



Solar System Performance Software

2solar

COMPANY DESCRIPTION

2Solar is a product of the Dutch software company **Seed2Lead**. It is developed for, and in cooperation with, solar installers, wholesalers and manufacturers. Therefore, the software solution is extremely popular in the solar energy industry.

OVERVIEW



DevCom has developed a **unique energy management software solution** that calculates shadows and panel exposure to the sun in order to get precise performance predictions. For development purposes, software engineers at DevCom have been heavily relying on **Data Science methodologies**. The methodologies include physical and mathematical calculations that use position, absolute time, and a 3D model of surface.

Moreover, a user can **customize the Solar System Performance Software** solution adding objects that produce shade, such as trees, chimneys or adjacent buildings. The software then creates an animation of a 24-hour cycle with the visible shadow effect. The system calculates performance so that **a user knows what are the most ideal panels and inverters for a situation**.

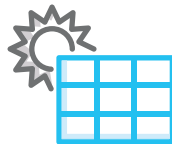


Finally, the 3D model has been designed using **Google maps API** making the solution responsive and swift. The user or the system can enter coordinates into Google Street View and get information about the most effective solar panel exposure in under 500 milliseconds. Not to mention that **the Solar System Performance Software is able to serve up to 1000 calculations per day.**

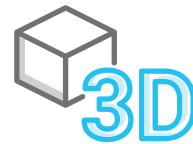
FEATURES



Shadow Calculation
Algorithm



Panel Object
Exposure



3D Surface Model
Visualization



Google Maps
Integration



Solar System
Performance Report



High Data Processing
Performance

TOOLS AND TECHNOLOGIES

