

REFERENCE CASE PHOTOVOLTAIC



Independent inspection services for photovoltaic power plant projects in Germany

When Wattner AG required inspection services for its investments in photovoltaic (PV) power plant projects, independent, technical due diligence was essential in order to establish compliance with international regulations and proof of bankability. That's why they turned to TÜV Rheinland.

Basic facts	
Client	Wattner AG
Timeframe	February 2011 – ongoing
Project location	Germany
Main services	<ul style="list-style-type: none">▪ Technical due diligence including plant acceptance inspection with special emphasis on safety▪ Infrared pictures taken of on-site photovoltaic modules▪ Power measurements on-site
Involved regulations/standards	<ul style="list-style-type: none">▪ IEC 62446 - Grid connected photovoltaic systems▪ IEC 60364-1 - Low-voltage electrical installations▪ IEC 62548 - Installation and safety requirements for photovoltaic generators▪ IEC 61829 - Crystalline silicon photovoltaic array▪ IEC 61727 - Photovoltaic systems

Initial situation and requirements

Wattner AG is a German investment company, running several photovoltaic power plant funds. During the acquisition phase of some new investments, independent, technical due diligence was requested to ensure that all international standards and regulations were met. Additionally, proof of quality and therefore proof of bankability was also required to be stated.

Solutions, results

Due to our extensive experience in the photovoltaics sector and our profound knowledge of international standards, TÜV Rheinland was the preferred choice for Wattner AG.

With a total capacity of approx. 118 MWp, the PV power plants required a detailed portfolio of inspection services. We provided Wattner AG with a comprehensive approach, covering the client's full set of requirements: technical due diligence including power measurements on-site, infrared pictures of the PV generator and a full performance acceptance check, with the process culminating in a final acceptance inspection, performed on site.

Independent third party inspections are essential in power plants of this kind, where differing stakeholders such as banks and investors require quality assurance when it comes to their investment. For Wattner AG providing assurance was a priority, not least for their shareholders.

Did you know?

Wattner AG has been investing in solar power plants since 2004.



Benefits for the client

TÜV Rheinland helped Wattner AG with:

- Providing quality assurance according to national and international standards.
- Rigorous fault detection, ensuring quality, safety and performance.
- Impartial independent assessment ensuring that the plant can be viewed as a sound financial investment (Proof of Bankability).

Your contact:

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About TÜV Rheinland:

Founded 140 years ago, TÜV Rheinland is a global leader in independent inspection services, ensuring quality and safety for people, the environment, and technology in nearly all aspects of life.

We inspect technical equipment, products and services, oversee projects and help to shape processes for companies around the world. Since 2006 we have been a member of the United Nations Global Compact to promote sustainability and combat corruption.

Due to our extensive experience with solar power plants, we can help and support you in all project phases and ensure plant safety and reliability. We can also support you in achieving and maintaining profitability for large-scale PV systems and solar thermal power plants – from choosing the right site to full-scale operations.

We offer you a comprehensive range of services related to PV plants, including site assessment and inspection, supervision of construction, plant monitoring with yield check and yield evaluation, and unit inspections.