Solar power
Solutions for photovoltaics park management
Consistent solution portfolio for photovoltaics park management

Phoenix Contact has been an expert provider of solutions and products in the solar power industry for many years. Design an environmentally-sound and cost-effective energy supply system together with us. From ground-mounted systems to rooftop systems right through to autonomous energy supply systems, Phoenix Contact ensures the reliable operation of your photovoltaics park through the use of continuous plant data collection and an optimized feed-in management system.

Your advantages

- Application-oriented analysis and consultation for seamlessly coordinated system solutions
- Easy startup, thanks to automatic configuration of all park devices
- Convenient engineering with your favorite programming tools, thanks to the open control platform
- Resource-optimized development of the PV park
Developing and planning photovoltaic systems

Short configuration times
Reduce your configuration times thanks to our photovoltaics park management system. We provide coordinated system solutions and smart data management for all requirements in photovoltaics parks. Once the configuration of parameters is complete, the seamless implementation of our ready-made functions tool kit is easy, because all devices in the park are configured automatically.

Optimized resources
Respond quickly to the constantly increasing demands on photovoltaics parks, such as new regulations on the feed-in of solar power. Develop new system solutions together with us. You will thus be able to ensure the optimized utilization of your resources, and the workload can be planned more efficiently in the future.

Reliable communication
Our network components enable reliable communication, even under harsh ambient conditions. Standardized interfaces and preprogrammed communication blocks ensure real-time communication in your photovoltaics park. Furthermore, all protocols used in the industry are supported, and proven topologies are used.

The platform for comprehensive photovoltaics park management
The foundation for comprehensive park management is the scalable system tool kit from Phoenix Contact. We provide software solutions for all standard interfaces, from inverter communications right through to complex feed-in control systems. The software and hardware solutions, e.g. for monitoring or for the visualization of weather data, can be implemented flexibly, and coordinated without limits.
Cooperative development process

Phoenix Contact is your partner for a holistic engineering, procurement and construction service – EPC service in short.

Phoenix Contact provides you with support during planning, development, procurement, and implementation, as well as in the maintenance of your photovoltaics park. With Phoenix Contact, you can thus realize your photovoltaics projects quickly and efficiently.

Your advantages

- Comprehensive process support, from planning through to the fully equipped DIN rail
- Short configuration times and reliable communication, thanks to ready-made function tool kits
- First-class support and flexible help throughout all project phases, thanks to continuous employee training and qualification
Support during planning, development, and procurement

Economic system solutions
Thanks to coordinated system solutions, we provide you with a turnkey automation and visualization portfolio that is already proven in the field. With this, we achieve a high level of reusability and scalability, tailored to your needs. Thus, an attractively priced holistic concept is created for the realization of your photovoltaic system.

Continual certification
We work together with independent institutes in order that our solutions are certified internationally. This standardization ensures that we act responsibly and that we ensure high quality and reliable system operation.

Comprehensive service and support
The focus at Phoenix Contact is on service and trust. Our service network is available to you at all times, anywhere in the world. Depending on the requirements, we ensure short delivery times or provide you with support in the event of challenges in your photovoltaic system by patching into your system. Our experts and system partners are familiar with the regional conditions and the specific industry challenges.

Scalable photovoltaics park management
The park management system from Phoenix Contact consists of string combiner boxes, data loggers, a feed-in controller, a local SCADA connection, and a web portal. From the field level right through to the visualization of data in a portal, we have developed a scalable concept for the comprehensive operational management of the system portfolio. Each of these solutions can be implemented individually, and, wherever necessary, adapted to the specific needs of the customer. Together, the result is a holistic solution that intermeshes seamlessly, without the adaptation of interfaces.
Reliable implementation process

Phoenix Contact provides you with turnkey park management solutions. Each solution is preprogrammed and self-configuring.

To ensure the smooth operation of your photovoltaics park, our service team will work in partnership with you in accordance with your requirements. From the most minor of adjustments through to new development. Thanks to intelligent automation and visualization tools, you can continuously record and evaluate data from your photovoltaics park.

Your advantages

- Structured implementation and simulation in advance, thanks to the model-based system development
- Established standards for data formats and communication are supported by SCADA
- Optimum data availability, thanks to parallel storage in the portal and SCADA
Designing, operating, and maintaining your photovoltaics park

Short startup times
Startup times are reduced thanks to our comprehensive portfolio of standardized solutions. Furthermore, we can design complex systems in advance using our model-based approach and simulate these with Matlab Simulink. Any potential errors are therefore highlighted and eliminated prior to installation.

Superordinate SCADA system
Our SCADA application makes your photovoltaics system data available on-site for operational management purposes. Thanks to the locally preprocessed data, you receive optimum SCADA performance. The visualization interface displays key system information and, whenever actions are necessary, you can access the photovoltaics park for control purposes.

Continuous portal connection
To avoid data gaps in monitoring and reporting, data is automatically stored locally in the event that the internet connection between the photovoltaic system and the portal is interrupted. Where necessary, open system interfaces enable connection to existing portals.

Consistent process support
To ensure quick and error-free development from the outset, you can transfer consistent product data into your engineering programs. PROJECT complete supports the entire control cabinet manufacturing process. The program features a user interface that is intuitive in operation, and enables the individual planning, automatic checking, and direct ordering of preconfigured solutions. MARKING system is the intelligent solution for quickly and easily labeling terminals, conductors, cables, and equipment.

All data for your CAE applications
Bills of materials and design plans at the touch of a button
Process support during control cabinet manufacturing
Complete solutions for marking
In dialog with customers and partners worldwide

Phoenix Contact is a globally present, Germany-based market leader. Our group is synonym for future-oriented components, systems, and solutions in the fields of electrical engineering, electronics, and automation. A global network across more than 100 countries, and 16,500 employees ensure a close proximity to our customers, which we believe is particularly important.

The wide variety of our innovative products makes it easy for our customers to find future-oriented solutions for different applications and industries. We especially focus on the fields of energy, infrastructure, process and factory automation.

You will find our complete product range at:
phoenixcontact.com