

# Polysun Feature List:

## Photovoltaic



### System Diagram Templates (download free demo for more info)

	Light	Prof	Designer
1 PV field	✓	✓	✓
2-3 PV fields with different orientations	✗	✓	✓
Tracked PV fields	✗	✓	✓

### Climatic Data

	Light	Prof	Designer
Select any location with Open Street Map	✗	✓	✓
8055 meteorological stations worldwide. Find more info about the climatic data on our partner's website. <a href="http://www.meteonorm.com/pages/en/meteonorm-6-online/stations-mn-6.1.php">http://www.meteonorm.com/pages/en/meteonorm-6-online/stations-mn-6.1.php</a>	✓	✓	✓
Import climatic data from different sources	✗	✗	✓

### Horizon

	Light	Prof	Designer
Design a Horizon Profile on map or enter values on table	✓	✓	✓
Import Horizon Profile from other tools (Suneye, Spyce, Precegio)	✗	✓	✓
Load Horizon Profile online from Meteotest	✗	✓	✓

### Project Load / Save

	Light	Prof	Designer
Save and load your own projects, or load projects that have been saved by another Polysun Photovoltaic Simulation Light user.	✓	✓	✓
Load projects that have been saved by another Polysun Photovoltaic Simulation Light, or Professional user.	✗	✓	✓
Load Photography of site	✗	✓	✓
Print PDF file of project overview	✓	✓	✓

### Results

	Light	Prof	Designer
Result Overview: Bar graphs containing 5-7 most important results.	✓	✓	✓
System Results: Analysis of electric circuits. (Monthly evaluation in form of tables and bar graphs)	✓	✓	✓
Financial Analysis: Amortisation time, annual fuel cost savings, purchase cost after grants, etc.	✗	✓	✓
Component Results: Comprehensive monthly evaluation of energy flows, temperatures, heat losses, etc., of any component used in the system. Displayed in form of tables and bar graphs.	✗	✓	✓
Graphical Evaluation: Comprehensive hourly evaluation of energy flows, temperatures, heat losses, etc. of any component used in the system. Displayed in form of graphs.	✗	✓	✓
Tabular evaluation: Hourly evaluation of energy flows, temperatures, heat losses, etc. of each component used in the system. Displayed in form of tables. Export values to Excel for further proceedings.	✗	✗	✓
Compare Results with a reference system: Run the simulation of two different systems and compare results in a unified bar graph.	✗	✓	✓

Energy flow diagram (Coming soon)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
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## Result Report

Light Prof Designer

Print result reports in PDF, Word or Power Point	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Short Sales Report: Result presentation of most important values and system components. Ideally to show house owner.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Professional Report: Comprehensive technical report of the system, containing relevant info to persuade customer, to successfully apply for governmental subsidies, to inform installer about the system with piece list, etc. (See sample on homepage)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Economy Report: Add financial analysis results to the Professional report (Coming soon)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Report Designer: Create a custom pdf report template, containing only the results you want to show the customer. (Coming soon)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## Options

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Set language (English, German, French, Italian, Spanish, Chinese, Portuguese, Czech, Greek, Romania, Swedish). Language can be changed while running Polysun. E.g. design the system in English and print report in Spanish.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Include your company logo in the Result Report	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Set preferences for the unit system (Metric, Imperial, mixed)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Set local currency	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Subscription for 1 year included to get updates several times per year.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

## Photovoltaic Module

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Database containing several hundred tested and certified modules.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Create / import your own module and save it in Polysun's database.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Define PV field orientation (azimuth angle)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Define PV field tilt angle	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Inverter wizard that helps finding a proper set up (number of inverters and number of strings per inverter)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Modify wind speed at collector field surface	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Set rear ventilation of PV field	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Set soiling and degradation factors	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Track collector with sun's position (North-South, East-West, Biaxial)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Consider cable losses by choosing cable-type and -length	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Boundary conditions: Simulate PV fields containing up to 10000 modules.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Boundary conditions: Simulate PV fields with a total nominal power of 1 mio KW	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Database containing several hundred inverters	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Create / import your own inverter and save it in Polysun's database.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>