



polysun<sup>®</sup>  
SIMULATION  
SOFTWARE

Design and enhance your  
system with Polysun, the  
leading simulation software  
in the field of renewable  
energies



vela solaris



## Design energy systems, make energy-yield forecasts, reduce costs and enhance savings

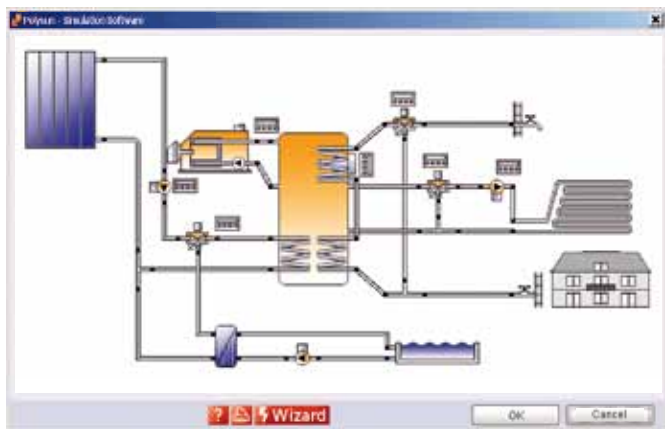
An ideal software package tailored to your needs for solar thermal systems, heat pumps, photovoltaics, cooling and combined systems.

### What our customers say:

«Polysun provides the accuracy and flexibility required to run sophisticated system simulations.»

Stefan Brändle, CEO, SunLaser Consulting GmbH

**polysun**<sup>®</sup>  
SOLARTHERMAL  
SIMULATION



### Polysun Solarthermal Simulation

Polysun Solarthermal Simulation provides comprehensive features for the analysis and definition of solar thermal systems. Polysun also provides the world's largest and most comprehensive template selection. Polysun offers, amongst others, countless ready-made templates for domestic hot water, space heating, swimming pools and process heat. In combination with a constantly updated database including most commercially-available products you will obtain undreamt-of opportunities to design an efficient system. Polysun provides a wide range of tailored reports designed to present key data such as energy balance and payback period.

**polysun**<sup>®</sup>  
PHOTOVOLTAIC  
SIMULATION



### Polysun Photovoltaic Simulation

Polysun Photovoltaic Simulation provides a huge selection of brands providing photovoltaic-modules and inverters. Dimension and modify your photovoltaic module, e.g. module surface and orientation, as you wish. Polysun helps the user choose the inverter that best suits given photovoltaic fields. Clear and detailed evaluations instill confidence and trust in customers and provide templates to support any subsidy applications.

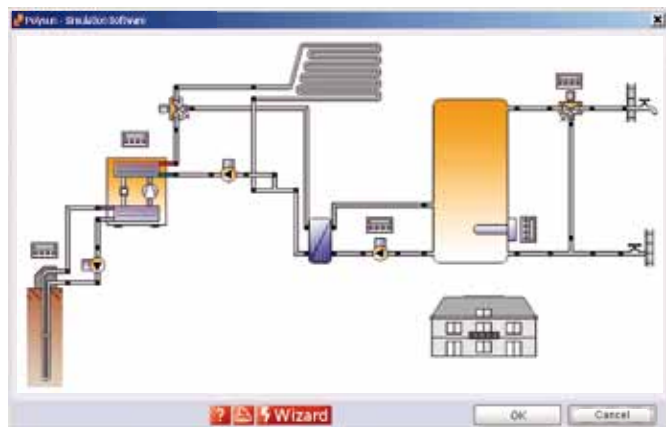


## Polysun helps you in your daily work

- Time-saving, professional design
- Reliable yield forecasts including worldwide weather data and interpolation for user-defined locations
- Hassle-free enhancement of new and existing systems
- Output of all information required for any subsidy application
- Easy generation of comprehensive reports

## polysun®

HEATPUMP  
SIMULATION

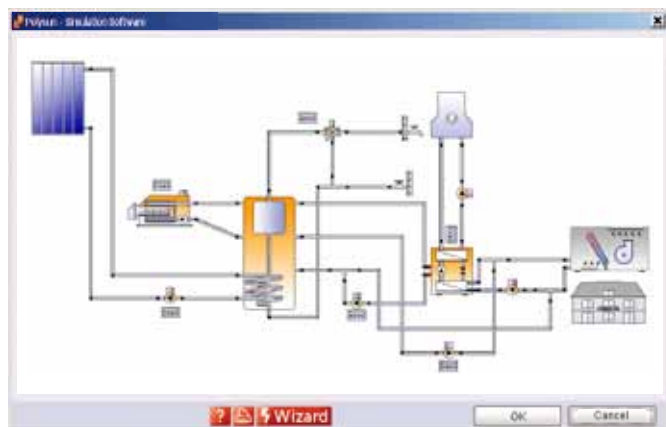


### Polysun Heatpump Simulation

Polysun Heatpump Simulation provides a comprehensive selection of ready-made templates complete with schemes for domestic hot water and space heating. Consumers are freely definable. A huge brand-product database including heat pumps, ground-source loops, tanks, conventional heat generators, pumps and heat exchangers makes it possible to adapt your system to your changing needs. Polysun provides an accurate and detailed depiction of these systems and easily calculates all variables required by experts such as, e.g. the performance factor. Polysun also provides invaluable support in dealing with all related economical issues. All results can be graphically displayed.

## polysun®

COOLING  
SIMULATION



### Polysun Cooling Simulation

Solar thermal cooling, quite simply the technology of the future, and the well-established compression cooling machine technology; both can be simulated on Polysun. Comprehensive cooling machine databases make your selection simple and practical. As in all other versions scheme templates are available here too. The absorption chiller can be primarily connected to a collector field and/or an auxiliary heating system. Secondly Polysun takes care of the building cooling simulation; alternatively a freely defined load profile may be entered.

**Polysun guarantees an accurate and transparent simulation**

Polysun has been on the market since 1992. Originally created at the Institut für Solartechnik SPF (Institute for solar technology), part of the Hochschule für Technik (Technical University) in Rapperswil (Switzerland) our software has been since continuously setting new and higher industry standards. Solid scientific foundations and its user-friendliness have made Polysun the preferred software solution for thousands of experts and well-established companies worldwide. Vela Solaris closely cooperates with universities and manufacturers to push Polysun's development further everyday.

**Polysun Simulation Software is available in three different user levels**

Tailored solutions for all users to best meet everyone's needs.

**Polysun Light**

Intuitive operation with wizards and hydronic templates; quick and reliable

**Polysun Professional**

Super-easy to use; enter own components; high-quality sales support with a wide-range of result displays and countless templates

**Polysun Designer**

Leading, market-oriented software providing maximum flexibility in the design of large and complex systems; modularity in the creation of hydronics; modular system assembly

**Combination of products from the Polysun range**

Polysun products may be combined in a variety of ways to best suit your needs and are the ideal solution for new buildings, redevelopment activities as well as for large, complex systems.

**Polysun products are available in different languages**

German, English, French, Italian, Spanish, Portuguese, Czech, Greek, Rumanian and Chinese

**Demo version**

A free-of-charge demo version is available on [www.polysunsoftware.com/demo](http://www.polysunsoftware.com/demo)

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