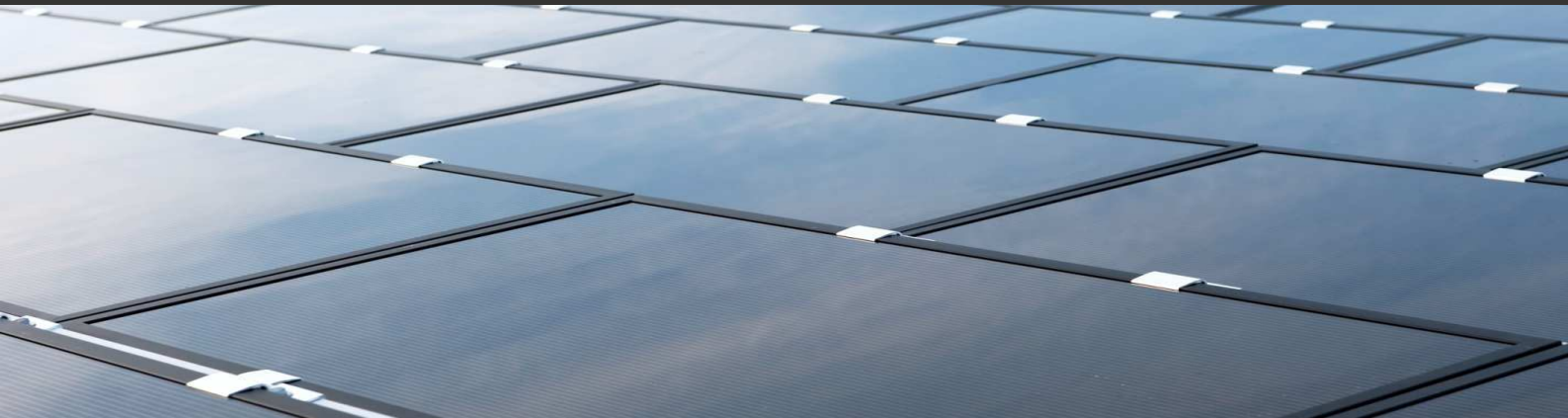


proE-Survey

Operations and maintenance for photovoltaic systems



The system has been developed on base of well field proven process monitoring and production control software to transfer industrial standards to operations and maintenance for photovoltaic plants.

The modular design and scalability of the software allows the growth of the software together with the rising technical requirements of renewable energy systems.

proE-Survey is the essential tool to optimize and support all O&M processes in compliance with current standards and norms.

PHOTOVOLTAIK O&M MANAGEMENT SYSTEM

Features

Comprehensive site and master data management

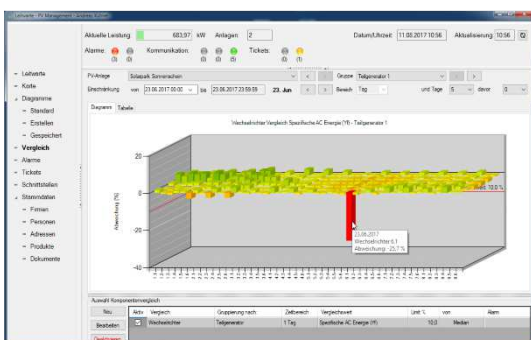
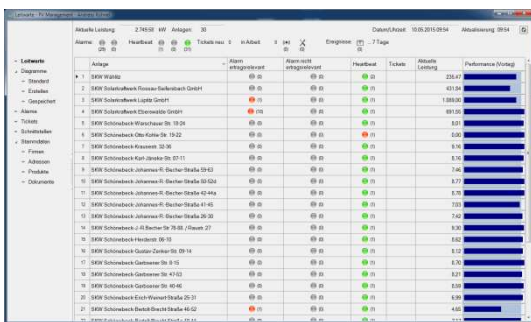
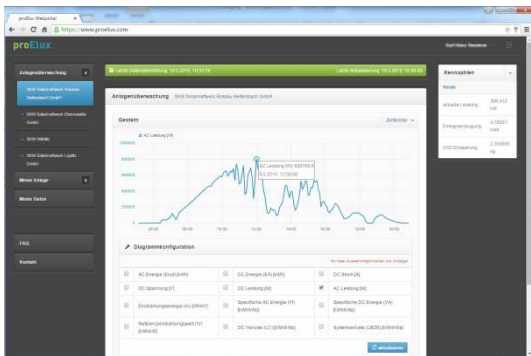
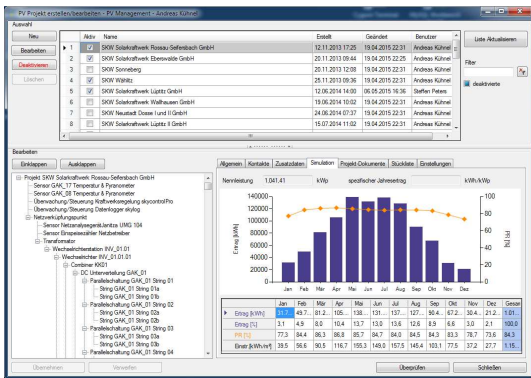
With a complete image of your PV systems with all necessary components and the link to a product database and other master data, you have an overview of all data and system components in all processes.

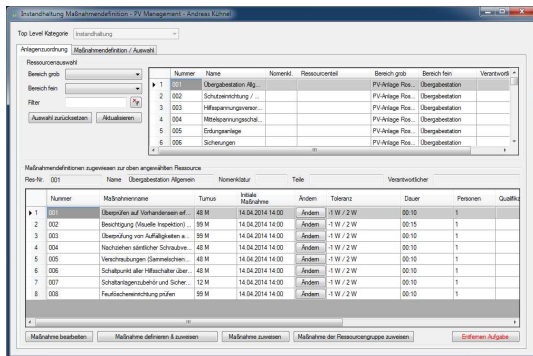
- Management of all involved people and companies with addresses and further contact data.
- Clear, detailed and structured design of the PV system with all components.
- Collecting data of yield analyses.
- Saving of project, product, or person-specific documents such as planning documents, summaries, manuals, certificates, etc.
- Usage of a central product database for quick use of existing information in new projects (e.g. inverter characteristics, module specifications and many more).
- Role-based access for plant owners, operators, installers or responsible persons via the web portal proE-Vision.

Monitoring and extended system evaluation

A clear display reduced to the essential information gives a quick overview of the current status of your asset portfolio. All data are linked to detailed information provides you the cause of a problem with some mouse clicks.

- Real-time display of the entire plant portfolio can be sorted by various criteria.
- Linking of all information, data and messages for a fast top-down navigation from overview to details.
- Integration of all necessary components, data and measurements and flexible analysis with charts or tables with different export functions.
- Extended evaluation of plant components
- Advanced monitoring of plant components by continuous calculation and reconciliation of data (for example, comparing the performance of similar components).
- Evaluation of error and status messages. Notification with integrated alarm management via email, popup window or short message service.

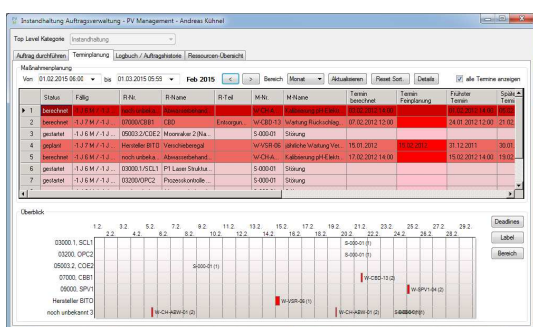




Inspection and maintenance

The integrated ticket and maintenance modules allows the automatically data exchange between plant monitoring and maintenance management. Error events from monitoring can be involved in maintenance planning and maintenance information can be used for reporting.

- Completely integrated ticket and maintenance management system with equipment management, order planning, order execution and event tracking.
- Calculation of yield loss on failures and repair planning assistance.
- Consideration of maintenance and repair times for the status management and reporting (e.g. plant availability and performance calculation).



Reporting and key figures

An automated reporting system and the provision of key figures support the evaluation of assets and provide meaningful information for your customers.

- Calculation and providing of key figures with IEC standard (performance ratio and performance index, yield, system loss and many more).
- Possible calculation of customer specific key figures.
- Flexible report generation based on MS-Office documents. Creation and integration of report templates by user.
- Automated creation of reports for defined periods as a template for manual post-processing or direct delivery to the recipient.



Services

The proE-Survey software was built in deep collaboration of software development team together with experts and manager for photovoltaic plants. With this expertise, the software has been optimized to the necessary monitoring requirements as well as the specific business processes of an operating manager.

We would like to share our experience and assist you together with our partner **Solarpraxis Engineering GmbH** on implementation of proE-Survey.

- Registration and configuration of existing photovoltaic systems.
- Definition and customizing of monitoring parameters.
- Customizing or implementation of new component interfaces (data logger, inverters, string monitoring, sensors and meter).
- Consulting for inspection and maintenance, reporting and other O&M processes.

What benefits will I receive from proE-Survey?

Flexible, modular and user-friendly

With proE-Survey you will get a flexible system which optimal adapted to operations and maintenance processes for photovoltaic plants. The further development and roadmap is coordinated and verified with the user and follows their requirements to achieve the best and realistic results. The modular system design allows the integration of customer specific applications and components.

Low costs, high-performance and high-availability

The central cloud data storage allow a flexible access to your systems from anywhere without the need to take care of the management and storage of large amounts of data. You receive a cost-effective, highly available and fully scalable "big data" application, without having to invest in hardware and administration.

All system processes are optimized to high and consistent performance even with increasing amount of data and an increasing number of managed systems.

International and future-proof

The software is prepared for international usage and will be delivered with integrated English and German language. Other languages (also Asian) can be integrated with assistance of a specialized translator and reasonable costs. The constant development and software enhancements by a motivated expert software team guarantee an ideal adaptation of the software to your requirements with fast and result-oriented solutions.



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