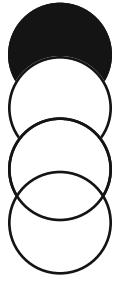


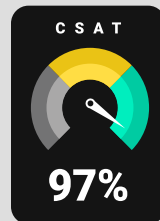
GIS site-selection, design & yield

software suite



PR — GM — RM — YLD

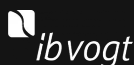
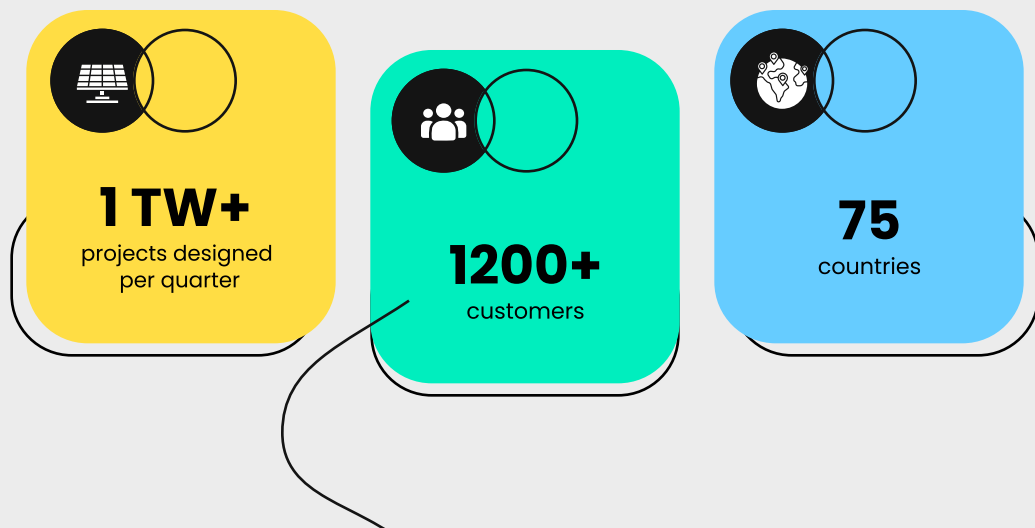
Better with PVcase



About

PVcase creates advanced software to break logjams in the engineering and construction of renewable energy projects, making them less labor-intensive, time-consuming, and complicated. With our technology, developers complete projects faster, more efficiently, and more precisely – accelerating the global transition to clean energy.

PVcase tackles the problem of “data risk” from the degradation of data over the course of a project while also enhancing productivity and efficiency in design. Discrepancies in data from dozens of sources can hamstring a project and cause it to underperform its expected energy output. PVcase puts an end to clunky processes and corrupted data and clears our path to a net-zero economy.



Integrated Product Suite

Seamless workflow throughout your solar project

01 Accelerate project timelines

Achieve up to 8x faster project scenarios, reduce data risk, and expedite decision-making with the integrated suite.

02 Improve project effectiveness

Eliminate redundancies and ensure precise project engineering by centralizing data and automating workflows.

03 Optimize the process

Effortlessly move from site selection to production estimation, enhancing every stage of solar project development.

04 Minimize costs and mitigate risks

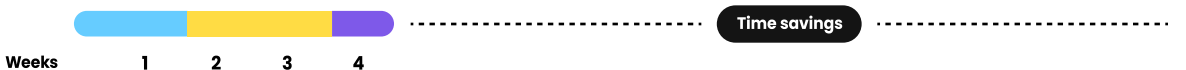
Prevent costly mistakes, delays, and human errors with PVcase's precise and reliable integrated tools.



Project phases (old way)



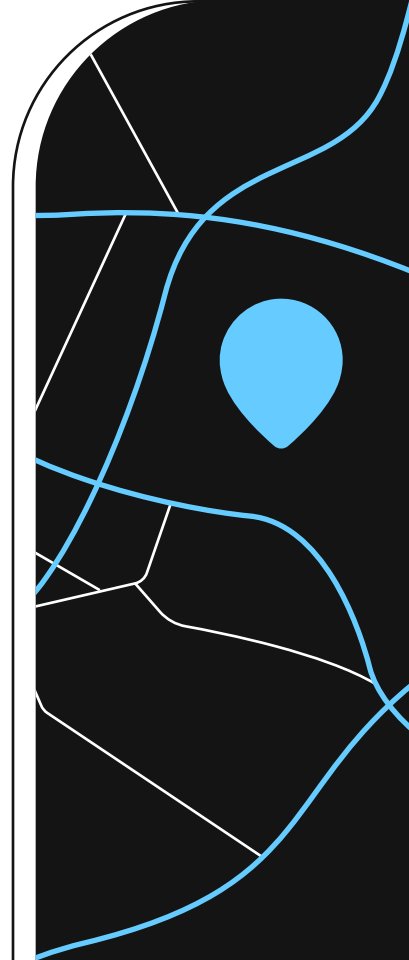
Project phases (PVcase way)



Prospect

Revolutionary renewable energy site selection and GIS platform

PVcase Prospect (formerly Anderson Optimization by PVcase) is a revolutionary Renewable Energy Site Selection and GIS Platform designed to streamline and automate the process of finding and analyzing optimal sites at scale.



01 Seamless decision-making

Enables data-driven decision-making with detailed analysis and visualization of potential sites and grid impacts, ensuring project viability, compliance, and optimization.

02 Enhanced efficiency

Accelerates market entry and site evaluation accuracy, allowing developers to identify and pursue high-quality projects rapidly.

03 Cost savings

Reduces soft costs by eliminating the need for external GIS analysts or costly land agents, empowering teams to own the site selection process end-to-end.

04 Pipeline management

Maintains a steady flow of active projects with a repeatable and efficient site selection workflow.

05 Integration with PVcase Ground Mount

Allows users to transition seamlessly from site selection and analysis to detailed design and optimization within a single platform.

06 Wide selection of premium data add-ons

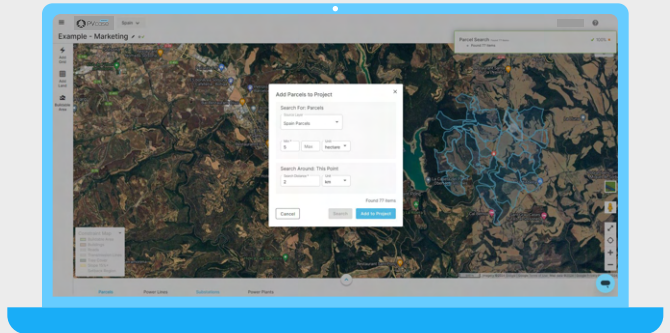
Capacity Data Add-On, Distribution Grid Data Add-On, Premium Flood Data Add-On, Phone Number Look Up, Premium Grid Data.

Highlight features



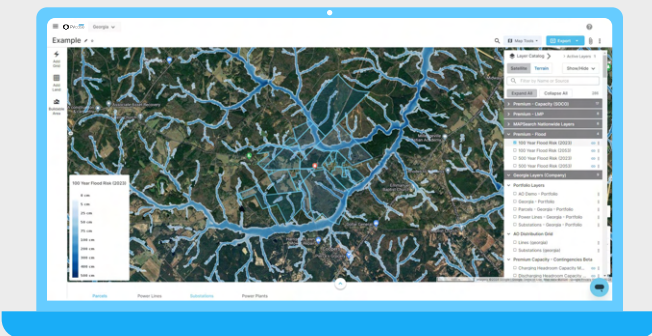
Automatic Parcel Search

Simplifies land search based on known substations and power lines, speeding up the site selection process.



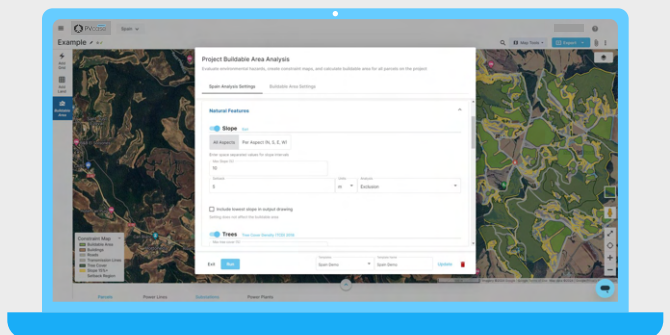
Integrated Data Layers

Offers premium layers and proprietary data integration for comprehensive site analysis and visualization.



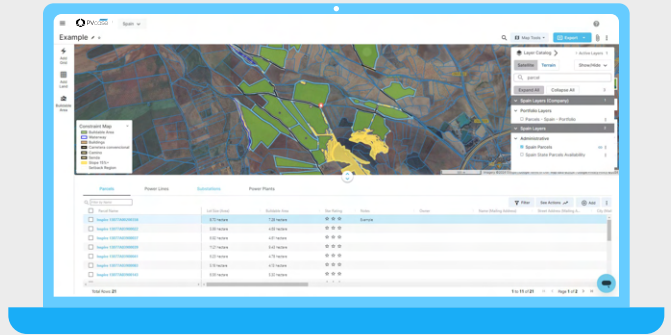
Constraint Analysis Automation

Automates constraint mapping and buildable acreage calculations to streamline parcel evaluation.



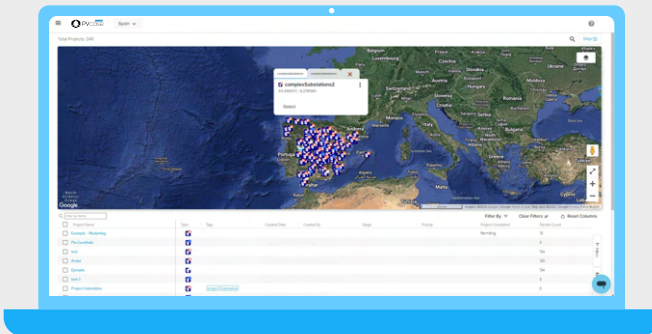
User-Friendly Environment

Provides an intuitive GIS platform accessible to all users, regardless of GIS expertise.



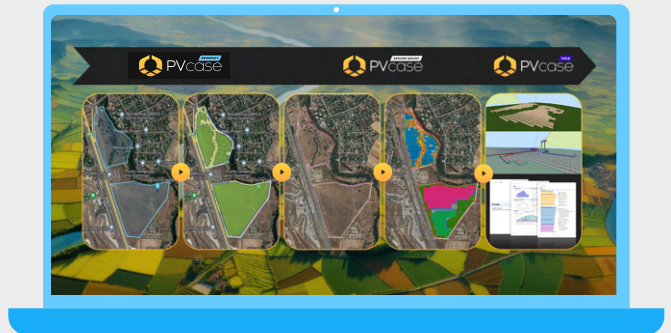
Collaboration Tools

Facilitates efficient team communication and project management with instant updates and export capabilities.



Seamless Integration

Integrates seamlessly with other industry-standard tools, like PVcase Ground Mount and PVcase Yield, enabling comprehensive project analysis and continuation of work across project phases.

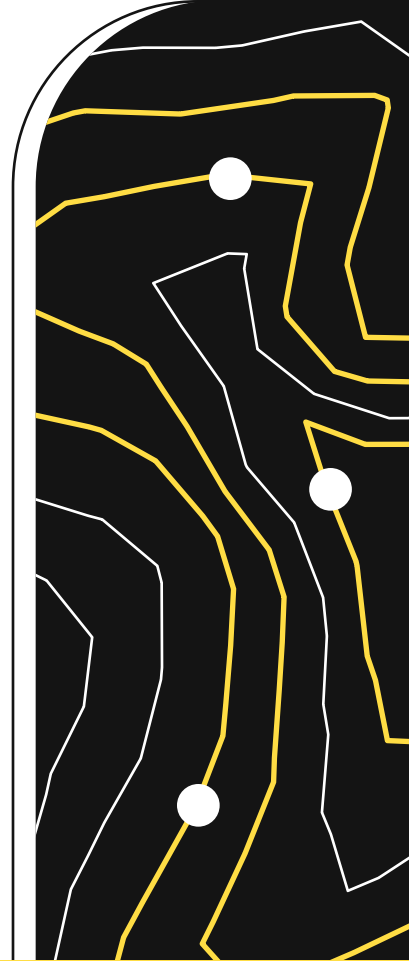


The database is comprehensive and with a simple-to-use interface for **setting up initial projects from a transmission line asset or land asset.**

Ground Mount

Planning and optimization of utility-scale ground-mounted solar power plants

By leveraging advanced automation and intuitive design tools, **PVcase Ground Mount** drastically reduces time and effort to evaluate and design solar parks. It accelerates the solar engineering workflow, allowing engineers to efficiently generate and optimize 3D layouts and electrical designs for terrains of any complexity.



01

Saving time

Minimizes repetitive tasks, allowing engineers to focus on optimizing configurations.

02

Flexible adjustments that enhance design iterations

Facilitates quick adjustments to achieve optimal layouts.

03

Simplifying complex decisions

Assists inexperienced users with complex design decisions.

04

Ensuring accuracy

Automates error-prone tasks to eliminate input errors and address design risks.

05

Enabling collaboration

Improves collaboration by securely sharing designs with stakeholders, leveraging a familiar design environment and file format for seamless interoperability across all project phases.

06

Customer support

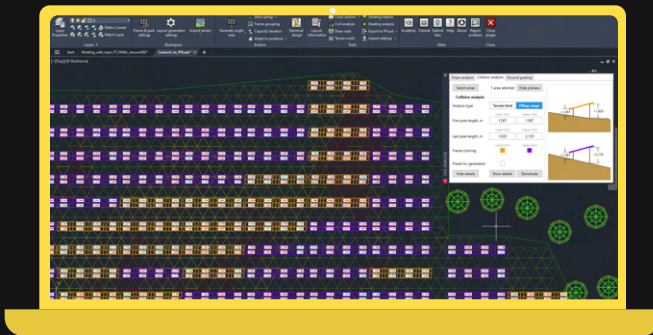
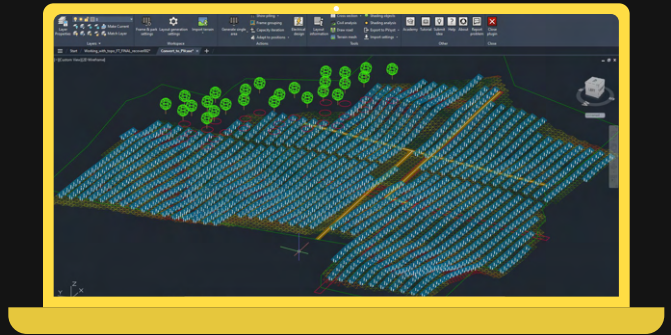
Multilingual support, extended availability, expert assistance, flexible communication channels, fast response time, and additional resources.

Highlight features



Terrain-based PV Layout Generation

Automatically generates PV layouts tailored to specific terrains.

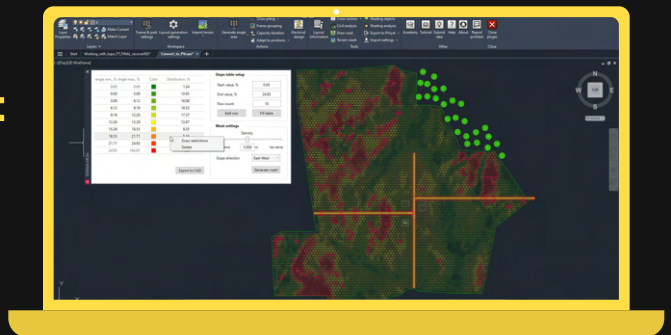


Piling and Collision Analysis

Identifies potential obstacles to help optimize and export piling data.

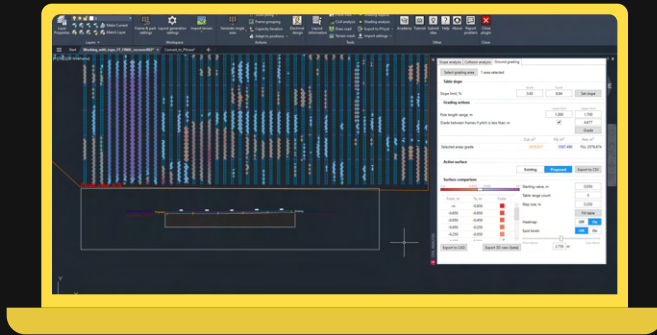
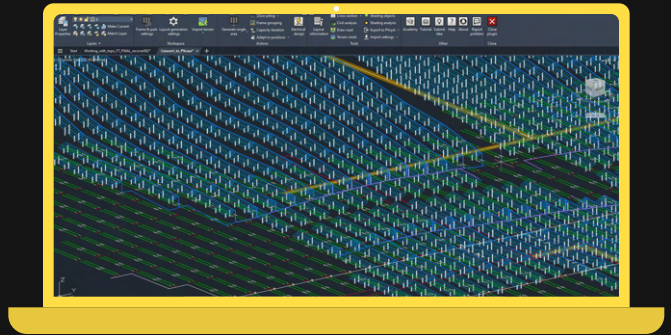
Restriction Assessment

Imports and utilizes various data to realistically evaluate the terrain restrictions.



Electrical Device Placement and 3D Cabling

Enables precise placement of electrical components and comprehensive cabling visualization.



Ground Grading and Terrain-Following Generation

Ensures optimal placement of frames to minimize the need for extensive ground grading.

Seamless Integration

Integrates seamlessly with other industry-standard tools like PVcase Prospect and PVcase Yield, enabling comprehensive project analysis and continuation of work across project phases.



If we have to do a 600-megawatt layout, we **used to take one complete week, but now with PVcase Ground Mount we can do it in half a day.**

Roof Mount

**Automation, a high level of precision,
and intelligent algorithms.**

PVcase Roof Mount is a cutting-edge design software tailored for rooftop solar implementation, empowering engineers to optimize layouts and streamline the solar design process.

01 Automating manual work

Significantly reduces manual tasks, saving time and minimizing errors.

02 Enhancing design precision

Offers precise layout and string mapping for optimal production.

03 Streamlining workflow

Centralizes solar design processes under one intuitive CAD software.

04 Accelerating project turnover

Facilitates faster layout enhancements and design revisions, speeding up project completion.

05 Improving cost efficiency

Optimizes material usage and reduces wastage, leading to cost savings.

06 All-in-one design tool

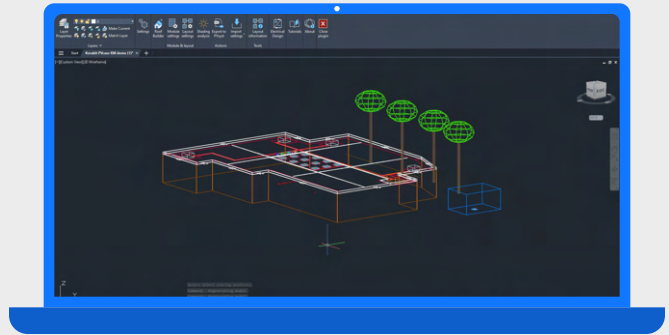
Offers a comprehensive solution within a familiar AutoCAD environment, simplifying workflows and boosting productivity.

Highlight features



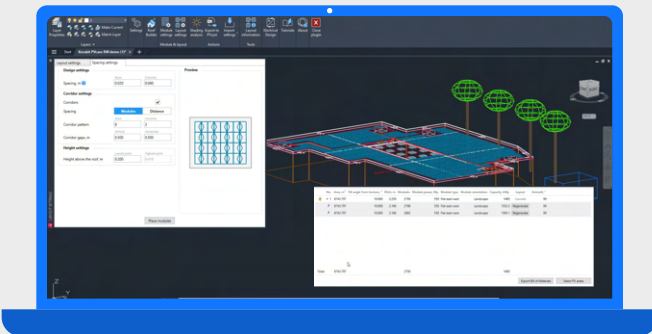
Roof Preparation

Prepares roofs for solar panel installation, considering structural and environmental factors.



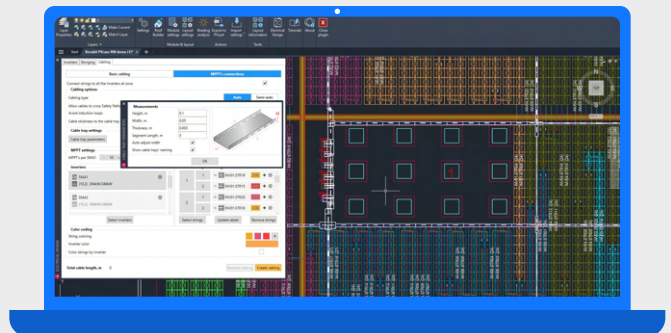
Layout Generation & Comparison

Automatically generates multiple solar panel layouts based on configurations: panel types, orientations, and tilting angles. Enables rapid iterations to identify design for maximizing energy production.



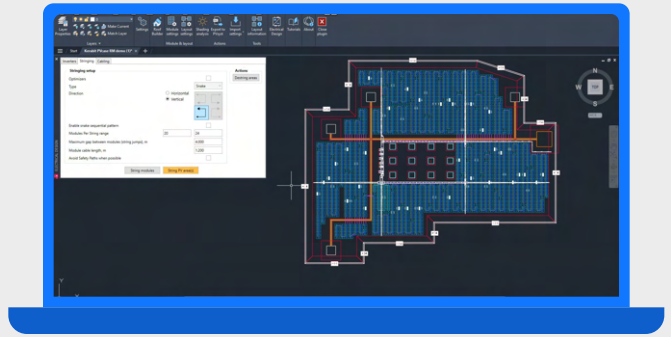
Cable Tray Automation

Automates cable tray design and placement, enhancing overall system efficiency.



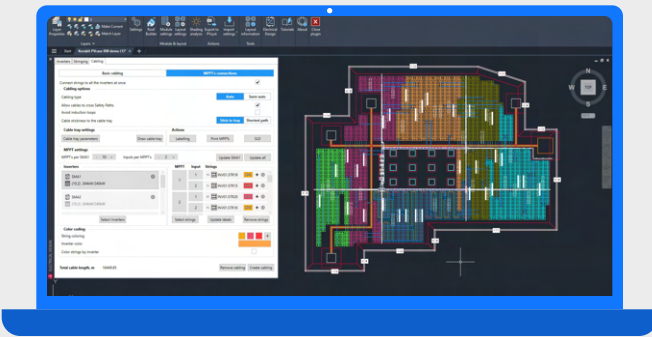
Stringing Automation

Allows to create string layout automatically, based on customer defined criteria and parameters. Automates the process of labelling modules and strings.



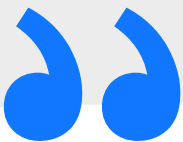
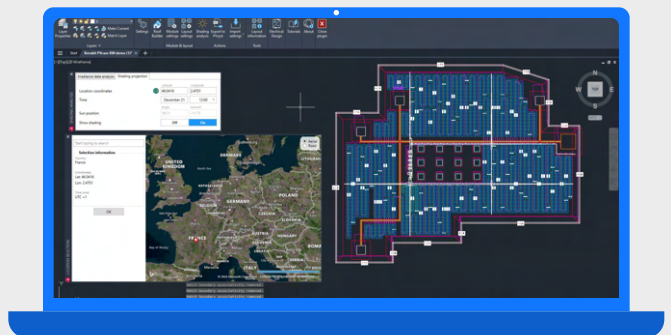
Cabling Automation

Streamlines electrical design by automating cabling processes, ensuring precision and reducing errors.



Shading Analysis

Evaluates shading and sun exposure throughout the year, optimizing layout to maximize energy efficiency.

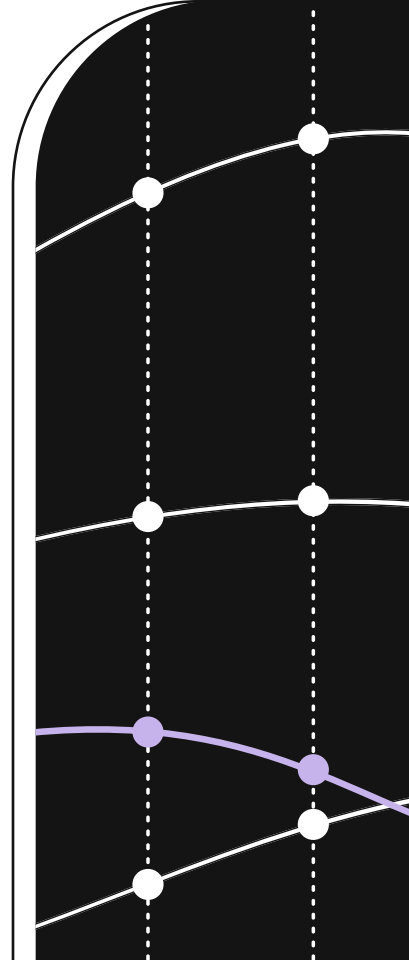


Designing a project used to take 2 to 3 days to implement, whereas now, **with PVcase Roof Mount, it can be done in 2 to 3 hours.**

Yield

Cloud-based energy modeling software for solar PV systems

PVcase Yield is a cloud-based energy modeling software designed to empower solar engineers and developers in estimating the performance of photovoltaic (PV) power plants with unmatched precision and efficiency.



01 Efficient design optimization

Enables engineers to optimize PV system configurations swiftly, leading to improved project feasibility and success.

02 Increased accuracy

Provides precise energy production estimations, crucial for project funding and investor confidence.

03 Streamlined project evaluation

Empowers companies to assess project performance realistically, avoiding over-promises and optimizing profitability.

04 User-friendly interface

Convenient and clear web-based interface that enhances usability and workflow, simplifying operations.

05 Automated calculations + calculations in parallel

Leverage cloud computing for simultaneous calculations, reducing manual workload and boosting productivity.

06 Enhanced terrain integration

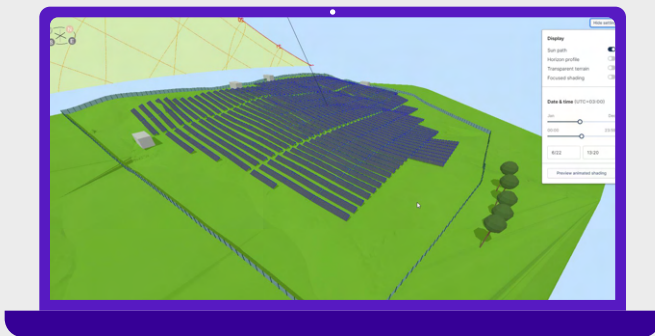
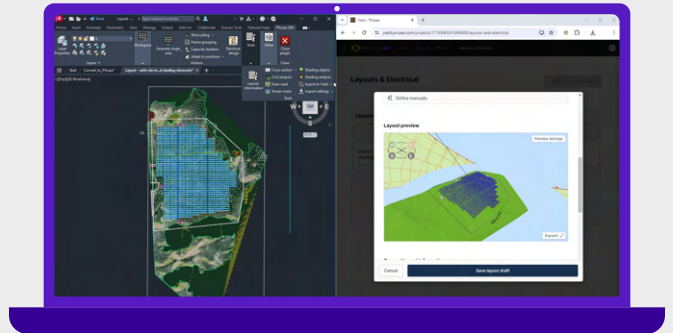
Use advanced simulation methodologies from Imec for precise incorporation and utilization of terrain complexities within simulations.

Highlight features



Compatibility with PVcase Ground Mount

Seamlessly integrates with 3D design elements from PVcase Ground Mount for comprehensive project optimization.

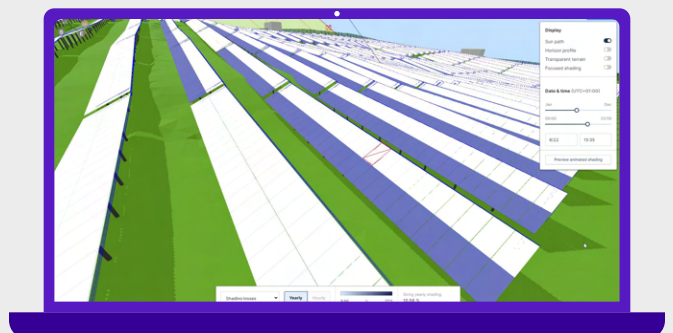


Advanced Simulation Methods

Utilizes ray tracing optical simulation combined with physics-based thermal-electrical methodology for accurate performance estimations.

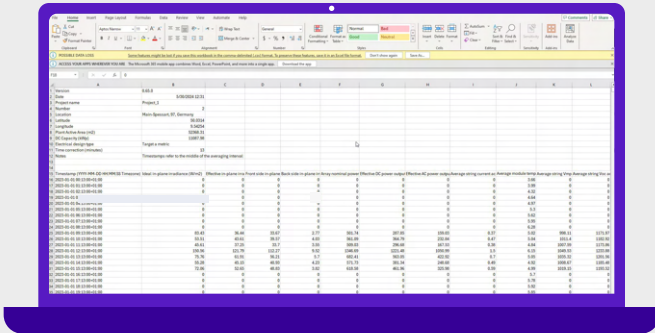
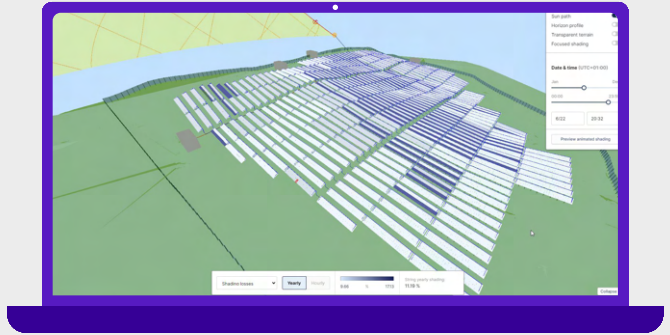
Module-Level Resolution

Provides thermal-electrical modeling at a module-level resolution, ensuring detailed and precise analysis.



Physics-Based Loss Computation

Computes losses using advanced physical models, enhancing the accuracy of energy production predictions.

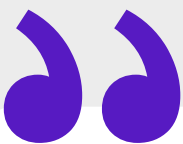
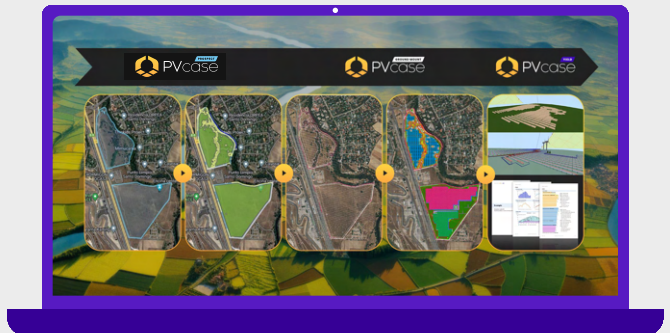


Hourly Simulations

Conducts hourly simulations to analyze performance throughout the year, allowing comprehensive system evaluation.

Seamless Integration

Integrates seamlessly with other industry-standard tools like PVcase Prospect and PVcase Ground Mount, enabling comprehensive project analysis and continuation of work across project phases.



The fact that **PVcase Yield is directly connected to PVcase Ground Mount** is very easy to check the yield impact of individual designs.





P V C A S E . C O M

GIS site-selection, design & yield

software suite

