RENWORLD

It provides inspection and analysis services for renewable energy projects, especially solar energy systems, in accordance with the TS EN ISO IEC 17020 standard to ensure safety, efficiency, compliance with international standards, and regulatory requirements.

Our expertise in the energy sector includes manufacturing site inspections of photovoltaic (PV) modules in accordance with international standards such as IEC 61215, IEC 61730, and related standards. Additionally, we ensure the safe and efficient commissioning of all types of solar energy systems from installation to operational processes in compliance with IEC 62446 and relevant standards. Furthermore, we conduct performance analyses in accordance with IEC 61724 and IEC 60891 standards to ensure the efficient operation of these systems.

Nowadays, the efficiency and safety of renewable energy projects are critical to their success. RENWORLD was established with an experienced management and expert team to identify security vulnerabilities through risk analyses in the energy sector and ensure that these projects are operated efficiently and in compliance with international standards.

With innovative inspection techniques and our expert engineers, we minimize risks in the industry and contribute to sustainable energy solutions.

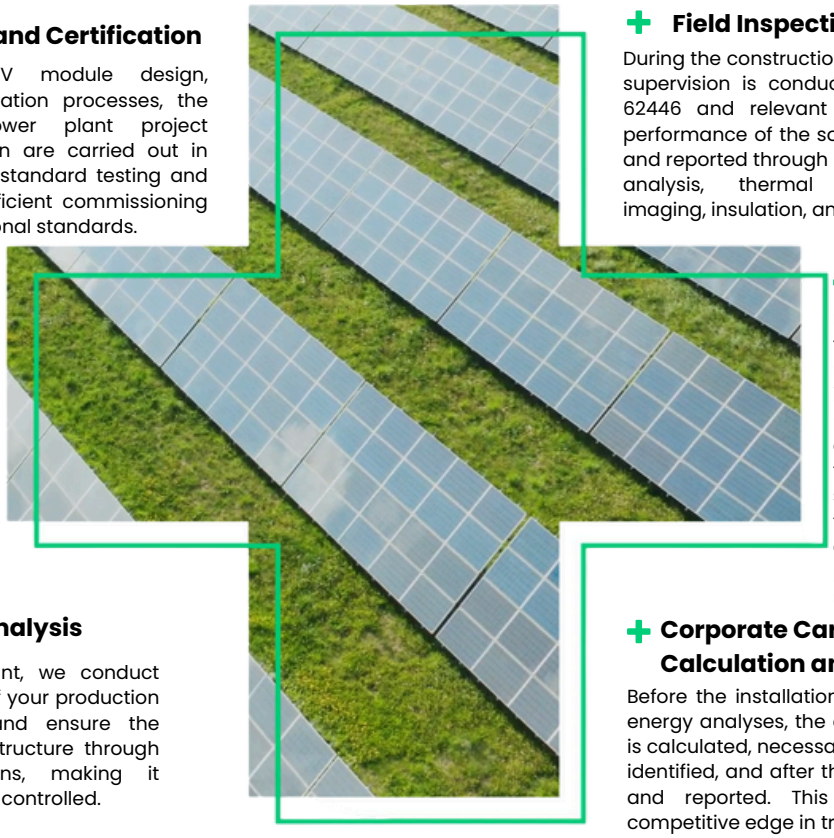
OUR EXPERTISES

+ Employer's Engineering

With its expert engineering team, Renworld provides supervision and inspection services, acting as a technical solution partner for its clients throughout the entire value chain of solar power plant installation, ensuring effective process management.

+ Project Inspection and Certification

The management of PV module design, manufacturing, and certification processes, the verification of solar power plant project calculations, and installation are carried out in compliance with IEC 62446 standard testing and documentation, ensuring efficient commissioning in accordance with international standards.



+ Field Inspection

During the construction phase of solar power plants, supervision is conducted in accordance with IEC 62446 and relevant standards. The safety and performance of the solar power plant are assessed and reported through inspections, including IV curve analysis, thermal and electroluminescence imaging, insulation, and grounding continuity tests.

+ Photovoltaic(PV) Module Manufacturing Site Inspaction

In PV module production, input and product quality controls are conducted under the supervision of our experts throughout the manufacturing process, or the compliance of stock products with technical specifications and standards is ensured by verifying their records before shipment.

+ Supply Chain Management

For each component to be supplied for the solar power plant (e.g., PV modules, BESS, inverters, infrastructure, etc.), the procurement process is managed in a traceable, efficient, and safe manner through the preparation of technical specifications, participation in technical meetings, and risk analyses, as well as monitoring the production process with progress reports.

+ Energy Efficiency Analysis

With your solar power plant, we conduct energy efficiency analyses of your production facilities in your sector and ensure the management of your infrastructure through maintenance and revisions, making it efficient, traceable, and cost-controlled.

+ Corporate Carbon Foorprint Calculation and Reporting

Before the installation of the solar power plant and energy analyses, the carbon footprint to be reduced is calculated, necessary carbon absorption areas are identified, and after the acquisition, it is recalculated and reported. This ensures that you gain a competitive edge in trade with low carbon emissions.

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WITNESS YOUR POWER!

RENWORLD

SOLAR POWER PLANT PROCESS MANAGEMENT

1. Project Site Evaluation
2. Financial (Capex - Opex) Analyses and Solar Power Plant Production Analyses
3. Preparation of Technical Specifications
4. Supplier Evaluation and Technical Risk Analysis
5. Design Review
6. Manufacturing Process Supervision (PV module, Transformer, Panel, Steel Structure, Cable, Battery)
7. Construction Phase Supervision
8. Commissioning Inspections
9. Annual Periodic Inspections