

SPADE: Agrivoltaic Design Software: "Know Before You Grow"

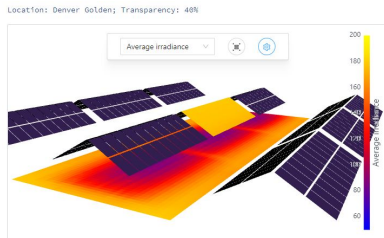
A simulation tool to provide developers, farmers, and researchers the data they need for a successful project.



U.S. DEPARTMENT OF ENERGY

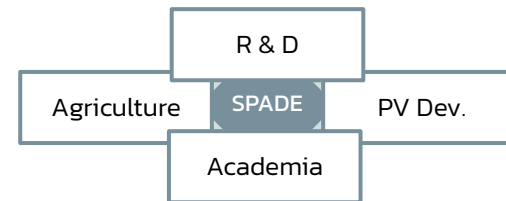
Input Variables > A.I. & Statistical Algorithms > Output Data

Configuration
Climate / Location



- Photon Flux Density (PPFD)
- Suggested Crops
- Solar Production: kWh
- Techno-Economic analysis
- Dual Optimum Explorer

10GW by 2030 / \$10 Billion Industry
Over 550 Rural Jobs Created



"Set!" Competition MVP COMPLETE	"Go!" Competition	SPADE beta	"Go!" Funding + Beyond	
WEBSITE HOME ▶ Agrivoltaic Intro ▶ Web App Access	▶ Agrivoltaic 3D Interface ▶ Agrivoltaic Education ▶ Web App Access		▶ Agrivoltaic 3D Interface + Education ▶ Web App Access	
AV MODELING + IOT ▶ Cloud-Based Web Application with Parametric Design Inputs ▶ Irradiance Output ▶ Real-time data visualized online	MODEL VALIDATION ▶ NREL Partnership Established ▶ Crop-based parameters (PPFD) ▶ NREL SAM INTEGRATION ▶ Dual Optimum Design Explorer Interface to meet industry demand	BUSINESS DEVELOPMENT ▶ SPADE Brand Creation ▶ Consulting Contracts (\$76k) ▶ Projects Sold (\$200k) ▶ State of Colorado OEDIT Grant for Design Explorer Development	90-180 Days ▶ Customer Demo at RE+ ▶ AMC Funds to hire UI/UX Developers, Digital Marketing ▶ Collaborate with NREL to expand SAM integration + crop financial model	365+ Days ▶ SaaS Full Launch ▶ Raise \$5 million ▶ Sell Corporate Contracts



Ladybug
Tools



AgriSolar
Consulting



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