

HOW MUCH ENERGY IS YOUR PLANT LOSING WITHOUT YOU KNOWING?

PROBLEM

SOLUTION

Your plant loses energy every day without you realizing it.

Thermal anomaly detection with **>99.5% accuracy**. Identifies hotspots, bypass diodes, PID, and physical damage in a single flight.

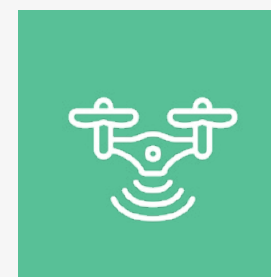
Inefficient cleaning cycles drive up O&M costs.

Cell-level soiling quantification across the entire plant. Optimize cleaning schedules and **reduce interventions by 30–40%**.

Manual inspections are slow, costly, and inconsistent.

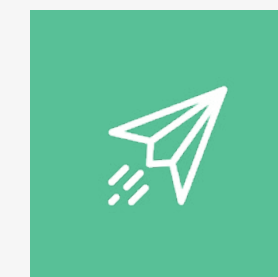
Up to 150 MWp/day. Results in approximately 48 hours. IEC 62446-3 compliant reports with full GPS traceability.

Request a demo



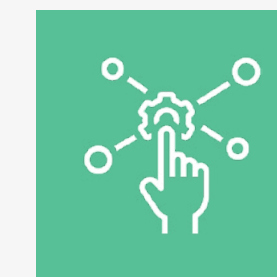
FLEXIBILITY

Fly and evaluate on the same day using your own drone



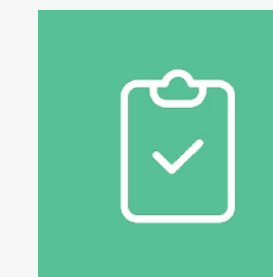
SPEED

Inspect up to 150 MW/day, results in approx. 48h



ACCURACY

Thermography and IEC 62446-3 classification



EFFICIENCY

Fully automated flight planning

Powerful Software for Solar Plant Inspection

Solarinspektor

Turns drone imagery into clear, actionable insights

Volafly

Fail-safe flight planning and execution software

Data Acquisition

In-house pilot

Volateq external pilot

Automated drone-in-a-box

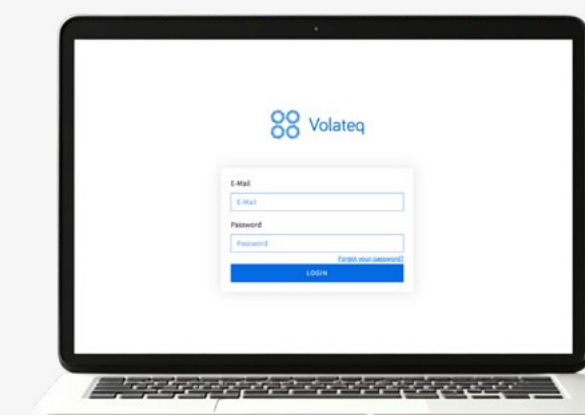
How it works

1 Plan & fly



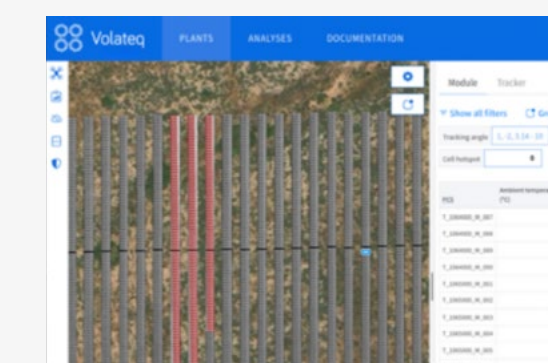
Simple, fully automated data acquisition

2 Upload & analyze



Fast data analysis in the Volateq cloud

3 Act on data



Performance report with clear optimization actions



Soiling Management

30-40%
fewer interventions

-95%
costs reduction

Optimize plant management with soiling detection

- Measure soiling losses at cell level across the entire plant.
- Pinpoint critical soiling hotspots, with no additional sensors needed.
- Optimization tools for technical and economic analysis.
- Fine-tune cleaning cycles and avoid unnecessary interventions.
- Verify the quality of your cleaning service.

PV Thermography

>99.5%
defect detection accuracy

Precise anomaly detection

- Detects thermal anomalies in survey mode at 40m altitude.
- IEC 62446-3 compliant flight capability.
- Automated infrared and RGB processing.
- Customized reports in an interactive web app.

Detected faults

Hotspots PID Bypass Soiling
Open circuit Shading Physical damage
Performance losses Severity class

Why Volateq?

- ✓ **Spin-off of the German Aerospace Center (DLR)**
Technology built on scientific rigor.
- ✓ **Plug-and-play solution.** Use your own commercial drone (~€6,500). No additional infrastructure needed.
- ✓ **AI with >99.5% defect detection accuracy.**
Automatic double verification.
- ✓ **Thermography + soiling in a single flight.**
Up to 150 MWp/day capacity.
- ✓ **Your data, always available.** API access, offline mode, web app, and IEC 62446-3 reports.

64+
clients

14+
countries

22+
GW analyzed

4 m€+
in cost savings

Your Data, Always Accessible

Offline mode
for field use

Comments,
photos, and
measurements

Interactive
reports in two
clicks

API integration
+ permanent
links

GPS mapping
for fault
localization

Web app for
mobile, tablet,
and desktop

Contact us

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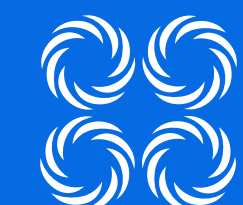
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Request a demo



Let's fly!



Volateq
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