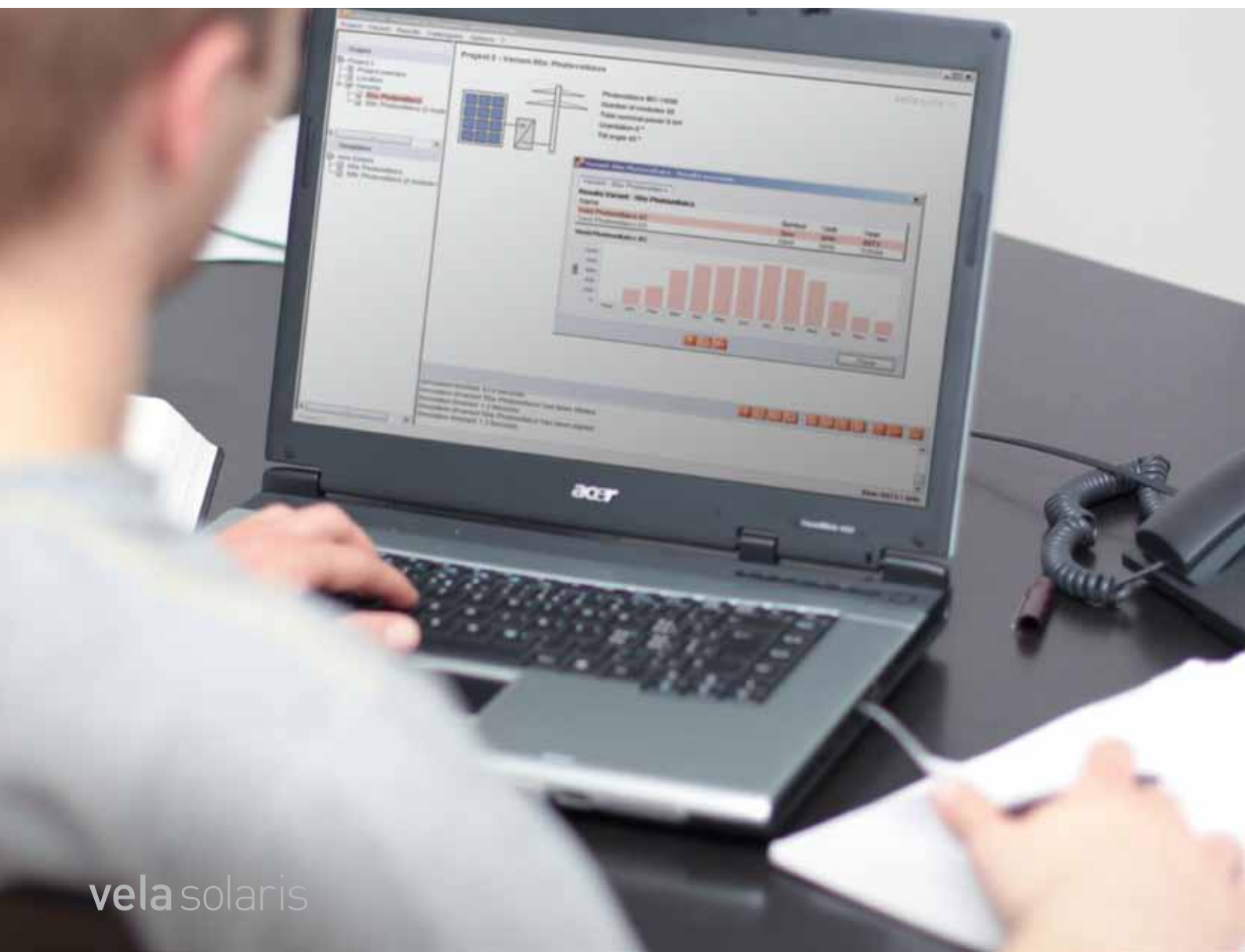


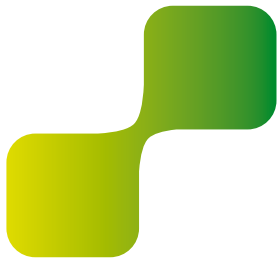


# polysun<sup>®</sup>

PHOTOVOLTAIC  
SIMULATION

Accurate yield forecasts  
with Polysun, the latest  
simulation software for  
photovoltaic systems



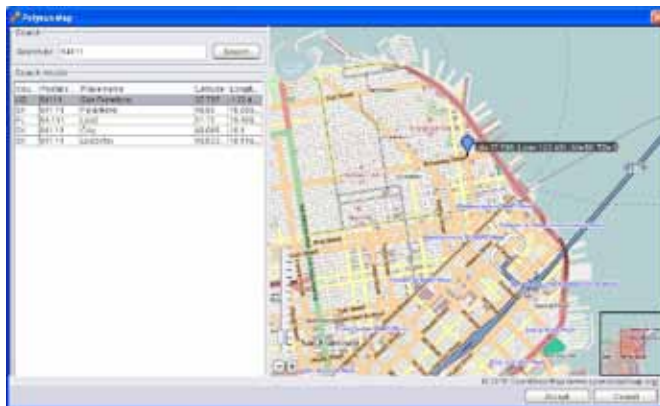


## Increased turnover through innovative software simulations

- Accurate results
- Descriptive reports satisfy customers
- Quick, efficient optimisation
- Greater competence wins more business

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

Thanks to its design, yield and economic viability calculation tools Polysun provides unparalleled flexibility in the design of top-quality photovoltaic systems.

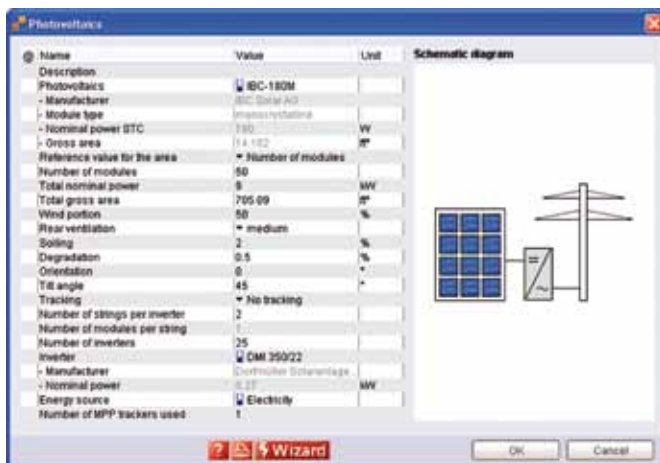


### Polysun: designing your ideal system in three easy steps

#### Step 1: Selecting worldwide weather data

- Reliable yield forecasts thanks to our global weather database including over 8000 weather stations worldwide
- Calculation of weather data for user-defined locations
- Automatic horizon definition
- During the simulation the sun's position is updated each 4 minutes
- Find the ideal location for your large systems

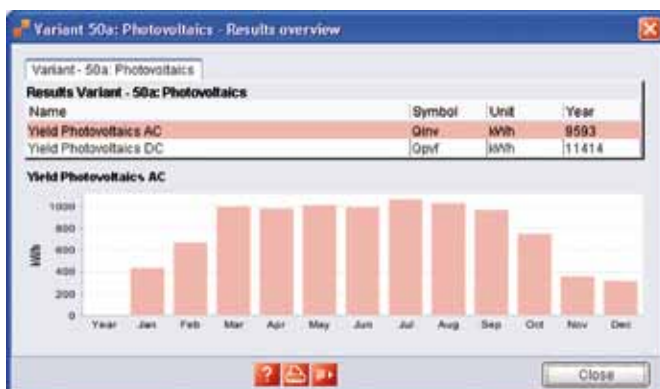
→ Accurate location selection helps build customer confidence



#### Step 2: Dimensioning your system

- Polysun provides you with a comprehensive database of commercially available products. Our database is constantly updated and promptly made available to all users.
  - Comprehensive selection of brands providing photovoltaic modules and inverters
  - Catalogue integration with own product range available.
- Dimension and modify your photovoltaic module, e.g. module area and orientation

→ Certified data guarantee the reliability of simulation and yield values generated.



#### Step 3: Result evaluation

- Automatic display of simulation results
  - Clear and detailed evaluations with PDF-reports instill confidence and trust in customers and support any subsidy applications.
  - Displaying economic results (such as payback period, incentives, energy balance) is proof of your professionalism
  - Monthly and hourly results for all components make it possible to monitor energy flows.
  - All results can be graphically displayed.

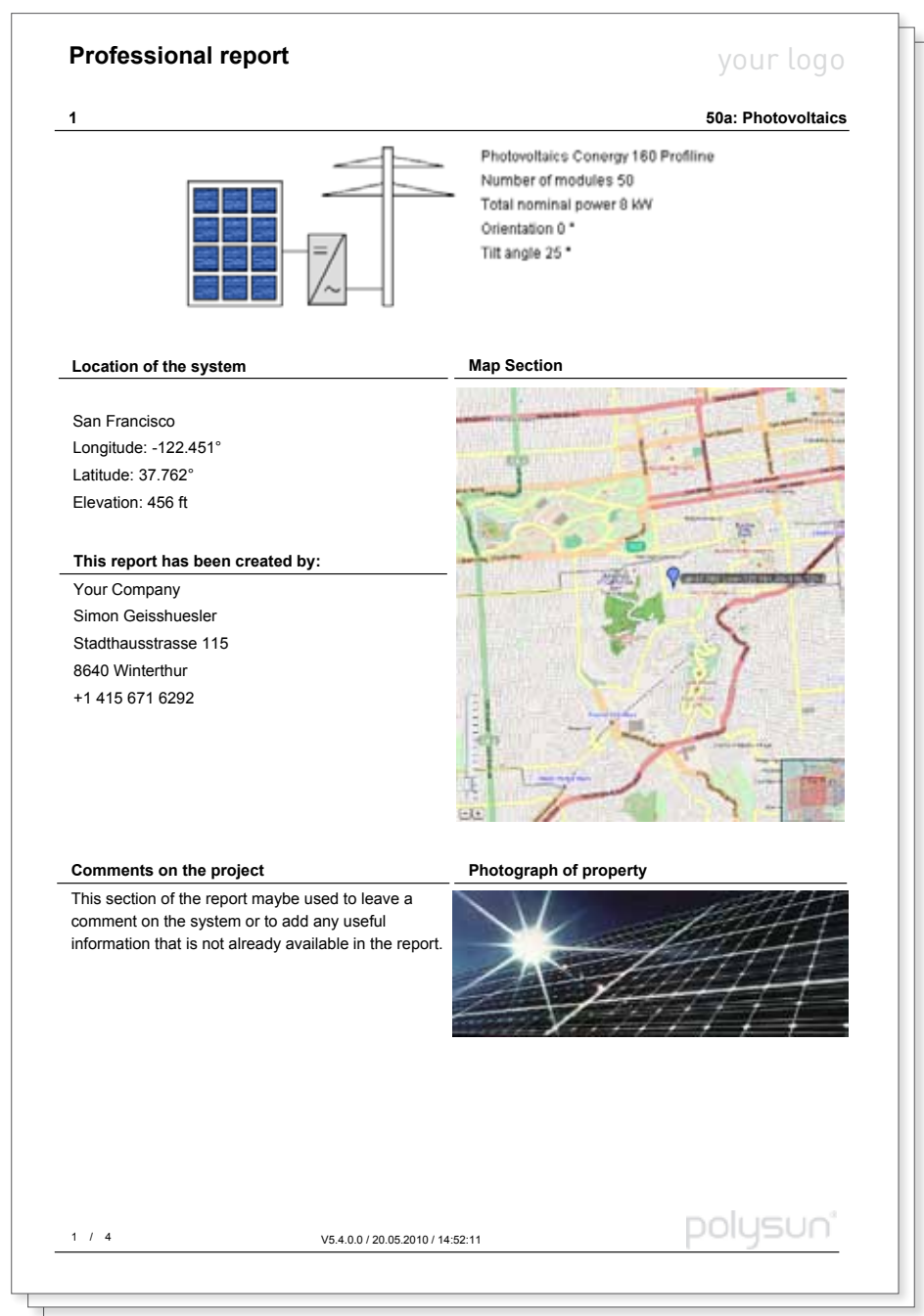
→ Customer-specific reports build customer confidence and increase your sales opportunities

## What the press says about us:

«The software is easy to operate and stands out for its modern user-interface, its powerful weather data generator as well as its descriptive result reports.»

Quote: Photon, April 2010 issue

## PDF-report



### **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 Photovoltaic Simulation is available in two different user levels**

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

#### **Polysun Light**

Intuitive operation with wizards and templates;  
quick and reliable

#### **Polysun Professional**

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

#### **Polysun Designer**

Leading, market-oriented software providing maximum flexibility in the data analysis of large and complex systems.

### **Combination of products from the Polysun range**

Upgrade your version of Polysun adding the following comprehensive modules:

- Solar thermal energy – Polysun Solarthermal Simulation
- Heat pumps – Polysun Heatpump Simulation
- Cooling – Polysun Cooling Simulation

### **Demo version**

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



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