

Solar Plant Detection and Monitoring

New site discovery and a clearer view of existing solar assets

XSensee screens territories for potential solar plants and supports the review of known sites, helping energy teams focus inventory checks and follow-up investigations.

Service example



1 m optical output for local context

Territorial discovery

Candidates for comparison with registries

Known site monitoring

Dated observations of visible site changes

Focused follow-up

A geographic shortlist for local checks

Solar discovery and asset review

Energy organisations need to identify potential new sites and keep a spatial record of visible changes at known installations.

Who uses the evidence

Energy agencies and authorities

Territorial solar inventories and planning

Utilities and asset owners

Review of known sites and surrounding land

Developers and consultants

Site screening and portfolio studies

Satellite analysis workflow

01

Area of interest

Territory and client question

02

Valid data

Suitable dates and source data

03

Service analysis

Application maps and estimates

04

Local review

Comparison with client records

Where are potential solar plants missing from your inventory, and which known sites need review?

What it supports

Territorial discovery

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1 m optical detail at lower cost

XSensee reconstructs Sentinel-2 imagery on a 1 m output grid, helping teams examine local context with a lower-cost optical baseline.

Sentinel-2 RGB input



XSensee super-resolution



1 m output

Reconstructed optical imagery for local review.

Proprietary 10× algorithm

More visual detail from Sentinel-2 imagery.

Lower-cost baseline

Optical context for territorial screening.

Measurement scale

Thermal, water and carbon retain their source scale.

Same reference scene. The 1 m output is a reconstruction of optical imagery.

Solar site screening outputs

Satellite analysis provides candidate evidence that teams can compare with asset registries and review on the ground.

Candidate locations

Screen the selected territory for potential solar plant footprints.

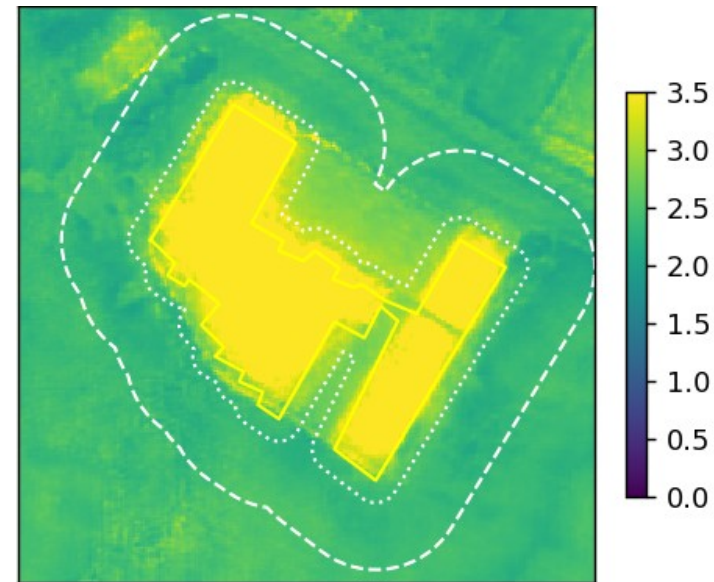
Site evidence

Review optical context and service indicators around candidate or known sites.

Dated site comparisons

Assess visible differences when comparable observations are available.

Solar screening indicator around a known site

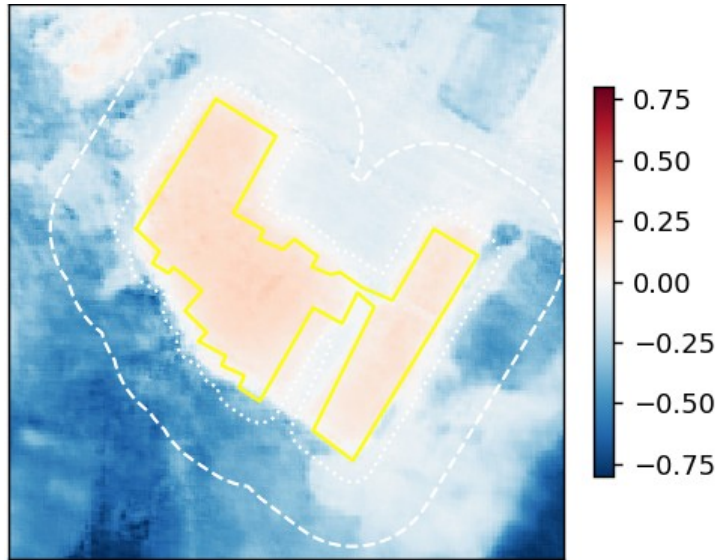


Local checks confirm asset identity and status. Satellite screening does not establish generation, installed capacity or structural condition.

Applications and local follow-up

The same service evidence supports different client decisions. Local records and field assessments complete the investigation.

Complementary solar site indicator



Discovery and mapping

Compare candidate locations with your registry and shortlist sites for confirmation.

Monitoring existing plants

Review dated observations for visible footprint or land use changes around registered assets.

Local checks confirm asset identity and status. Satellite screening does not establish generation, installed capacity or structural condition.

A pilot on your territory

The pilot starts with a defined client question. Its scope reflects the territory, available data and the decision your team needs to make.

Pilot scope

Territory and asset list

Select a screening area and provide known site locations if available.

Evidence and inputs

Discovery and monitoring

Agree candidate review criteria and the observation period for existing plants.

Deliverables and review

Candidates and site evidence

Review mapped results with the asset team and decide which sites need confirmation.

A shared review of the evidence defines the next local checks and the scope of any further work.

A pilot for your next territorial decision

Tell us the area you need to assess and the decision the evidence should support.

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[Explore XSensee](#)



[Watch the solar demo](#)

Explore the platform and watch the demonstration.