

# 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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