

PV Solar Energy



**All-inclusive PV
plant maintenance**

Ingeteam



We're flexible

▶ Ingeteam offers all-inclusive maintenance services for any type of PV plant.

All-inclusive maintenance, maximum efficiency



As well as designing and manufacturing the power and control electronics for PV plants and other renewable energy generation systems, since 1999, Ingeteam has also been concerned with offering the best possible maintenance service to ensure optimum plant performance and continuous operation.

The knowledge, experience and specialisation of the Ingeteam professional technicians are decisive factors in the maintenance of your PV plant, offering an all-inclusive maintenance service, for your peace of mind.

Tailored solutions

Maximum performance


The PV plant must achieve maximum performance, with as few interruptions as possible. Get the most from your PV plant through correct maintenance.

At Ingeteam, efficiency is a core value. Right from commissioning and start-up, and throughout the entire useful life of your plant, we can offer you an all-inclusive maintenance service that is the result of our experience, assurance and specialisation. Our secret is based on proactivity. A key factor that sets us apart from the rest.

Guaranteed optimisation

In the knowledge that it is essential to get the best performance out of the PV plant at the lowest operating cost, the maintenance service provided by Ingeteam allows you to adjust and lower your operating costs, for greater profitability.

Our strategy is based on an optimum all-inclusive maintenance policy, to ensure the continuous operation of your plant.



▶ Our all-inclusive maintenance guarantees maximum plant performance.

Spares always on hand

A smooth running supply chain and the continuous availability of all those parts required for your PV system, are both key aspects in our all-inclusive maintenance service. You can rest assured in the knowledge that we will handle all the logistics to ensure the rapid replacement of any equipment parts. We offer continuous status monitoring and information reporting so as to anticipate your needs.

Ingeteam can always guarantee the supply of parts, regardless of the system technology.

Risk-free financial returns

The solvency, technical capability and financial standing of a sector leader, such as Ingeteam, with its extensive track record and experience, represent a real guarantee when considering plant profitability. With its expertise in maintenance engineering, on-going investment in R&D&I and commitment to developing optimum programs that adequately cover the existing risk, Ingeteam is ideally positioned to work alongside its customers.

Optimum plant maintenance also signifies maintaining the business risk well under control.

True adaptability

The solutions provided by Ingeteam for any type of PV system, guarantee reliability and maximum efficiency.

Tell us what you want, and we will tailor our service to meet your requirements, right from the contract conclusion stage, to offer you the best possible service at all times.





▶ All-inclusive maintenance involves constant PV plant monitoring.

Operation



Proactive service excellence

Each plant is constantly monitored from our Control Centre.

We are committed to offering each and every customer a proactive service, constantly anticipating possible eventualities at the PV plant.

We compile data on your production, performance, maintenance etc, acting immediately to ensure the correct operation of your plant, whilst also providing plant status reports.

INCLUDED IN THE SERVICE

- ▶ SCADA Control Centre
- ▶ Plant Operation Control
- ▶ Monitoring reports

Maintenance



We'll take care of everything,
for your peace of mind

INCLUDED IN THE SERVICE

▶ Maintenance management

- Planning
- Safety Plans
- Asset Management
- Measurements

▶ Maintenance

- Predictive
- Preventive
- Corrective

▶ Technical Reports

- KPIs

This service is an absolute must for any plant. Ingeteam uses its expertise to develop maintenance protocols that are based on the most demanding standards, for guaranteed plant operation and extended useful life.

It is our goal to ensure that your PV plant has the capacity to produce with the maximum quality, safety and profitability. With this aim in mind, we count on a fully-prepared specialist structure to apply the fundamentals of maintenance engineering, so that you can have complete trust and confidence in the management of your PV plant.



▶ Ingeteam can provide an all-inclusive maintenance service for your PV plant, taking care of all the tasks and responsibilities.



▶ We tailor and optimise the spares structure to the needs of each specific plant. We can guarantee the supply of the necessary parts and components for the useful life of the plant.

Spares



Our supply is tailored
to suit your specific requirements

We adapt to the specific stock size requirements of each plant. With our own logistics centres, we are able to guarantee the supply and an immediate response time, with no need to invest in spares.

Thanks to agreements reached with leading manufacturers and distributors, we can guarantee the procurement of all brands of spares and components.

INCLUDED IN THE SERVICE

- ▶ Supply guarantee
- ▶ Warranty management
- ▶ Component repair
- ▶ Logistics and Stock Management

Production Guarantee



Limit the risk

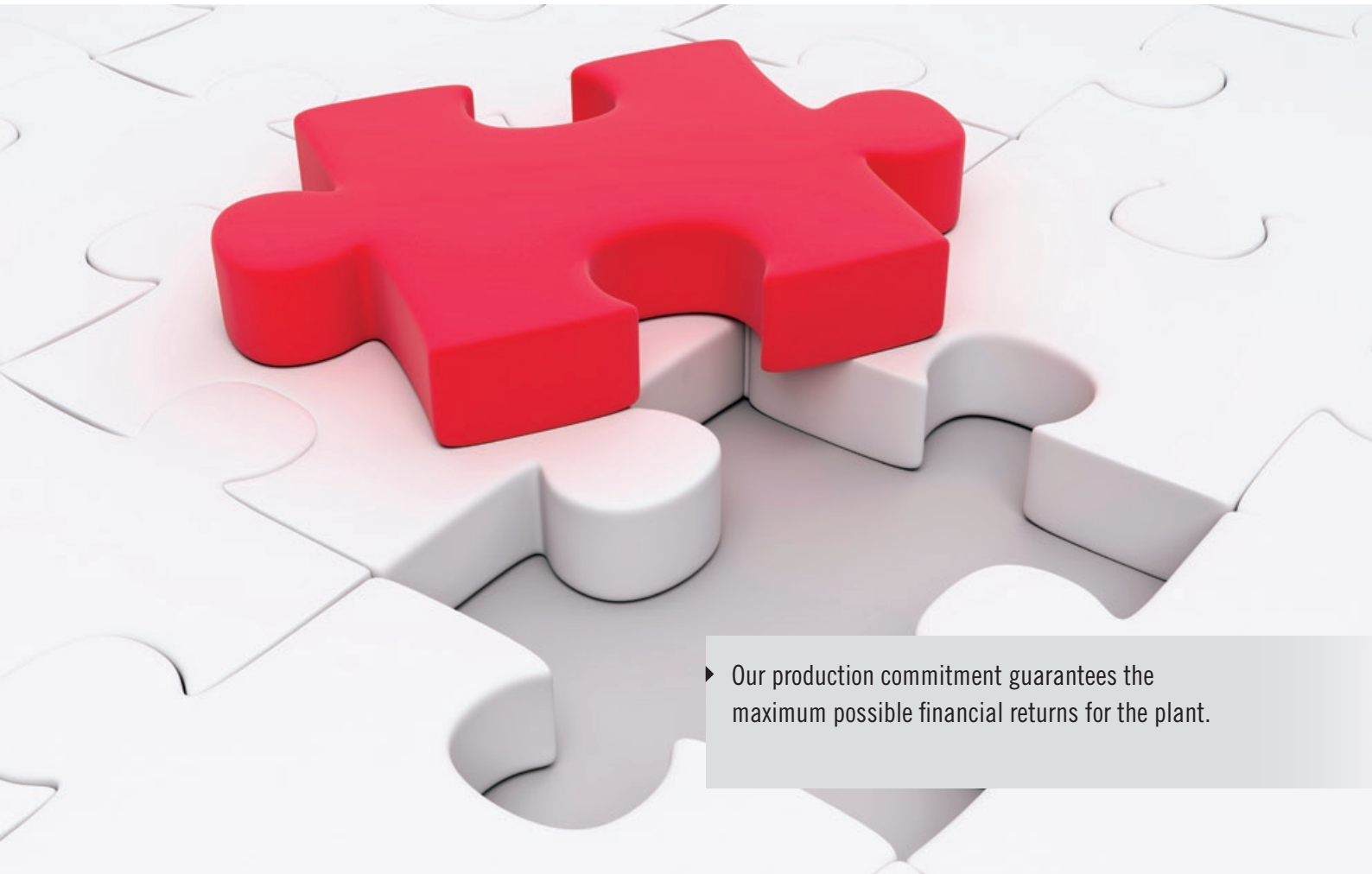
We have the necessary technical capability to achieve the production expected from your plant, and the financial standing to cover the production cost of possible deviations.

The operational availability of the components is guaranteed, and so is the Performance Ratio. Should the final result obtained be lower than that stated in the contract, then Ingeteam will provide financial compensation.

Our commitment is to guarantee a return on investment.

INCLUDED IN THE SERVICE

- ▶ Availability guarantee
- ▶ PR guarantee
- ▶ Financial compensation

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- ▶ Our production commitment guarantees the maximum possible financial returns for the plant.

Just ask us

Ingeteam will respond



What are the benefits of the Ingeteam all-inclusive maintenance service?

Any investment requires maximum returns, this can be guaranteed by optimising plant operation, offering a proactive service that anticipates any incidents, and risk-free financial returns.

Why do I need to take out an All-inclusive Maintenance policy?

Because this will extend the years of maximum production yet without affecting the useful life of your plant components, and, as such, all-inclusive maintenance is a key factor in any PV investment.

How is the correct operation of the plant guaranteed?

Through the proactive management of your plant operation, with optimised preventive and predictive maintenance and effective corrective maintenance with quick access to spares, a fast repair and warranty response time. All complemented with guaranteed production.

What type of PV plants can the Ingeteam All-inclusive Maintenance be applied to?

To all PV plants, of any manufacturing technology, wishing to guarantee a good return on investment.

Is it possible to make real savings with an All-inclusive Maintenance policy?

Definitely. You can make savings, guarantee production income and minimise losses through deviations. Right from day one, for example, you can avoid having to purchase and store a buffer stock of spares, so there is no loss of warranty and no fear of these spares becoming technologically obsolete.

If I already have a stock of spares, what benefits do I get?

Ingeteam will study your current stock and recommend the best option for adapting your spares to actual needs, directed at optimising your investment in fixed assets and reducing your costs. In addition, if you wish, Ingeteam can take charge of the spares replacement management.

How much would the All-inclusive Maintenance of my plant cost?

Always less than the losses and investments you avoid, with regard to the purchase of spares, to production losses, and to obtaining a less-than-optimum production level.

The cost of the service depends on each specific need, plant and situation.

Going a long way

Towards being as close as possible

Ingeteam offers an extensive network of customer support points, to provide a fast response, whenever and wherever we are needed.

In Spain

Andalucía
Aragón
Canarias
Castilla La Mancha
Castilla León
Extremadura
Galicia
Madrid
Navarra

In France

Toulouse

In Italy

Bolonia

In Germany

Munich

In the Czech Republic

Ostrava

Poland

Warsaw

Mexico

Oaxaca
Monterrey

USA

Milwaukee
Santa Clara

Brazil

Valinhos

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