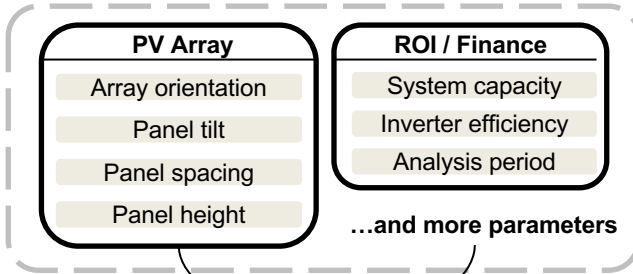


Parallel Works: Accelerating Solar PV Engineering

Solar Photovoltaic Annual ROI Design Explorer

Parallel Works is a computing platform that allows engineers to **build, deploy and run** automated workflows. We can **couple industry recognized software** for annual solar radiation prediction and financial ROI analysis. **Predict and optimize** a plant's IRR, system capacity and solar yield (among other things), and **share these workflows** across your organization to **accelerate your design engineering process**.

Solar Array Inputs and Parameters



Swift Parallel Script Wrapper



Execution on Diverse Computing Resources



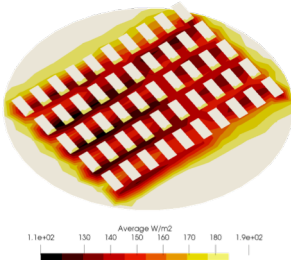
Array 1 Analysis

1. Array Geometry
2. Annual Radiation
3. NREL SAM ROI

Array N Analysis

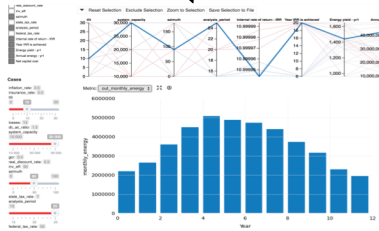
1. Array Geometry
2. Annual Radiation
3. NREL SAM ROI

Web-Based Result Visualization



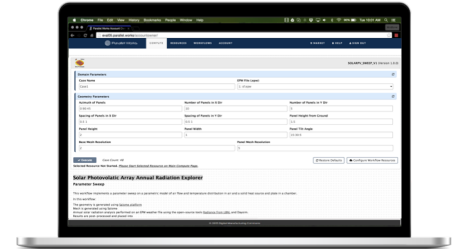
Radiance

Weather-Dependent Annual Solar Radiation Profile



Optimized ROI, NPV, payback period, etc.

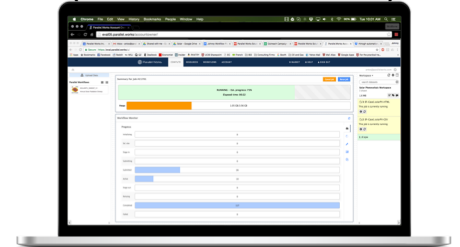
Web-Based Input



Specify inputs, parameters and variables



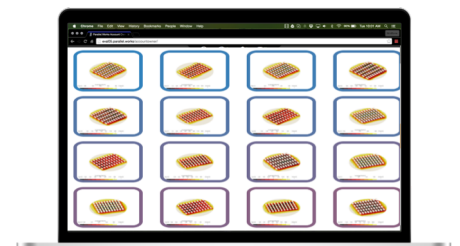
Solar Simulation Engine (Radiance / NREL SAM)



Track workflow progress and view intermediate results



PV Array Configuration Results



Rapidly analyze and visualize 1000x simulation results