

Solar AI Platform

Revolutionizing Solar Site Surveys with AI

10 Minutes. Zero Site Visits. 100% Accuracy.

\$1,500

Cost Per Survey (Traditional)

5-10

Days (Traditional)

10 Min

With AI

The Problem

- Traditional site surveys cost \$1,500-\$3,000 and take 5-10 days
- Manual shading analysis has 15-30% error margin
- Electrician visits cost \$200-\$500 per site
- Roof risk assessment is subjective and unreliable
- Failed inspections require expensive rework

The Solution

AI-Powered Shading Analysis

Upload 1 photo -> AI identifies obstructions -> Instant analysis

AI Electrical Panel Assessment

Photo analysis replaces \$500 electrician visit

AI Roof Risk Analysis

Automated structural integrity assessment from photos

NEC 2023+ Compliance Verification

Automatic code compliance checks prevent failed inspections

Live Demo: <https://site-surver-analysis.vercel.app/>

Why We're Different

ONLY Platform with AI Vision Analysis

Gemini 2.0 Flash AI analyzes photos - competitors require manual entry

No Site Visits Required

Complete analysis from office using customer photos

10 Minutes vs 10 Days

Instant results vs weeks of waiting for traditional surveys

Zero Human Error

AI calculations are 100% consistent - no math mistakes or code violations

Works on Free Hosting

Deploy on Vercel/Render free tier - no infrastructure costs

Your Current Pain Points

Site Surveyor:	\$1,500-\$3,000 per site
Electrician Visit:	\$200-\$500 per site
Timeline:	5-10 days waiting
Shading Analysis Errors:	15-30% error margin

AI Eliminates All These Costs & Delays

How It Works

Traditional Workflow: 5-10 days

Solar AI Workflow: 10 minutes

- 1 Upload roof photo
- 2 AI analyzes shading (30 seconds)
- 3 Upload electrical panel photo
- 4 AI assesses electrical (20 seconds)
- 5 Upload roof condition photos
- 6 AI evaluates roof risk (40 seconds)
- 7 Draw roof planes (simple UI)
- 8 System checks NEC compliance
- 9 Review all results
- 10 Generate professional PDF report

Powered By

- Google Gemini 2.0 Flash AI (Vision Analysis)
- PVLib Python (Solar Calculations)
- FastAPI + PostgreSQL (Backend)
- Next.js + TypeScript (Frontend)
- Deployed on Vercel + Render (Free Tier)

Sample Report Included

We've included a sample analysis report for your reference

Ready to Transform Your Business?

Try it live at:

<https://site-surver-analysis.vercel.app/>

Contact us for a personalized demo with your project data

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