



serena

Wind professionals



Wind professionals

Serena obtains the maximum performance from windpower generation installations. Technical and human professionalism at our customers' service.



Wind-sector specialists

Serena is a specialized wind-sector services company which helps its customers obtain the **maximum performance from renewable energies.**

Our experience in this industry allows us to offer a comprehensive service which provides solutions to the needs of energy companies, manufacturers and promoters in all phases of their projects.

Serena signifies the very latest technology in the hands of specialized professionals, thus ensuring the highest quality service for our customers.

We have bases in **Spain**, the **USA** and **Chile**.

Quality, environmental, and occupational health and safety certified, ISO 9001, OSHAS 18001 and ISO 14001.

SPAIN
Poligono Mendikur, nave 14
31160 Orkoién,
Navarra
T. +34 948 32 16 30
F. +34 948 32 16 31
info@serenasl.com

EE.UU.
Pensilvania
3070 Bristol Pike. Building 1, Suite 221
Bensalem, PA 19020
T. +1 215-639-2261
F. +1 215-639-2288
info@serena-usa.com

Wisconsin
1009 W. Glen Oaks Lane, Suite 109
Mequon, WI 53092
T. +1 414-702-1653
F. +1 262-240-0662
info@serena-usa.com

CHILE
Santiago - Chile
Casa Matriz Huérfanos 835
piso 21 Edificio Opera
T. +56 2 956 3056
F. +56 2 243 7547





High degree of specialisation

Serena can count on highly specialized employees, all of whom undergo continuous on-the-job training



On the ground

Our field staff are responsible for the installation and maintenance of wind turbines.

These professionals are highly trained and specialized in the different processes involved, **use the very latest equipment, and are qualified to perform even the most complex procedures in the turbines.**

Technical Department

Serena's Technical Department studies the projects and provides the company's field staff with all necessary oversight and documentation, including **technical instructions, assembly check-lists and technical material guidelines.**

This oversight, together with the final product and regular quality inspections, allows maintenance to be managed in an effective manner, thus allowing us to provide a higher quality service and to keep our customers informed of the status of their projects in real time.

Serena offers its customers a comprehensive service, working with them in all phases of their projects



During the assembly process

Serena monitors the entire turbine installation process, including assembly, to guarantee compliance with the specifications established by the customer.



Service guarantees

Assembly oversight

Assembly, support and construction process control oversight from receipt of the components until their start-up.

Turbine quality inspection prior to start-up

Oversight of installation and assembly of wind farms, including torque checks.

Installation of elevators

Installation of ascension support devices Installation of lifelines

Installation of meteorological towers

We guarantee the traceability of our equipment at all times



Serena is authorized by the main manufacturers in this sector

Preventive maintenance and wind farm operation

- > Wind farm operation and maintenance
- > Lifeline maintenance
- > Maintenance of elevators and ascension support devices

Corrective maintenance

- > **Replacement of major components**
 - >> Blades, generator, multiplier and other parts of the turbines
- > **Replacement of minor components**
 - >> Gearbox and generator bearings
 - >> Ring gear
 - >> Brake reducer
 - >> Calipers

Predictive maintenance

- > Inspections of elements critical to the turbine's working life with videoscope and Rollscan Barkhausen (gearbox, main axis bearings generator bearings, etc.)
- > Analysis of multiplier and hydraulic system lubricants
- > Installation of Gastops particle counter

Study, design and in-machine modifications

- > Installation of elevators and ascension support devices
- > Installation of lifelines.
- > Installation of SKF automatic lubricator

End-of-warranty quality audits

Working wind farms

Serena's work can best be understood in the turbine maintenance and upgrade process. The company repairs faults and replaces turbine components as part of its corrective maintenance program.



**Only the best
work with Serena**





We are the wind professionals

Highly qualified staff

Own equipment

- > Tensioning equipment
- > Manual and hydraulic controlled tightening equipment
- > Videoscopes and Rollscan Barkhausen
- > Load cells
- > Lubricant pumping and cleaning equipment

All equipment traceable and ENAC accredited

ISO 9001 Quality Certified, ISO 14001 Environmentally Certified and OHSAS 18001 Occupational Health Certified

Installation and maintenance of more than 2000 elevators from leading companies

Installation and maintenance of more than 4000 lifelines

Servicing of more than 3000 emergency descenders vital for the evacuation of turbines

Oversight of more than 1000 turbines

Inspection of more than 2000 gearboxes, with the capacity to provide up to 10 simultaneous inspection teams in any part of the world

Bearings changed in more than 2000 gearboxes



serena
Wind professionals



