

INGETEAM INC.
Suite 102 - 1025 W. Glen Oaks Lane
Mequon, WI 53092 - USA
Phone: +1 262 240 9850
Fax +1 262 240 9854

Ingeteam

PC001101_A INFORMATION SUBJECT TO MODIFICATION



Wind Energy Services

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Operations and Maintenance Services

Tailored to your needs

Since 1999, Ingeteam has been providing services related to the **Operation and Complete Maintenance of Wind Farms**. At present, Ingeteam provides services in 57 Wind farms all over the world, with a total installed Wind Power Capacity of 2000 MW. This diverse expertise allows Ingeteam to become your 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 Maintenance Tasks of Wind Turbine Generation (WTG) units in accordance with manufacturer 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 Developer requirements, by maximizing site availability.

Increasing your availability

Our scope of services in Operations & Maintenance is **adaptable to final customer needs and requirements**.



- 1 Augmentation of customer's in-house maintenance team or support for specialized maintenance tasks
- 2 Scheduled maintenance programs, in accordance with manufacturer instructions.
- 3 Scheduled & Unscheduled maintenance with guaranteed incident support.
- 4 Custom designed maintenance support programs with guaranteed availability.
- 5 Turn key wind farm operation and maintenance with guaranteed availability.
 - Operational performance monitoring & optimization
 - Preventive & Scheduled maintenance programs
 - Spare parts and components stocking
 - Purchasing and Logistics

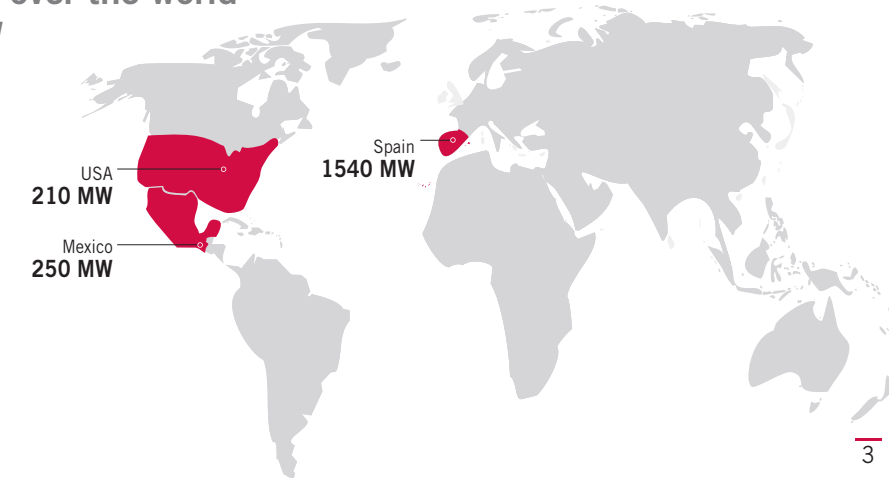
OEM

Our **OEM (Original Equipment Manufacturer)** expertise includes:

- Gamesa
- Acciona Windpower
- General Electric
- Vestas
- Mitsubishi
- Suzlon

57 wind farms maintained all over the world

with a Total Power Capacity of 2000 MW



Services

Ready for your challenges



Start-Up Services

- Construction on-site Quality Audits
- Precommissioning
- Commissioning
- Manufacturer / Developer Retrofitting



High Voltage Services

- Power-Transformers and substations
- Quality audits and corrective maintenance
- Predictive maintenance: Termography-Oil Analysis



Blade Servicing

- Periodic cleaning
- Preventive maintenance
- Turn Key on-site corrective maintenance
- Glass-Fiber finishing jobs



Management and Engineering Services

- Work instruction development and implementation
- Maintenance specific tool design and certification
- Specific training courses
- Checklist development
- Maintenance Engineering Program Design



Big Component Servicing

- Gearboxes-Generators-Nacelle replacement
- Repair of Gearboxes-Generators
- Purchasing-Stocking services



Expert Audits

- WTG Component Condition Diagnosis
- End-of-Warranty audits
- Generator alignment analysis
- Electrical grid analysis

Mission

It consists on the application of engineering to the research, the design and the services provided in those technological areas where there is an exchange of energy originated by renewable sources, contributing thus to the transformation of the current energetic model and to the mankind's welfare.



Our people, our strength

Our team is made up of a range of proactive, highly qualified men and women. All qualified in their respective areas and receive an average of 40 hours of professional development per year, keeping up with changes and trends in their respective work areas.

Quality and Environment

Ingeteam's strategy aims at a continuous quality improvement of the service that we provide. While maintaining an environmental focus for our actions Ingeteam is committed to these strategies:

- Internal development based on the European Foundation for Quality Model (EFQM).
- Improving internal and external customers, suppliers and social environment satisfaction.
- The integration of Quality, Environmental Impact and Work Safety Management, conforming to ISO 9001, ISO 14001 and OHSAS 18001 standards.
- Reduction of CO2 emissions and dangerous waste disposals, in strict compliance with the RoHS standard.

Research, Development and Innovation, R&D+I

Development of in-house expertise is Ingeteam's core and most deep-rooted characteristic. Ingeteam has a long term strategy of investment in Operation and Maintenance (O&M) R&D+I. Some of the most important programs are:

- CENIT EOLIA program: R&D program to develop O&M strategies in deep-water offshore windfarms.
- PRINCET program: Castilla la Mancha University Program to develop Advanced Predictive and Preventive O&M programs.

Corporate social responsibility CSR

At Ingeteam we consider that our business activity has to promote the current energy model change and contribute to human well-being. In order for this philosophy to become reality we put into practice our CSR continuous diagnosis and management model comprised of the following:

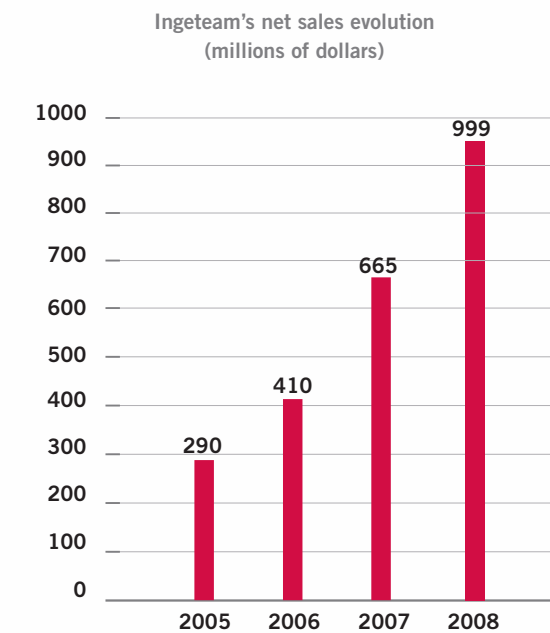
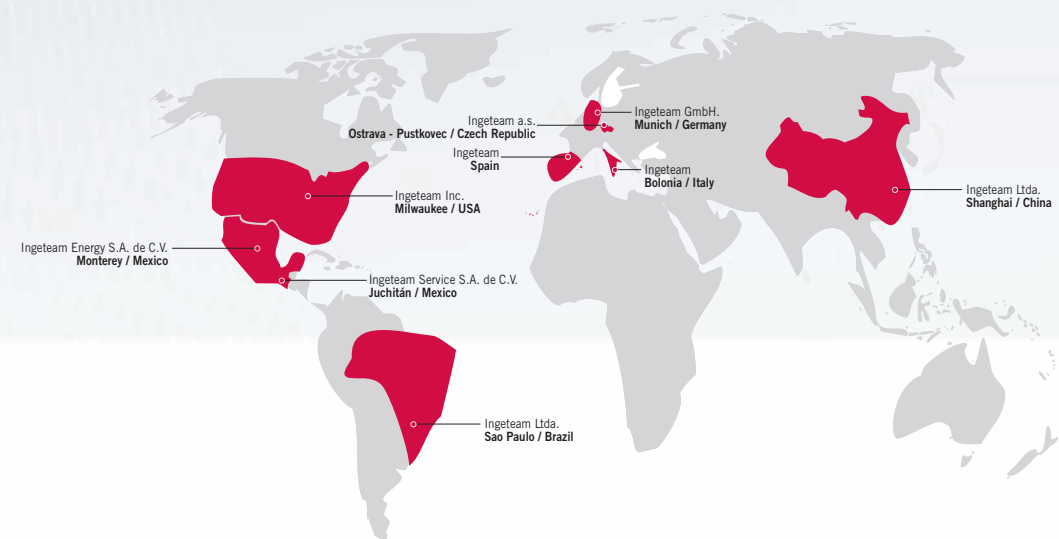
- Ethical leadership
- Health and Safety
- Employee Focused
- Adaptable to change
- Maintaining strong relationships with local communities

Customised solutions, adapted to suit the requirements of each particular customer or project.

Ingeteam Inc. is a company within Ingeteam Corporation, an industrial group with a renewable energy focus. Ingeteam Corporation is made up of six major groups, Energy, Industry, Marine, Traction, Basic Technologies, and Services. Ingeteam's core business is based on power and control electronics, generator, motor, and electric machine technology, and applications engineering.

Ingeteam has maintained a policy for sustainable growth which has helped it attain a leadership position in the electronics sector. Ingeteam has an outstanding track record with more than 60 years of experience in the electrical sector, more than 35 years in the electronics sector and more than 12 years in the wind energy sector.

The worldwide workforce is comprised of more than 3,000 professionals with one third of the workforce dedicated to product development and project engineering. This highly focused workforce is a key asset to Ingeteam.



Energy

Industry

Marine

Traction

Basic Technologies

Services

A Corporation structured into 6 divisions, each specialising in a different sector, all customer oriented.

Ingeteam