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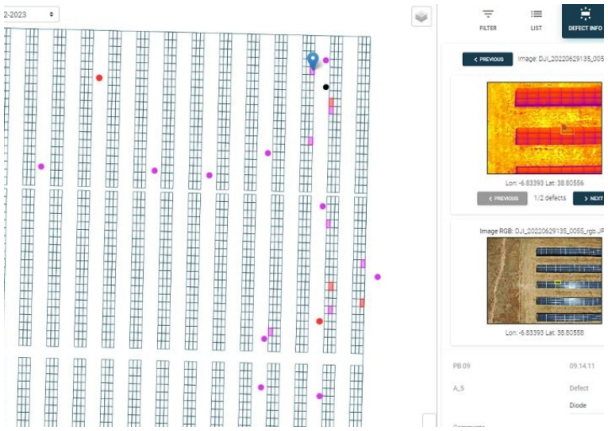
Solar Panel Thermography | Smart PV Inspection Tool

The Enertis Applus+ thermographic inspection system for solar plants allows PV plant owners to ensure proper maintenance of the equipment onsite, as well as identify and solve systemic issues that can reduce power output, thus negatively impacting potential project financing opportunities, as well as Power Purchase Agreements.

The Smart PV Inspection Tool has been developed to accelerate defect identification processes and increase accuracy by using a combination of infrared (IR) thermography on solar panels carried out with drones and Artificial Intelligence models.



THE Applus+ SOLUTION

Our solar panel thermography technology is responsible for processing, in a matter of minutes, the thousands of images of onsite equipment that are collected from drone thermal inspections on solar panels, searching for multiple types of defects that may cause underperformance of a solar PV asset.

Once detected, the defects are automatically classified depending on their criticality, and the tool is also able to geolocate the faulty PV modules within the plant. Thanks to the interactive map that is provided, Enertis Applus+ experts can analyze specific areas of the PV project at different levels of detail.

Our thermographic survey solutions enable viewing single PV asset reports of portfolio overviews, and it guarantees the delivery of the reporting final results in a couple of days, allowing for a quick response from the project owners.

Target customers

The Smart PV Inspection Tool is used to conduct solar panel thermography technical inspections on installed PV modules at operating solar PV assets.

Key customer benefits

- Increased efficiency and precision of the diagnostics of installed PV modules.
- High level of detail in the PV module analysis
- Possibility to view single asset reports or portfolio overviews
- Track the evolution of faulty modules in time as new inspections are performed in the same asset