Case study

How to Increase PPA Competitiveness by 4.36%

terrasmart™

The Challenge

A solar project located in Southern California had an interconnection limit (LGIA) of 105MW and had to be optimized for the lowest power purchase agreement (PPA). Two product combinations were evaluated, CdTe and cSi panels, both on single axis trackers with 3.0MWac inverters.

Assumptions and rules of thumb vary, but a common approach is to design with a nameplate capacity slightly higher than the interconnection limit.

The Solution

There is hidden value in every project. To remove guesswork and find the best configuration for this project, the client used SIFT (Solar Instant Feasibility Tool) to evaluate all potential site options. SIFT intelligently iterates through thousands of configurations and billions of calculations until the maximum result is determined.

The Result

With SIFT, the client was able to confidently decide on an optimal design for the project—**increasing PPA competitiveness by 4.36% and reducing installation costs by $21 million.**

ID	Products	MWac	MWp	DC:AC	GCR	Yield	PPA ($/kWh)
A1	**Combo 1: cdTe SAT**	96	126.28	1.315	0.39	2514	.043564
A2	**Combo 2: cSi SAT**	96	132.97	1.385	0.40	2431	.044965