milling-boring machines. For its business volume, competitive position and international strategy, SORALUCE is a worldwide reference in the design and manufacturing of milling boring machines.

The company, belonging to DANOBATGUP, the largest Spanish machine tool manufacturer and integrated in MONDRAGON Corporation, one of the most important Spanish holdings, bases its commercial activity on sectors like energy, railways, industrial vehicles and other large capital goods components.

Business lines

SORALUCE offers to the market a wealth of accumulated knowledge in milling-boring of multi-megawatt turbine components, offering complete manufacturing processes or specific machining operations. SORALUCE provides full machining and verification process of hubs, nacelles, blades, gearbox housings, generator components, bearings and rings and towers, including simulation, milling, boring, drilling tapping and measuring operations.

Products

SORALUCE provides floor type Milling / Boring centres with the following characteristics:

- Top quality machining heads, which are robust, flexible and reliable.
- Development of special heads to suit special manufacturing requirements.
- Modular quill spindle, allowing automatic changing of quill spindle.
- Automatic head changing system.
- Wide range of accessories to ensure machine is exactly matched to the customer's requirements.
- Turn-key projects including clamping fixtures, cutting tools, CAD-CAM processing, simulation, training, production launch support, etc.

Projects

- GAMESA
- BECKMANN VOLMER
- SE FORGE
- LAKBER
- WUXI WANWEI
- ENERCON





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Company Presentation

The Sud Energies Renovables group is the result of an initiative of professionals with proven experience in the industrial, energy and environmental sector, which provides an integral service in the field of engineering, construction and exploitation of renewable energies.

The group of companies is currently made up of the engineering company and head offices of the group, Sud Energies Renovables, S.L., the installations, control and maintenance company InstalSud 2007, S.L. and the promoter of photovoltaic solar parks OnaSud Energia, S.L.

SUD Energies Renovables, SL works in the field of eolic energy undertaking the following tasks:

- Assembly of anemometric towers.
- Planning of wind measurement campaigns.



- Treatment and follow-up of wind data.
- Undertaking of Eolic Potential Studies (modelling of resource over digital topography, using specialised software)
- Landscape Integration Studies (photomontage of land with the future eolic park).
- Consultancy and Engineering of eolic parks.
- Installation and starting up of small aero-generators.



Company Presentation

Sumelec Navarra was set up in Pamplona (Spain) in 1975

We start working in the Wind Energy Sector in 1994 providing electrical parts to Gamesa Eolica and supplying different components to companies involved in the renewable energy business.

From the beginning we have been working together with our customers and suppliers seeking technical solutions and competitive challenges for the sector. Our technical team and our logistics capabilities have helped us to improve in this business.

Business lines

In association with other 3 suppliers, with the aim of giving a global service to the customers.

We supply:

- Global Technical Solutions
- Technical machinery, equipment and accessories.
- Definition and management of projects.
- Advising, beginning and maintenance.

We do:

- Definition of technical solutions.
- Search of adapted equipment.
- Implementation of constructive solutions.

Among our solutions:

- Acting Fuses
- Indoor LED lighting
- Arc Detectors
- Connection Boxes
- Safety Equipment
- Obstruction lights
- Miscellaneous groups
- Cable trays

- Thermostats
- Fuse cabinets
- Low and medium voltage connections
- Over-voltage protection
- Anemometers
- Presence Detectors
- Ice detectors
- Auxiliary material for electric cabinets
- Product Repairs

How we do it:

- Personal Coordination of the Projects.
- Working with quality Products & Partners
- Vertical Integration of Business.

How we can contribute to help our costumers:

- Qualified & Expert Engineering team.
- Specialized Technical Assistants.
- Flexible Management of needs of resources.
- Adaptable Facilities on demand.
- Coordination in the Externalisation of Production.
- Flexibility and Agility in the provisions.
- Guarantee and Security in our integration.
- Certified Quality: ISO 9001, UL

Our main Clients:

- Gamesa Eólica
- Acciona Windpower
- Vestas
- Ingeteam
- MTorres
- Cener
- Alstom-Ecotecnia

Our Strategy:

Keep on Dealing with the demands of the customers and maintaining their trust in us.





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Company Presentation

SDR Energy develops, designs, builds and operates renewable energy power plants.

Assured of the enormous potential of renewable energy the world over, and in Spain in particular, we are firmly committed to these sources of power and to our responsibility to conserve the environment.

We seek continuing improvement in our various lines of business as a guarantee of success while intensifying our activity in new growth areas as part of our diversification strategy, engaging in innovative projects where our experience ensures high added value.

This entrepreneurial spirit, and this commitment to the sustainable development of renewable energies, covers all the stages of the process, from preliminaries to operation, and is the result of over 12 years of experience in building and running co generation, biomass, wind farm and solar photovoltaic facilities. Our work begins with site location and the engineering that underlies facility design and dimensioning. We prepare dossiers, obtain licences and build and commission power plants. Since we operate these facilities and sell the power generated ourselves, we strive to optimize costs and plant efficiency, continuously improving our designs through R&D investment.

We are keenly aware of the vital role played by human resources in project management, supplier relations and customer-oriented product and service development. These tasks call for dedication, teamwork and ongoing effort to deliver the quality that guarantees optimum operation and maximum power output throughout facility service life.

Business lines

Wind farms

Wind farms convert wind energy into electric power, capturing the kinetic energy



present in the wind with the blades of the turbines to generate clean, renewable and autochthonous energy.

The first step in SDR Energy' wind industry projects is to identify potential farm sites from wind speed data recorded on the measuring instruments installed by the company. This is followed by wind farm design and grid connection permit and licensing preliminaries. Once the licences are granted, construction is begun. While the civil works for roadways and wind generator foundations are subcontracted, SDR Energy itself assembles the generators and installs the facilities to carry the power to the grid.



Company Presentation

Taiga Mistral Gestión SA, SGEGR is a Spanish Private Equity Management Company investing in promotion, development and construction of renewable energy plants in Europe. It is registered under the Spanish Securities Regulator (CNMV).

Taiga Mistral, through the Spanish Private Equity Company Taiga Inversiones Eólicas SA, SCR, has an investment potential of over 300 millions €, with a solid and diversified investor base, including: top Spanish financial institutions such as Banco Santander, Caja Navarra and Caja Ávila and reputed high net worth individuals.

The team is formed by 18 professionals, with:

- Accumulated experience of more than 50 years in the wind energy sector in Europe, including management and advisory of over 1.000 MW.
- Vast Private Equity investment experience including partnerships like CVC Capital Partners, Nmas1 Private Equity and Dinamia Capital Privado.

Poland

- Taiga Inversiones Eólicas SA, SCR, is a pioneer Spanish Energy Private Equity. This vehicle is registered under the Spanish Securities Regulator (CNMV)
- The investment strategy is oriented to the acquisition of majority stakes in wind companies, mainly in advanced development phase, hence, minimizing construction risk.

- Management team for Taiga Mistral accumulates over 25 years of wind energy experience including development and/or advisory role for over 500 MW in Poland.
- Currently Taiga Mistral operates a portfolio of 133 MW in 4 different Special Purpose Companies (SPV) in Poland. In 2010 has begun the construction of the first wind farm (41,4 MW) and has issued the building permit for another wind farm which will begin the construction in 2011.

Spain

In Spain, Taiga Mistral has two projects under management and a new opportunity to invest with one of the most important financial entities of Spain:

Taiga Tres

- Investment of 25 Million €, built in March 2010, with Spanish Investors from Banco Urquijo.
- It has acquired 2 Wind Farms in operation, from Gamesa, in Spain.

Taiga Cuatro

- Investment vehicle, in the process of fundraising, of aprox. 100 Million € of equity to invest in operating wind farms in Spain.
- Investment potential over 400 Million €.
- Agreement signed with LA CAIXA in 2010.





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Company Presentation

TAIM WESER is a world leading company within the fields of materials handling, lifting equipment, waste treatment plants and renewable energy, committed to innovation and technology. Head office is located in Zaragoza (Spain), branches are active in the 5 continents. R+D+I department carries out research programmes for creating new products, and Engineering Department develops projects with own technology and patents. Projects with a high technological degree are supplied turnkey all over the world.

TAIM WESER runs business unit working exclusively in the development of technology and projects for the generation of energy from renewable sources biomass and wind: a) biomass through the supply of biomass fuelled clean gasification based CHP and b) development of wind energy projects.



TAIM WESER possesses wide first class expertise in the whole wind energy project life cycle worldwide, has realized and realizes projects worldwide, and acts especially in development and promotion activities, creating synergies with local partners and institutions, and fostering the use of the most efficient technologies case by case. TAIM WESER aims developing fully permitted and feasible wind energy projects and therefore, the scope of services offered by the company, from its large and geographically widespread track record, makes reference to: u Wind site identification, selection and characterisation u Wind resource assessment u Wind turbines optimal micrositng u Technical, environmental and economical feasibility reports u Search for financial resources u Grid connection negotiation and management u Land use rights negotiation and management u PPA negotiation u Permits process management.

TAIM WESER activities in wind energy focus mainly in Spain and Iberian America countries (current realizations and developments in Mexico, Chile and Brazil, prospecting other areas).



Company Presentation

Talleres Martínez, S.A., founded in 1920, is dedicated to the manufacturing, reconditioning and machining of mechanical components between 2.000 - 25.000 Kg for various industrial sectors.

Our services and professionalism are our slogan. This way we have gained the trust of our customers all over the world, that we maintain long-term commercial and personal relations with.

Forward thinking is the key to progress. Our constant renewal of equipment, together with the optimization of processes, allows us to be highly flexible and competitive in the market.

The Management of Talleres Martínez, S.A. states that the Quality is an ongoing objective in all activities of the Company, which has as its ultimate goal, to achieve the highest Customer Satisfaction with the products and services provided. By encouraging innovation in an environment of Continuous Improvement and seeking a leadership position in the market, we base ourselves on the capability to adapt to Customers needs within a dynamic, changing and competitive market.

Our staff possess adequate training and motivation for improving those processes aimed at gaining the customers and our own staff's satisfaction and following our principles of continuous improvement. We maintain a Quality System standard according to the guidelines of the UNE EN ISO 9001: 2000, which is reflected in the Quality Manual and associated procedures, compulsory for all company members.

Business lines

Since 1992 we have been offering our customers, mostly main leaders in the wind energy sector, our professionalism and our experience in machining processes and

surface treatment for the main components such as: Hubs, main shafts, bearing housings, main frames and other components whether it be cast or forged.

The complete solution for your components

Due to our contacts and friendly relationship for years with foundries and forges, Talleres Martínez, S.A. can also offer to their customers -in exceptional cases- the turn key project. That is to say, from the raw material to the finished and supplied component.

Our commitment with the customer.

In compliance with the ISO norms, we also have at our disposal apart from a new generation machine shop which is perfectly suited to our demands, tools of our own design and the necessary equipment for measuring machined components. In this way we guarantee the compliance with the required specifications by the manufacturer of wind energy turbines.



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Company Presentation

T. MECAPREC was founded in 1992. What started off as a small company with 200m² and 4 workers, has now become a company which employs almost thirty people in over 3500m². Since we were established, we have been able to experience a constant growth and are now a dynamic and flexible company, capable of satisfying the most demanding needs in the sector. In fact, we are a leading company in the implementation of precision machining up to 50 Tn. in small and medium series, and we are certified by ISO Quality 9001:2008 and Environmental ISO 14001:2004

Business lines

We mainly work for the most important companies in Spain and the European Union, which are part of the wind power, naval, metallurgical, petrochemical, railway, machine tool, nuclear sectors... We are a company dedicated to the building and mechanization of mechanical parts according to plan.

We count on the corresponding Quality Certificates, and we adapt ourselves to our clients's needs, as we are equipped with a top market technology which grants us with a large production capacity.

The majority of the parts are made of coal steels made from laminated, forged or melted, and also of other materials such as stainless steel, bronze, aluminium, etc. Standards.



Production of machining precision

The market in which we are expanding our activity is constantly developing both in Spain and the European Union, for which we invoice more than 50 % of our production. Therefore, we are constantly growing and learning. Our aim is to ensure customer satisfaction in our products, and to present ourselves as a quality alternative in the production of precision machining.

Quality control

All our products are adapted to the quality procedures we are voluntary subscribed to. In any event, our clients are the best indicators of quality we have, through their confidence they have made T.MECAPREC FACTORIES into a leading company in the production of precision machines up to 50 Tn. in small and medium series.

Areas of activity wind power sector

By manufacturing parts, Talleres MECAPREC is present in new and dynamic sectors, such as the wind power sector, as we are committed to offer top quality services and products.





Company Presentation

TAXUS, Environmental Management, Ecology and Quality Control Co. is an innovative environmental consultancy firm that was born with the objective to satisfy a growing demand for environmental management and assessment services. To accomplish this goal, TAXUS conducts a variety of environmental and ecological studies which contribute not only to better environmental practices, but also facilitate progress toward sustainable development.

In order to meet these objectives, TAXUS employs a team of environmental specialists with ample field, laboratory, and professional experience. The TAXUS team includes licensed engineers, biologists and environmental scientists, specialized in ecology, environmental impact assessment and environmental management policies and protocol.

Business lines

In the field of Environmental Impact Assessment, TAXUS collaborates with its clients to ensure success at all stages of EIA development and application:

- In the implementation of a new development or activity, TAXUS facilitates the acquisition of required authorization and permits (Initial and Environmental Documents, Authorization of Toxic Waste Production, Environmental Impact Assessment, etc.) and supports their respective follow-through during the transition process.
- During the application and integration of new permits and policies, TAXUS develops appropriate monitoring programs, revision strategies, management policies, and professional training.
- In the final stage, TAXUS proposes actions that are aimed at improving the overall environmental profile of the client through environmental restoration and recuperation projects.

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Our services include:

- Environmental Impact Assessment
- Design and Application of Environmental Monitoring Systems
- Avifauna Studies
- Quiropteroфаuna Studies
- Impact Studies of Red Natura 2000
- Studies about the Barrier Effect, Fragmentation and Ecological Connectivity Loss
- Cumulative or synergistic effects
- Mathematical models for the calculation of the probability of birdstrikes
- Acoustic Simulations and Studies
- Landscape ecology studies
- 3-D modelling
- Archaeological Studies
- Waste Management
- Environmental Park Certification

Projects

- 75 Environmental Impact Studies
- 17 Environmental Monitoring Plans
- 29 Avifauna Studies
- 35 Quiropteraфаuna Studies
- 12 Studies about the Barrier Effect, Fragmentation and Ecological Connectivity Loss
- 29 Mathematical models for the calculation of the probability of birdstrikes
- 18 Acoustic Simulations and Studies
- 45 Landscape ecology studies
- 12 3-D Models
- 42 Archaeological Studies





Company Presentation

Headed to the Industries, Companies, Entities, Organisms, Professionals and Technicians.

Tecno Ambiente gives to know the innovations, investigations and novelties in equipment and technologies and keeps up to date the information on valid environmental rule.

Tecno Ambiente collaborates in the taking of decisions of the managers of management and environmental performance, by means of the offer of products, technologies and companies that give solution to this problematic.



Tecno Ambiente offers the maximum diffusion to the projects of public and private institutions, as well as to the business realizations, keeping up to date information concerning congresses, seminars and courses, to the equal that the bibliographic novelties more useful in this field.

Tecno Ambiente offers to his advertisers the technical publication of main prestige and seriousness, with twenty years in the market, in which they will find the half more adapted to arrive to the consumer, and the most ideal form to give to know his products and services.



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Products

"Turn-key solutions: TECNOARANDA supports the whole value chain, from raw materials purchase to tower delivery at erection site"

1. Wind Turbine Towers

Completely furnished sections according to OEM's specifications

- Max. Diameter: 5.500 mm
- Max. Length: 38.000 mm
- Overhead Lifting Capacity: 80 tons

2. Foundation Systems and Accessories

- Foundations
- Door frames
- Flat flanges
- Mechanical internals

3. End-to-End Logistics

- Warehousing and custody
- Transportation to the erection site
- Export goods management



Company Presentation

Wind turbine towers supply throughout a fully integrated continuous manufacturing process.

TECNOARANDA is a young company which, driven by a team of professionals and shareholders with solid experience in the steel industry, burst forcefully onto the Spanish market in 2009 by building its first industrial plant on a plot of land in the municipality of Aranda de Duero, Burgos (Spain).

Business lines

The plant integrates three different, although totally complementary, lines of activity.

- A heavy plate service center
- A Plate working and Boiler making facility
- A Logistics activity, based on two hubs and road heavy loads transportation

The harmonious combination of the three aforementioned activity lines allows Tecnoaranda to guarantee its clients an Integrated Supply of Wind Energy Towers, all featuring the necessary accessories and delivered to the erection site or to the shipping port. We are talking about state of the art factory premises of 250,000 m2, 60,000 m2 of which are under roof, with a plant layout that guarantees the absence of unnecessary and very costly intermediate handling or transport. Tecnoaranda is an Integrated Efficient Plant that collaborates to improve the competitiveness of wind energy-generated electricity.



Company Presentation

Committed with technology and quality, Servincal bases its success in:

- A highly specialised human team composed of specialised engineers and technicians, who give a personalised solution to all our clients' requirements.
- High precision standards and equipments that comply with very strict technical requirements in order to guarantee results reliability in all processes.
- Laboratories specifically built for the purpose of minimizing any kind of external interference and equipped with a conditioning system which permits to obtain a rigorous control of the pressure, temperature and humidity conditions

Busines lines

Metrology

Servincal has a measuring service with three-dimensional equipments and last generation software at its disposal which make use of precise sensing and vision devices that minimize the uncertainty of the results and allow a high measure speed.

Calibration

An exhaustive quality control can only be performed by means of precise calibration systems of the measuring and testing equipments.

Calibration and measuring equipments calibration management

The metrology and calibration laboratories are structured according to their performance areas:

Wind Calibration. Dimensional Calibration. Temperature and Humidity Calibration. Mass Calibration. Force and Pair Calibration. Pressure and Vacuum Calibration. Optical calibration. Electric Calibration. Time and Frequency Calibration.

Training

We periodically carry out technical training courses devised for both laboratory staff and metrology professionals, as well as non-specialised staff.



We dispose of the following courses:

Metrology and calibration

- Uncertainties calculation.
- Procedures creation.
- General techniques of calibration
- Basic metrology for SMEs.
- Calibration of inspection, measuring and testing equipments.
- The calibration Plan.

Quality

- Quality System Audits.
- Internal Auditors Training.
- Calibration and control of measuring equipments as established by ISO 9001.
- ISO 9001 quality management system.

Technical

- Accidents Prevention.
- Environment.
- Welding.
- Electricity.
- Business and commercial training.

Engineering

We carry out industrial engineering projects, technological consultancy, industrial projects introduction and management....

Also machinery certification.

Design and sale of customized metrology equipments.



Company Presentation

Tesicnor SL was established in 2002 from the experience of a group of highly qualified professionals in the field of security (preventive and predictive), prevention, quality and engineering.

Dedicated to providing engineering, consulting services and technical training in the control of occupational risk prevention and environment. (H&S)

Its services are directed to companies in the renewable energy sector (70%), manufacturing (20%) and construction (10%).

We provide personalized service and high quality ensuring a fast and efficient response capacity.

Business lines

Quality Management Services:

- Quality inspector in wind farms
- Processing and monitoring of nonconformances

Training Services

- Tesicnor has a number of simulators allowing to recreate the work conditions industry professionals face in wind farms.(Nacelle ,Towers, Service Lifts, ladders, switchgears, cabinets)

Engineering

- Design, manufacturing and certification of specific tools

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- Testing
- Machine adjustments
- Review of lifting tools

Maintenance and Facilities

- Installation and maintenance of lifelines
- Ppe maintenance
- Preventive maintenance of wind turbines
- Maintenance and facilities – Progesmant software

Document management for the Coordination of Business Activities

- Our service consists of the coordination of entrepreneurial activities, through effective documentation management

Data

Our established client base: 80% have re-signed our services.

Over 4000 students per years trained in 10 countries.

- Design of Hub boom GEWE 1500.
- Design of lifting lugs for the prototipe frame 3MW Acciona Windpower
- Design and assembly of door clamps Iberdrola
- Design and manufacturing of simulators GEWE Calahorra y Albacete
- Anchor points testing (Acciona Windpower, Goian). Performed by us.

Projects

We've among other performed work for,

- Acciona Windpower
- Iberdrola Renovables
- Gamesa
- General Electric Wind Energy
- Goian
- Construcciones Mariezcurrena
- Metallic Supports
- Liebherr Steel Structures
- And over 200 live clients...



The Switch Spain

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Company Presentation

Switching power to energy is our mantra. Switching power from the wind and other natural resources into electrical energy is the soul of our business.

The Switch is a leading supplier of megawatt-class permanent magnet generator and full-power converter packages for wind power and other emerging businesses, including solar power and fuel cell applications, variable speed gensets and industrial applications.

Combining a permanent magnet generator with a power converter in a drive train is simple, but nobody integrates them into a totally optimized package the way The Switch does. Our generator and converter package, The Switch Drive™, is tailored to meet each of our customers' specific requirements and enables them to get more energy from wind power and New Energy sources.

The Switch Drive™ is the soul of every reliable wind turbine.

We aim at being the technology leader for electrical power conversion by switching one turbine at a time wherever energy is gathered.

Our mission is to make sure no potential power from wind gets lost.

Business lines

Our organization is divided into three operational units:

The Switch Electrical Machines

The Switch Electrical Machines, located in Lappeenranta, Finland, contributes to our capabilities in the manufacture of adjustable speed drives for industrial applications and in the production of rugged, reliable motors. These machines are typically used to drive vacuum pumps in the pulp and paper industry. Our competence in the production extends up to 55,000 rpm. Permanent magnet technology is used in slow and medium speed applications.

We work closely with the Lappeenranta University of Technology, a leading research institute for high speed technology with special expertise in high speed turbo machinery. The Switch Electrical Machines has received several technology awards for



its product development work, including the InnoFinland award in 1997 and New Technology Award in 1999.

The Switch High Power Converters

The Switch High Power Converters, located in Vaasa, Finland, specializes in power electronics. In Vaasa, we focus on the most demanding power electronics applications for distributed power generation, especially for utilizing alternative energy such as wind and sea power.

The Switch High Power Converters concentrates on providing power with consistent high quality and constantly seeks to improve the quality of its power solutions.

The Switch Controls and Converters

The Switch Controls and Converters, located in Hudson, New Hampshire, USA, brings know-how in controls and specialized DC/AC converters. Our focus is on solutions for use with solar and fuel cells.

The Switch Controls and Converters is a long-established partner of Semikron, a leading manufacturer of power semiconductors.

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Company Presentation

theEIO Energy is a new, innovative, and fast growing business in energy recruitment. theEIO's energy consultants are leading recruiters committed to providing an unparalleled service of recruitment solutions to both clients and candidates.

We represent energy professionals at all levels and recruit for clients both nationally and internationally in the sectors of Nuclear and Renewable Energy.

Products

This is where the action is.

theEIO Energie's consultants advise the theEIO Group as well as its subsidiaries and affiliates on key strategic recruitment aspects of the energy market. Our dedicated international team has catered for Nuclear, Wind, Solar, Biofuel and Hydro assignments, and continues its delegation with international conferences and industry specific events to make sure it maintains its knowledge and exposure in an ever expanding market.

Our consultants are aligned within a Matrix Portfolio Management system. They are focused on a specific skill-set and aligned to Energy sectors.

An abbreviated snapshot of theEIO Matrix Portfolio Management is shown below indicating how we can search on a cross-sector basis within a given skill set or down a sector vertical

Find out what work various careers involve at theEIO.

Data

WIND Energy

theEIO Energie covers multidisciplinary and international projects in the Wind Sector.

theEIO Energie provides premier personnel consultancy on technical management and engineering activities lead, project construction and planning supervision from engineering through to P&L responsibility level.





Company Presentation

Tindai, Formation, Prevention and Safety at Height is a Spanish training center for works at height. Training regarding safety, and within precaution activities, means the essential element to focus on when it comes to reduce the number of accidents at work.

Our modular training system, the highly qualified personnel at Tindai and a long experience in wind energy throughout years allow us to adapt our specific training plans, in order to satisfy the needs and requirements of large companies as well as smaller subsidiaries.

We count on the widest range of equipment to prevent falls, guaranteed by the most reliable makes worldwide, available at the training sessions. Therefore, we can show and face all kinds of safe solutions for any possible working situation.

On our search for a better responsiveness and attention to those companies requiring lectures away from Madrid and Spain, our teaching staff can move with the appropriate equipment to be adapted elsewhere if necessary.



Business lines

Information: Courses aiming to offer a wide display of the peculiarities and limits of the different safety systems. These ones consist of larger theoretical contents directed specially supervisors and safety persons in charge. Specific training to reduce the original risks.

Capability: These courses aim to make the worker capable to use correctly and properly preserve the protective equipment. The teaching procedures are mostly practical.

Update: Update of techniques not commonly put in practice, as well as offering the workers the chance to adapt to new ways and methods of work.

Technical Support

Designing and setting up fall arrest systems: Research and selection of the most efficient safety systems for work in sites of difficult access. These actions are combined with the setting-up of the necessary equipment, as well as with a training specific practice for the use of these systems.

Procedures manual: Development and creation of technical documents for advice about instructions and procedures for specific safety and risk prevention of fall-outs from heights adapted to working situations of each company.



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Service lifts: For optimum access to inside the wind turbine nacelle, TRACTEL® has developed a range of Service Lift to save service personnel the effort of climbing a ladder inside the mast.

The Service Lift is powered by a TRACTEL® TIRAK™ hoist. Lift can be rope guided or ladder guided, for 2 or 3 persons.

Climb assist: The TRACTELIFT™ is a climb assist system that relieves the weight of single or multiple climbers while ascending and descending the wind turbine ladder. The TRACTELIFT™ gives traction relief in an adjustable pulling force up to 40kg.

Material handling hoists: TRACTEL® can provide many options for all material handling needs with a wide variety of manual and electric hoists, as well as load control devices for all lifting needs. The TIRFOR® wire rope winch, BRAVO™ and Tralift manual chain hoists provide load capacities up to 20 tons. TRACTEL® also provides light-weight, durable electrical chain hoists such as TIRAK™ and MINIFOR™, with unlimited wire rope length capabilities that can be either directly, pendant and/or radio controlled. These hoists are ideal for onsite applications, making them economically cost effective compared to heavier drum winches or cranes.

Fall protection: "Safety" is TRACTEL®'s primary concern when working at heights. Harnesses that provide comfort and freedom of movement, and are designed for those who spend the majority of their time working at heights, FABA™ rigid rail ladder safety system, BLOCFOR™ self-retracting lifelines and STOPFOR™ rope grabs. TRACTEL® also offers permanent horizontal and vertical steel wire rope lifeline safety systems that provide workers with a complete fall protection solution.

Evacuation and rescue: The DEROPE™ was developed for evacuation and rescue purposes applicable to heights or confined space situations. In rescue operations the DEROPE™ can evacuate a person from high elevations, in a controlled descent using a centrifugal brake.

Blade maintenance platforms: For easy exterior access to the blades of the wind turbines, our Blade Maintenance Platforms assist in the inspections and maintenance of the rotor blades, making the job easier and more cost effective. These platforms are engineered systems that are customised to individual blade geometries.



Company Presentation

TRACTEL IBERICA, with more than 50 years in the Spanish market, is a provider of Lifting and Handling, Load Measurement, Suspended Working Platforms and Fall Arrest Safety Equipment, and specific solutions for Renewable and Wind Industry.

Our specialties include a wide variety of products such as service lifts, blade maintenance platforms, climb assist, material handling hoists, fall protection, evacuation and rescue, training and engineering of specific devices that are made for safely ascending and/or descending the wind turbines. TRACTEL designs, manufactures and maintains solutions that reduce the cost of maintenance and ensure the safety of workers at high elevations.

TRACTEL IBERICA is part of the TRACTEL GROUP, through a distribution network of over 8,000 distributors world wide, customers have access to a broad product portfolio for its diverse needs. Through a dedicated sales force and agents around the world, TRACTEL® can provide its customers with the industry's most advanced solutions to some of the most challenging requests.

At TRACTEL®, our single-source responsibility involves the combination of in-house design, local manufacturing, installation and services that assure long-term system performance and product value.

Products

Our range of products and solutions includes:

Transportes Lasarte, S.A.



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www.transporteslasarte.com



Company Presentation

Lasarte Transport, S.A. is a logistic company with significant presence in the wind sector, the field where we have been working steadily and specialized for more than a decade, with projects in Europe and North Africa.

We have a wide fleet of vehicles and special equipment for the wind industry, capable of responding to the needs of our customers under difficult circumstances. We also have a maintenance workshop for our vehicles, a bridge crane and a loading dock in our facilities, which are permanently controlled by a security system.

Leading wind power manufacturers such as General Electric, Siemens or Vestas directly entrust their projects to Lasarte, thanks to the added value we provide within the technical field scope of applied engineering and transportation.

It is here where Lasarte shows its main differentiator over other carriers because, in addition to feasibility reports with high level of detail, which specify the civil works necessary to allow transports, identify alternative routes and simulate critical



points by using computer aided design, our R + D department designs and manufactures tools and other innovative mechanisms for transport and handling of individual wind components.

Lasarte performs the complete logistic for supplying turbines to wind farms, from the loading point of manufacture to the delivery of components ready for installation, that is, organizing shipments, handling, storage and other loading and unloading operations, always applying the highest standards of quality, environment and safety that Lasarte maintains under the certified management system ISO 9001, ISO 14001 and OHSAS 18001 through the German certification company Germanischer Lloyd AG.

The company has a multidisciplinary team-oriented to search logistics solutions for the industry in general and in particular the wind power, providing services to our customers wherever they need us.





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Company Presentation

TÜV Rheinland: A leading technical services company for a sustainable development

The Group's mission and guiding principle is to achieve sustained development of safety and quality in order to meet the challenges arising from the interaction between man, technology and the environment. Founded in 1872 and headquartered in Cologne, the Group employs more than 13,300 people in 490 locations in 61 countries and generates annual revenues of € 1.1 billion.

The TÜV Rheinland Group is a leading provider of technical services worldwide. Since our foundation in 1872, we have been developing safe and sustainable solutions. As an independent, neutral and professional organization, we are committed to working towards a future that can fulfil the needs of both mankind and the environment in the long term. In the ever changing markets in which we operate, our focus

is on serving customers, achieving success and constantly enhancing our appeal to customers, partners and staff.

With our expertise, we create technological solutions, which help to overcome ecological conflicts and crisis or to prevent them in the first place. Our experts use their knowledge to prevent unrepairable damage to the natural environment. In a network drawn from science, politics and industry, we work on common solutions for the challenges of our time.

Business lines

Industrial Services · Wind Energy

Harnessing the wind. Your reliable power source.

The full range of wind energy services.

No matter how complex your project may be.

You can always rely on the support of TÜV Rheinland.

Wind farm project activities have become far more complex in recent years. Changes in site conditions, the development of more powerful systems and connecting them to the grid – these are some of the major challenges that manufacturers, suppliers and energy companies now have to confront.

As a leading service provider in the energy sector, TÜV Rheinland offers comprehensive, individual consulting for the implementation of your projects – with a service portfolio that covers the full range of functions, from site selection to design and manufacturing support to the dismantling of plants.

Our excellence is rooted in interdisciplinary competence. Valued partners to many energy companies, our expert's comprehensive knowledge of legal and technical requirements relative to plant operations are typical hallmarks of TÜV Rheinland. Our focus combines economic aspects with the preservation of man and environment, and our clients include both major corporations and municipal utilities. Take advantage of our extensive service offer and our international presence





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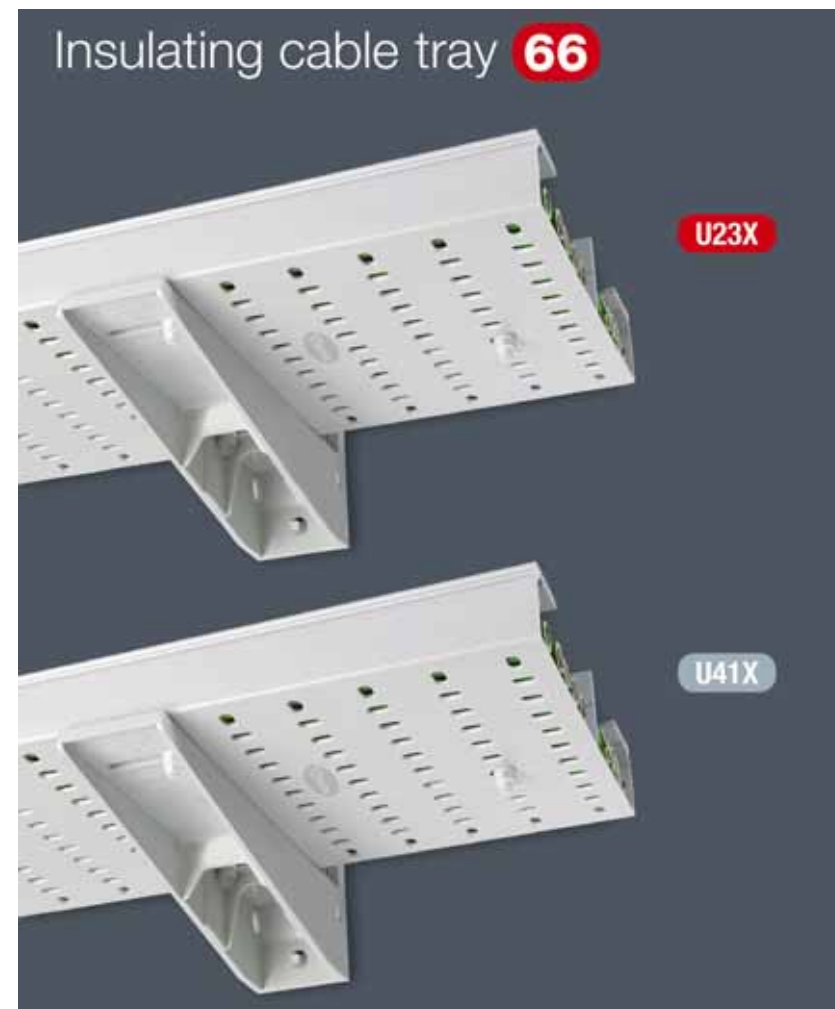
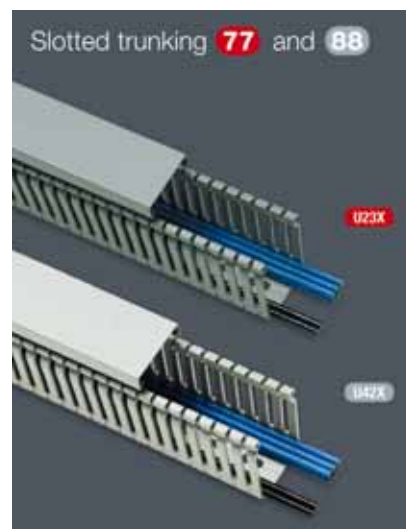
www.unex.net



Company Presentation

Unex is an independent European group, specialized in the manufacture of own-formulated raw materials and insulating solutions for cable conduction and fixing. Because one of our strongest policies is the respect for the environment, all our products are RoHS Compliant, with VDE certification, and tested under the most stringent international standards. Installation security is our top priority, therefore each and every one of our products assure electrical safety (insulating material), as well as mechanical and fire safety (high-impact resistant and non-flammable material), according to the European Standards for Cable Trays and Trunkings. Moreover, thanks to our broad experience as a specialist manufacturer, our products are ideal for outdoor installations (results guarantee good performance in front of environmental factors, exposure to chemical agents and at different temperatures).

We offer our clients a value added service thanks to our competitive lead times assured by our world-wide distribution network, and because our team of engineers provide personalized technical advice.



Business lines

Wire conduction and fixing.

Products

Insulating cable tray 66 in U23X and U41X (halogen-free), insulating trunking 73, weather resistant cable ties 22, slotted trunking 77, and halogen free slotted trunking 88.



Company Presentation

UniportBilbao is the association for the competitive development and commercial promotion of the port of Bilbao and its companies. We join together more than 140 companies, committed to the improvement of the port of Bilbao, that offer all kind of transports and logistics, of any kind of products, to any destination all around the world.

There are many different companies at the port of Bilbao with a high degree of specialized knowledge on transport and logistics for the wind energy sector that offer:

- Maritime services from/to Bilbao throughout the world offered by logistic operators, shipping companies and freight forwarders. Include chartering services.
- Facilities for the assembling and storage of wind power turbines parts and renewable energies, operated by terminal operators and stevedoring companies.



- Logistic depots and warehouses.
- Road transportation of wind turbine parts: rotor blades, shafts, generators. Authorized and specialized companies for this kind of special transports and related services.
- Custom agents, clearance services, border control, custom status facilities, cargo surveyors and bonded warehouses.
- Administrations and Official Organisms involved in the competitive development of the PORT OF BILBAO and its companies: Port of Bilbao Authority, Basque Government, Regional Council of Biscay, Bilbao city Council, Bilbao Chamber of Commerce, Industry and Navigation, etc.

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Uniport  Bilbao
Port Community



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Company Presentation

Uría Menéndez is recognized as one of the leading commercial law firms in Spain, and possibly one of the few firms with a practice area in energy law and a long-standing reputation in project finance. Uría Menéndez's energy practice is now considered as a reference in Spain.

The Energy practice area is composed of four partners and more than a dozen lawyers. In addition, the group is closely supported by lawyers in related areas of expertise, such as financing, competition, tax and environmental law.

It is a profound understanding of the financial and energy markets that renders Uría Menéndez the market leader in non-recourse and limited-recourse financing of power facilities, LNG regasification plants, large wind-farm projects, solar projects and, generally, all sorts of other energy infrastructure projects.

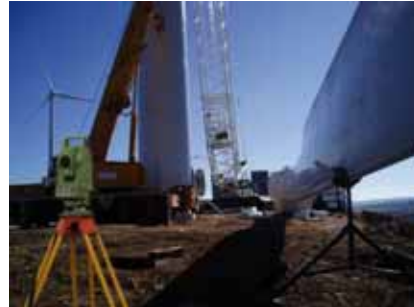


Our practice is not limited to matters in the Iberian Peninsula, as the firm has been involved in numerous financing deals elsewhere in Europe and Latin America.

Our experience in project finance extends to public infrastructure (national and cross-border), including highways, railroads, ports, dams, purification plants, water channeling and large development projects.

Our clientele in these projects is as varied as the projects themselves, and includes developers and financiers, as well as monoline insurers and rating agencies.

Uría Menéndez consistently tops the Spanish rankings in energy and non-recourse and limited-recourse financings



Company Presentation

We are an UTM-89, one company dedicated to giving integral services in Topography and Auscultations to all kinds of Works and Projects, for Construction, Engineerings, Administrations, etc.

Centring on the world of the new energies, a Topographic experience supports Us, of ours technical personnel, of more than 20 years in civil works with big national construction companies, with the commitment to realize an Engineering of Quality and Precision, using for it the last technology and the high experience of our professionals.

We are strategically located it is Esparragosa of Homes, Badajoz, epicentre of the triangle of the Estremadura, Andalusia and Castile the Spot.

We give technical assistance to Projects and Works across:

- Topographic Direction - Chiefs of Topography
- Equipments of Office and Field
- Equipments of support to works.

Business lines

Structure:

Replant You and geometric control of all kinds of structures, viaducts, pilasters, pilotages, control of deformations, piles.

Roads / urbanizations:

- Calculate and execution of all kinds of road work, from the first study across the topographic Raising, lace and new tracings of project., for his later one I restate of profiles and points typical of the work of executing.
- Control and I calculate of big movements of land, mass-haul diagram, compensation lands etc.

Renewable Energies:

- Plants of wind power, Solar, Photovoltaic, etc.

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Geodesic Auscultations:

- Control of structures in phase of movement.

Hydraulic Works:

- Channels, stations of appraisal, rivers etc.

Electrical Networks

Tracing of longitudinal profiles, study of typical points for control of chains.

- Geometric Control of Works.
- Direction and topographic execution in work.
- Technical Assistance in Projects.
- Linear Studies of Tracing.
- Geodesic Auscultations in Structure, Viaducts, Dams.
- Equipments of support for Work and Technical Assistances.
- Photogrametrical Supports with GPS for restitution.
- Golf courses.

Projetcs

- Raisings and Topographic tracings (UNTHING - R.E.E.)
- Restate and control of structures for piles and shoes (Madrid)
- Update of public mount (Badajoz)
- Industrial estates (Badajoz)
- Hydraulic Works (You Structure prefabricated girders) Ciudad Real
- Urban development Complexes and Golf courses (Badajoz)
- Variants of road, Highway
- Developments and I calculate of road





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Company Presentation

VALORIZA ENERGÍA, S.L.U. is a subsidiary company of SACYR-VALLEHERMOSO GROUP focused on the promotion, design, construction and operation of power plants based on renewable and cogeneration energy.

The design and construction phases are executed through VALORIZA ENERGY's subsidiary turn key contractor IBERESE.



Business lines

- Preliminary assesment
- Feasibility study
- Basic and detail engineering
- Purchase process
- Construction of installations
- Energy management



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Company Presentation

Vestas is the only global energy company dedicated exclusively to wind energy – striving for business case certainty and the reduction of the cost of energy for our customers. Vestas works in close partnership with customers to offer the most effective solutions towards energy independence.

Our core business is the development, manufacture, sale and maintenance of wind power plants – with competences that cover every aspect of the value chain from site studies to service and maintenance.

At the end of 2010, we have installed over 44,100 wind turbines in around 70 countries on five continents. Along with this vast experience, we have the data to support the prediction that, if the necessary policy decisions and investments are made now, by 2020 as much as 10 per cent of the world's electricity consumption can be generated by wind energy.

In order to retain our technology leadership position, Vestas invests heavily in development facilities and human resources. We operate the world's largest research and development centre for wind energy in Aarhus, Denmark, and we have also established R&D facilities in China, Germany, India, Singapore, USA and the UK. Only in 2010, Vestas increased the headcount in Vestas Technology R&D from 1,490 to 2,277 employees.

Our vision is to establish wind power on a par with existing energy sources such as oil and gas.

Business lines

Our expertise involves more than just delivering wind turbines. We cover the entire life cycle of a wind power plant, minimizing our customers' risks and increasing their returns. We work as a strategic business partner helping our customers from the moment they decide to invest in wind until long after the wind power plant has been commissioned.

Specialized in planning, installation and operations from site studies to long-term maintenance, Vestas Mediterranean supports customers in finding and designing

the right site; performing the electrical work, installation and commissioning; servicing and maintaining the wind power plants and optimizing their wind power production. Vestas Mediterranean is one of the largest sales business units in the Vestas Group managing all sales, installation and service operations in Southern European countries, Middle East, Latin America and 70% of the African continent

Besides, Vestas Mediterranean can provide guidance to our customers in connection with the development, financing and ownership of wind power projects.

Products

- V52-850 kW - A very versatile turbine suited for medium and high wind speeds.
- V80-2.0 MW - Designed to optimize performance and output at any high wind class site.
- V90-1.8/2.0 MW - The V90-1.8 MW and V90-2.0 MW turbines have been designed to make the most of medium and low wind sites providing superior energy-based availability.
- V90-3.0 MW - The V90-3.0 MW, which offers an exceptional performance at high wind speed sites.
- V100-1.8 MW - NEW! The V100-1.8 MW turbine is designed for high energy production from low wind sites.
- V112 – 3.0 MW – NEW! Designed for low and medium wind speed sites onshore and offshore.

Data

- We now have delivered more than 43,000 turbines
- We are in 66 countries on 6 continents
- Our turbines produce about 95 million MWh/year
- Delivered in 2010 16.3 % of the total global capacity
- installs a new turbine every three hours, worldwide
- 2010's order intake: 8,673 MW
- has a 2010-revenue of EUR 6,920 million
- employs more than 20,000



Viento y Energía, S.L.



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www.vientoenergia.com



Company Presentation

Viento y Energía (Wind and Energy) is a company with a long trajectory in the creation and development of projects and facilities within the sector of renewable energies in the Andalusian Community, where it has developed projects of more than 800 MW, of which more than 218 MW have already been installed and/or are under construction. Viento y Energía (Wind and Energy) participates with some of its clients in the promotion of diverse renewable energy plants, participating in the promotion and execution of more than 960 MW in various autonomous communities and countries.

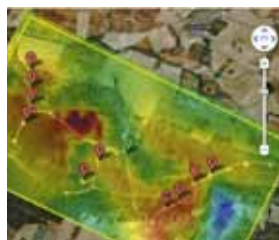
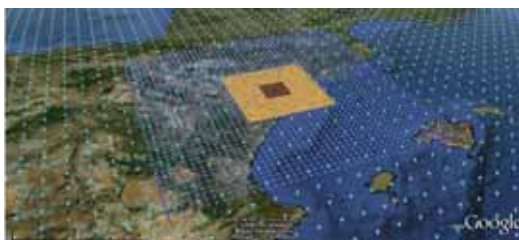
Business lines

- Wind energy
- Project Finance Advising
- Biomass. Energy Crops.
- Biogas.
- Photovoltaic.



Projects

El Conjuero Wind Farm	El Conjuero Wind Farm, 13,6 MW.
Las Lomas Wind Farm	Las Lomas Wind Farm, 15 MW
Los Jarales Wind Farm	Los Jarales Wind Farm, 16 MW
Loma de Ayala Wind Farm	Loma de Ayala Wind Farm, 20 MW
Tres Villas Wind Farm	Tres Villas Wind Farm, 50 MW
Las Lomillas Wind Farm	Las Lomillas Wind Farm, 12 MW
VYESOL Solar PV Plant	VYESOL Solar PV Plant, 5,67 MW
Loma del Capón Wind Farm	Loma del Capón Wind Farm, 30 MW
Valcaire Wind Farm	Valcaire Wind Farm, 16 MW
Tajos de Bazán Wind Farm	Tajos de Bazán Wind Farm, 34 MW
Cortijo Bono Wind Farm	Cortijo Bono Wind Farm, 30 MW
VyEGas La Granjuela	VyEGas La Granjuela Biogas Plant, 500 KW
VyEGas Darro	VyEGas Darro Biogas Plant, 500 KW
VyEGas San Julián	VyEGas San Julián Biogas Plant, 500 KW
VyEGas Santaella	VyEGas Santaella Biogas Plant, 500 KW
VyEGas Écija	VyEGas Écija Biogas Plant, 500 KW
VyEGas Mendoza	VyEGas Mendoza Biogas Plant, 500 KW
VyEGas Piedras	VyEGas Piedras Biogas Plant, 500 KW
VyEGas Piquillo	VyEGas Piquillo Biogas Plant, 500 KW
VyEGas Guadalen	VyEGas Guadalen Biogas Plant, 500 KW
VyEGas Venta Chica	VyEGas Venta Chica Biogas Plant, 500 KW
Rosa de los Vientos Wind Farm	Rosa de los Vientos Wind Farm, 194 MW
Marañón Wind Farm	Marañón Wind Farm, 40,8 MW
Portobello Wind Farm	Portobello Wind Farm, 59,5 MW
Nuevos Chagres Wind Farm	Nuevo Chagres Wind Farm, 42,5 MW
La Miel Wind Farm	La Miel Wind Farm, 25,5 MW
Cerro Azul Wind Farm	Cerro Azul Wind Farm, 40,8 MW
Los Cuellos Wind Farm	Los Cuellos Wind Farm, 49,5 MW
Los Cerrillos Wind Farm	Los Cerrillos Wind Farm, 49,5 MW
Granada Energía Biomass Plant	Granada Energía Biomass Plant, 13.025 KW
Planta Piloto Biomass Plant	Planta Piloto Biomass Plant, 767 KW
VyEMass Project	Biomass Plant, 13 MW



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Company Presentation

Vortex is an on-line atmospheric modeling service addressed to the technical Wind & Site departments that provide estimations of wind at places or periods where no measurements are available.

Vortex started its technology development in 2007 by former wind professionals (with more than 15 years of experience). Our products have been designed after intensive dialog with the wind industry and due to Vortex open business model we benefit from the feedback of our clients.

Business lines

Vortex's business model is innovative: remote computing. Clients don't need to buy sophisticated hardware, be modelling experts or go through a consultancy process. They run our technology remotely initialized by a couple of clicks and get their results in hours.

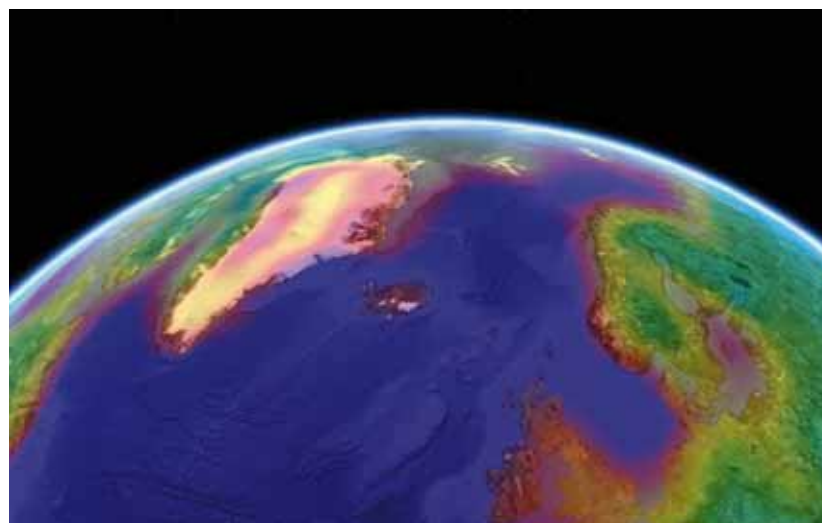
Vortex technology reverses the traditional wind modeling process (where wind measurements at one point are extended to cover a larger area) by down-scaling wind patterns over large-areas to your points of interest (irrespective whether or not you have measurements there) using a supercomputer cluster.

Products

Vortex MAPS are offered at 3 and 1 km resolution covering an extension up to 100,000 square kilometers exportable to industry-standard KML and ESRI formats.

Vortex MAST has been designed for the preliminary stages of wind site development, when the investment risk is highest. Vortex MAST provides 1-year estimated wind statistics at any location world-wide at Microscale resolution, at a small fraction of the price and delivery time of a real mast installation.

Probably the most complete modeling product on the market, Vortex FARM includes long-term (30 years) main statistics at any point within the area of your planned wind farm plus high-resolution (100m) mean, extreme (Vref) and turbulence wind maps.



Vortex SERIES come with correlation warranty: a 6 months sample is available free-of-charge for you to decide if purchase our 3km (the finest in the market), site centered, long-term time series after comparing against your measurements.

References

Among Vortex clients, some of the major players in the industry: Iberdrola, Acciona, Gamesa, E.ON, FCC, Barlovento, Mainstream, Natural Power, RES, RWE, SSE...





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Company Presentation

YES WEIR presents itself as a general provider of products and services for operation and maintenance within the renewable energy sector worldwide. Minded to meet the demand of developers and technologists in each of the phases of a project. Currently, our 5 years of international working with more than 300MW constructed, over 500MW in commissioning of turbines, 600MW under maintenance and surveillance, more than 460 major corrective interventions in all types of complex actions for turbine repairs and our participation in more than 120 modifications and design improvements on turbines, support us.

Business lines

WEIR YES provides high-quality, customized solutions on most of the phases within a project. Our services are mainly focused on Wind Farms, Solar Thermal Plants and PV Plants, but also traditional energy plants are covered.

- Engineering/Consultancy
- Stocks and logistics management
- Technical Training
- Execution of due diligence /audits
- Construction (Wind Farms, CSP, etc.)
- Start up/Commissioning
- Operation of wind farms
- Maintenance/preventive, corrective/major corrective actions
- Inspections
- Repowering



Products

WEIR YES provides a wide range of products for the renewable energy sector. By associating with key equipment manufacturers, our company is able to offer a complete range of complementary equipment for prediction, operation and optimization of Power/Generation units.

- Elevation Systems (Lifts, Climb Assist Systems, Platforms, etc.)
- Obstruction/Navigational Light Systems (Certified lighting systems for WTG, Meteorological towers, CSP Towers, etc)
- Oil Change System (Gearbox and hydraulic oil changes)
- Meteorology System (solutions for the evaluation of wind and solar potential).
- Predictive Maintenance Systems (particle measurement sensor system, systems for failures in turbines and other equipment, etc..

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Company Presentation

With an experienced team servicing composites since 1995, WindCom was formed to directly serve the needs of blade manufacturers, wind turbine manufacturers, wind farm owners/operators, construction companies and utilities.

As part of the Tecsis Group, which includes the world's second largest manufacturer of wind turbine blades, WindCom shares a focus on technical competence and high flexibility to rapidly attend the most demanding needs in the wind market. WindCom is able to offer its customers unparalleled levels of service. WindCom works with blades from all manufactures and always employ the highest grade materials possible. WindCom technicians are always individually trained and certified on specific repairs and capabilities.

Business lines

Today, WindCom supports customers across multiple countries, providing effective and safe solutions to the most complex composite service needs.

We provide services in:

- Preventive Maintenance
- Reactive Maintenance
- Retrofit Programs
- Supply Chain Support

We operate in multiple geographies:

- North America
- Europe
- Brazil

We have expertise in all access methodologies:

- Suspended scaffolds
- Internal blade access
- Rope
- Aerial platforms





Company Presentation

Wind To Market S.A. (hereinafter "W2M") is a company based in Madrid (Spain). The company was founded in 2004 by Gamesa to provide an integral service to its clients. Currently W2M belongs to CIMD holding group providing a wide range of third party electricity management services and brokering in CO2 markets, to attend the necessities of the facilities affected by the Kyoto protocol. W2M just provides market services and does not hold own interest in the market or in any other energy company.

Activity highlights:

- W2M is dedicated to the representation of special regime facilities, reducing the cost of the imbalances and transmitting to the producer, the experience and knowledge of a multidisciplinary team with a wide experience on this field.
- W2M is also dedicated to brokerage in CO2 markets, providing to the emitters access to the wholesales markets through BlueNext exchange and OTC markets, providing the fastest brokerage services and advising its clients in the allowance management, as well.

Products

- 24 hour dispatching and settlement services.
- Market imbalance reduction.
- Market information and analysis.
- Real time monitoring connected to the System Operator.
- Advising independent retailers, managing their market operations:
 - Customer pricing tools.
 - Spot energy purchases.
 - Interconnector dispatching.
 - Meter readings.
 - Market data information.



- Bluenext market member.
- Provide spot EUAs market access.
- Marketing and broking services for primary and secondary CERs, ERUs and VERs.
- Emission market consulting services.
- Provides emissions calculations for not-complying companies and voluntary emissions reductions by providing a wide range of VERs projects and certifications.
- "Tailored" deals:
 - Swaps EUAs – CERs, at Dec-xx or "stripped"
 - CALL or PUT Options with EUAs or CERs as underlying
 - "Repo" deals "spot vs forward" that gives the finance through a CO2 rights loan
- Services in carbon projects:
 - CDM Projects:
 - ERPA and negotiation
 - CERs sale
 - VER Projects:
 - Advise in the verification procedure (VCS ver 2007, GS VER, VER+, VOS, Carbon Social)
 - Search of counterparts
 - Negotiation of conditions



Company Presentation

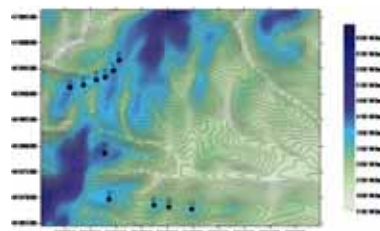
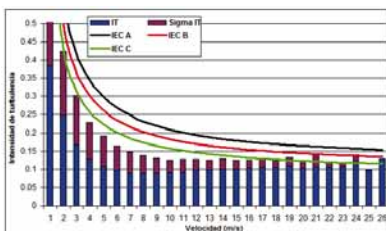
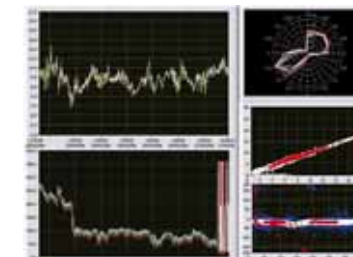
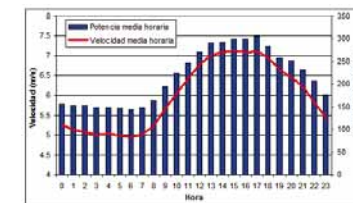
WINDTEC ENERGIA is an independent engineering company arisen from the association of experts in the sector of the renewable energies, with experience in a wide range of technologies in the different areas of this sector. With a corporate philosophy of constant improvement, WINDTEC offers to our clients a human team, our more valued resource, consist of more than a 75% of engineers offering satisfactory solutions to any requirements. Thus, we work together with our clients to define, to develop and to reach their requirements in terms of quality, time and cost.

WINDTEC relies on a team of professionals with wide experience in the different areas of the wind energy industry. Thus, we are qualified to carry out successfully any project of this type from its earlier phase up to the final phases of the same one.

Business lines

Our business areas include, among others, the following points:

- Wind resource assessment
- IEC Class analysis
- Optimization and "Micrositing" of wind farms
- Wind farm Repowering
- Wind farm Curve and operating analysis
- Site location
- Assembly Management of meteorological mast and measurement campaigns
- Noise studies
- Wind farms projects
- Permitting



- Technical assistance
- Due Diligence process

Projects

Currently, WINDTEC ENERGIA is developing wind farms projects at Eastern Europe, Mediterranean Countries, Central America and South America for the main European electric companies.





Company Presentation

Woodward Kempen GmbH is an international operating company with headquarter in Germany and one of the leading manufacturers of converter systems for wind turbines. More than 6.000 innovative CONCYCLE® converters for the operation of speed variable, doubly-fed asynchronous generators emphasize the experience Woodward has in the wind energy sector. Solutions are offered for a very wide power range, i.e. from 600 kW up to 6 MW, onshore and offshore, DFIG and full-size. Wind turbines with Woodward converters are installed worldwide.



Business lines

Woodward Kempen GmbH supplies electronic controls systems for wind turbines. In particular the following devices are manufactured by Woodward:

- a) Doubly-Fed Converters
- b) Full Size Converters
- c) Protection relays for wind turbines (at low and medium voltage).
- d) Power measurement transducers.

Woodward has a large experience in offshore installations with more than 5 years of operation of converter systems installed in offshore wind turbines



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WPD RENOVARABLES S.L. contributes to all stages of a project ranging from the land lease agreements to the start and finish of the permit approval process. Also arranging risk capital and supporting our partners with the planning, as well as having the wind turbines available and the financing ready when receiving the final permit approval. We ensure the quickest possible implementation of the project as a result.

Besides our experienced team supports the management by selling individual projects to individual investors or even institutional investors, whenever larger portfolios of projects are prepared for sale. All phases of the sale are accompanied by the wpd group's staff.

We also undertake the commercial management and technical operating management of already running projects.

Data

wpd group have completed projects with an output of more than two gigawatts and we will pursuing an important pipeline of 7000 MW onshore.



Company Presentation

WPD RENOVARABLES S.L. was founded in 2000 as a wind farm developer. As a subsidiary of the wpd group, a market leader in Germany, our Spanish offices are located in Almería, Valencia and Valladolid.

Business lines

In addition to the development of own projects, WPD RENOVARABLES S.L. purchases or takes over project rights, the commercial set-up, the contractual drafting and the project's financing until completion.

WPD RENOVARABLES S.L. configures projects according to the banks requirements during the commercial concept and draws up a calculation of economic efficiency as well as a continuous planning of the liquidity for the wind farm. We accompany the project through the entire financing phase.

We also undertake the project management of the wind farm complete construction phase.

Our many years of trustful business relationships as a major customer for suppliers, especially manufactures of equipment, suppliers of the electrical infrastructure and banks, enable us to implement projects as quickly as possible. We implement most of the projects jointly with small and medium-sized project developers, which generally have a regional connection.



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Company Presentation

The German Group ZF develops, produces and services driveline and chassis technologies around the world. It ranks high on the list of leading automotive suppliers and aims to build and expand its presence in established markets. The consistent focus on customer needs is at the heart of the company.

ZF has been a mainstay of the gearbox field for years and also applies its expertise and experience to wind energy plants. ZF Services thus offers a comprehensive range of services for the maintenance and repair of wind energy gearboxes – both onshore and offshore.



Minimize wind energy plant downtimes

ZF Wind Energy Division, has been successfully overhauling and testing wind turbine gearboxes, including the most commonly used Vestas and Siemens/Bonus wind turbines for over 3 years and has established relationships with wind-turbine gearbox manufacturers enabling units to be overhauled and upgraded to the latest specification.

ZF Services at Madrid forms part of a pan-European organisation dedicated to the overhaul and maintenance of wind gearboxes, with overhaul facilities also in Germany, Great Britain, France, Italy, and North America.

At Madrid, we have the capability to overhaul gearboxes of up to 4WM and have our own in-house test rig for gearboxes up to 2MW in size. Our test rig validates the gearbox overhaul and tests for vibration, temperature, noise, and oil flow to ensure reliability and quality of the repair.



Company Presentation

Make Zigor your choice in renewable energies.

Zigor, leading company on the technology market offers you tailor-made solutions in accordance with your requirements both off-grid & on-grid solutions.

ZIGOR CORPORACIÓN S.A. was established in early 1998, as a High-Tec Power Electronics and Digital Design Company within the Power Electronics sector.

Zigor is committed to the Research, Design, Manufacture and Sale of products and services in fields such as DC/AC Power Conversion Systems, Development of Customised Electronic Solutions and Renewable Energy, in an attempt to strengthen the current Energy Model with subsidiaries and commercial offices all around the world.

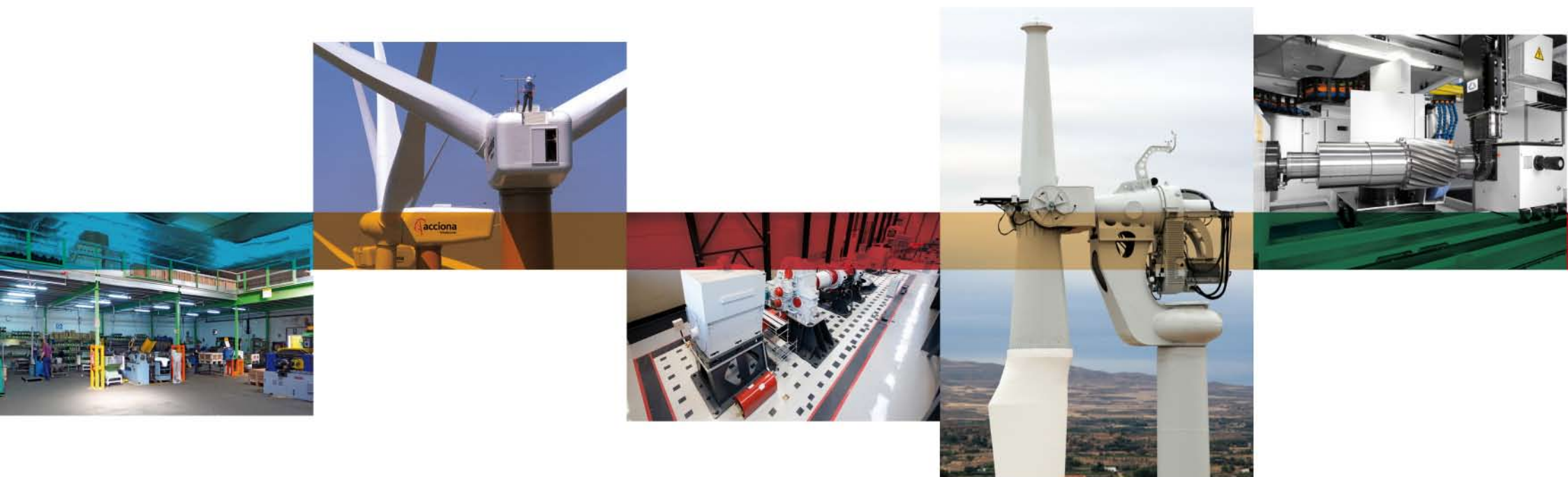
Business lines

In the Wind energy sector, Zigor has developed and commercialise on-grid and stand alone wind power solutions, small windturbines and an innovative system designed to Adapt Wind turbines to cope with sags (EOLIC SEPEC).

Products

- Hybrid inverters for Solar and Wind Generation, Batteries and Grid or Gen-set: The range of HIS/HIT hybrid inverters is designed to meet power requirements in locations not covered by the grid or where electricity is very expensive. For off-grid applications, the range of inverters goes from 1kW to 11kW in case of single-phase inverters (HIS), and from 30kW to 100kW in case of three-phase hybrid inverters (HIT).
- Wind Zet 25/100kW: The range of WIND ZET wind power inverters is designed to cover the needs of all wind power generating plants connected to mains networks (Nx25 & Nx100Kw).
- Small windturbines: the range of small windturbines goes from 300W to 6kW. They have been designed for superior performance at low wind speeds, and to operate with inverter for connection to a single-phase or three-phase grid. They can also be used for off-grid application.
- EOLIC SEPEC: System designed to Adapt Windturbines (irrespective of their technology) to cope with voltage sags in order to guarantee continuous operation. Zigor Corporación has achieved the PO12.3 certification that recognized the adjustment of the EOLIC SEPEC to several models of wind turbines





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