

Solar-Log GmbH at EM Power Europe 2023

Energy management on the next level

Geislingen-Binsdorf (Germany), 06.06.2023

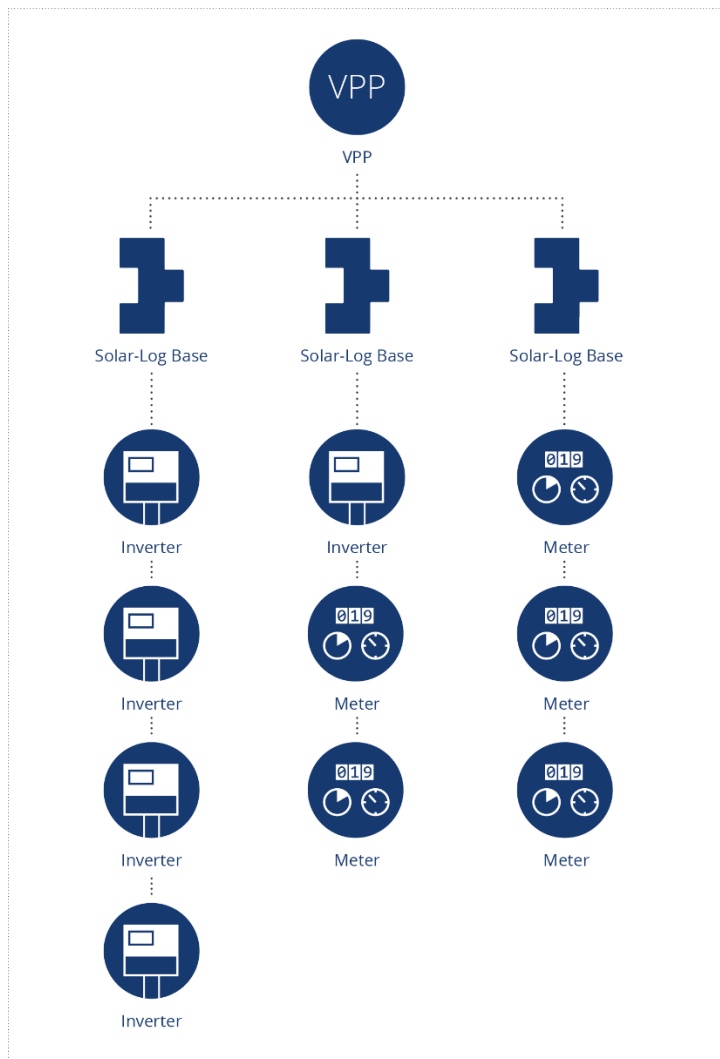
The countdown is on. One week to go and Intersolar 2023 with its numerous themed trade fairs begins. Solar-Log GmbH will be there again this year, presenting itself at EM Power Europe with its exhibition stand B5.318. This time, the focus of the energy management system was on new developments that offer important support especially for large-scale plants and solar parks and facilitate efficient operation.

Virtual PV systems - bundle data loggers and monitor the total yield

A virtual PV system is a combination of several independent PV systems. In this virtual system, data such as yields and consumption of the individual PV systems are bundled centrally. The current performance of several systems can be seen at a glance and synergies can be exploited.

Numerous advantages arise for the system operator and supervisor from the combination of several individual systems in a virtual PV system. The data loggers from different PV systems are combined without any restriction on the installed power. This means that even larger systems and solar parks, in which several solar logs are installed, can be output in one virtual system. For the system operator, this means that the total generation and consumption are calculated exactly and can be viewed immediately.

A simple subsequent creation of a virtual PV system from already created physical data loggers is possible at any time. Synergies can be exploited, as the reuse of a sensor from another PV system can be used for a virtual system. This requires a similar orientation and inclination as well as proximity to the reference system.



Possible setup of a virtual PV system

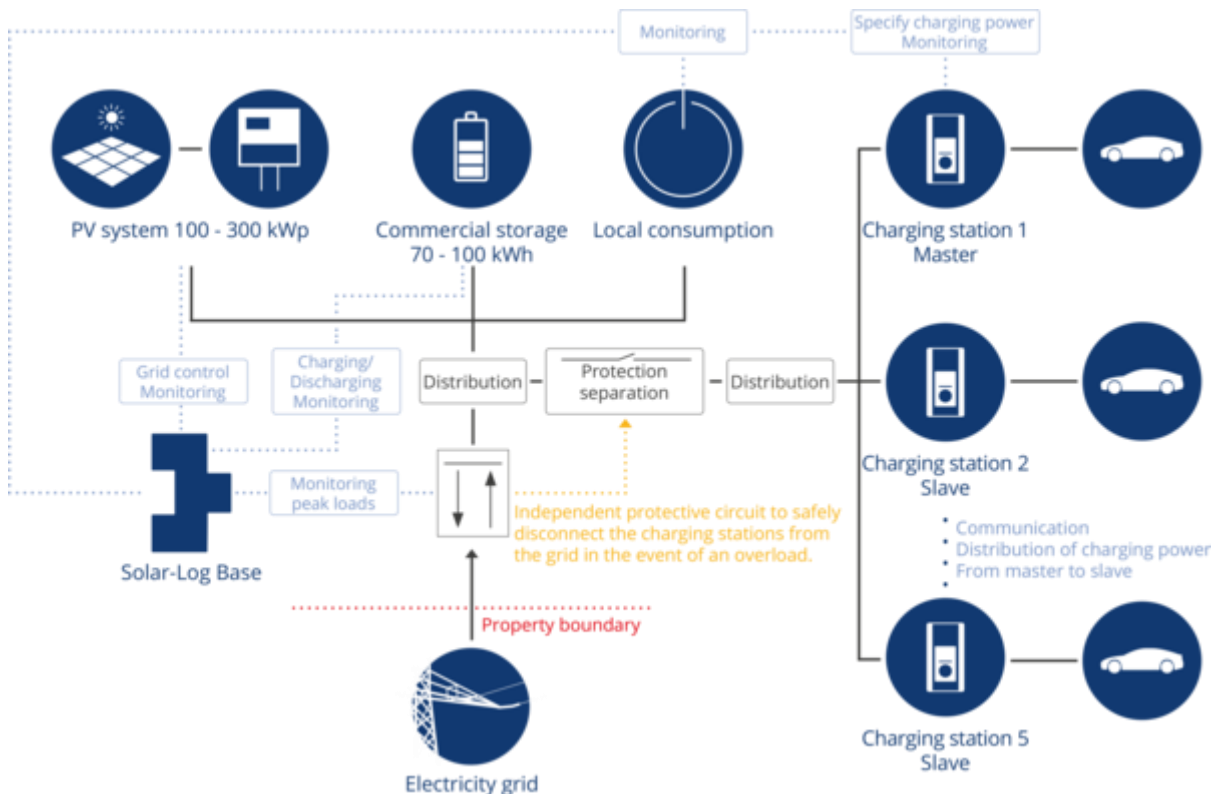
Peak shaving with Solar-Log™ - actively avoiding load peaks

The so-called load peaks are an omnipresent problem which, in addition to high loads on the electricity grid, can also lead to high costs. This problem is additionally intensified by e-mobility. This is because companies with high power peaks are confronted with even higher load peaks as a result of the switch to e-mobility.

With the help of the Solar-Log solution "Peak Shaving", which takes over the effective control of the PV system and the battery storage, these load peaks are capped and the connected load at the grid connection point is reduced.

In Verbindung mit einem qualifizierten Batteriespeicher stellt Solar-Log sicher, dass genügend Energie für das Laden von Elektrofahrzeugen bereitgestellt wird. Dabei stellt der

In conjunction with a qualified battery storage system, Solar-Log ensures that sufficient energy is provided for charging electric vehicles. In doing so, the Solar-Log algorithm ensures that the power agreed with the grid operator is not exceeded at the grid connection point. In addition, the user can monitor his PV system and realise a grid-compliant connection to the medium-voltage grid.



Focus on data protection and cybersecurity in the Solar-Log WEB Enerest™

An ongoing topic that is always present is data security. At Solar-Log, this topic is at the top of the list and is continuously expanded and kept up to date. Both the app and Solar-Log WEB Enerest™ 4 are equipped with the latest security mechanisms.

During user authentication, the "Proof Key for Code Exchange" (PKCE) is also used. This makes it even more difficult for attackers to obtain the "secrets" of our customers, which would be necessary to be able to tap into data.

Two-factor authentication

A widely used standard is now also available in the portal and in Enerest ToGo App (from version 6.1). This is a second security feature that is required when logging in. A randomly generated numerical code, which can be retrieved via a separate app.

Monitoring of suspicious login attempts

In the event of several incorrect attempts, the user is first locked out for several minutes for security reasons. In the event of a so-called bruteforce attack (someone tries to guess passwords and thus gain access to an account), your data and your user are thus comprehensively protected.

Automated attack prevention

In order to be protected against automated attacks, mechanisms will be introduced in the future to prevent attacks even during registration.

In the event of repeated incorrect log-in attempts, the user will receive an information e-mail. This will also be sent in the case of log-ins from unknown regions and password changes.

Enerest ToGo Version 6.0 - the app for mobile energy management

The new version of the Enerest ToGo app brings with it a number of optimisations and adjustments for the installer and service provider as well as for the end customer.

Mass archiving of alarms for installations

Installers and users with monitoring rights can now combine alarms for each installation in a collective archiving. This is possible via the alarm list in the installation view.

Uploading a system image

Users can now view and edit the installation image in Enerest ToGo on their mobile devices.

Dynamic target

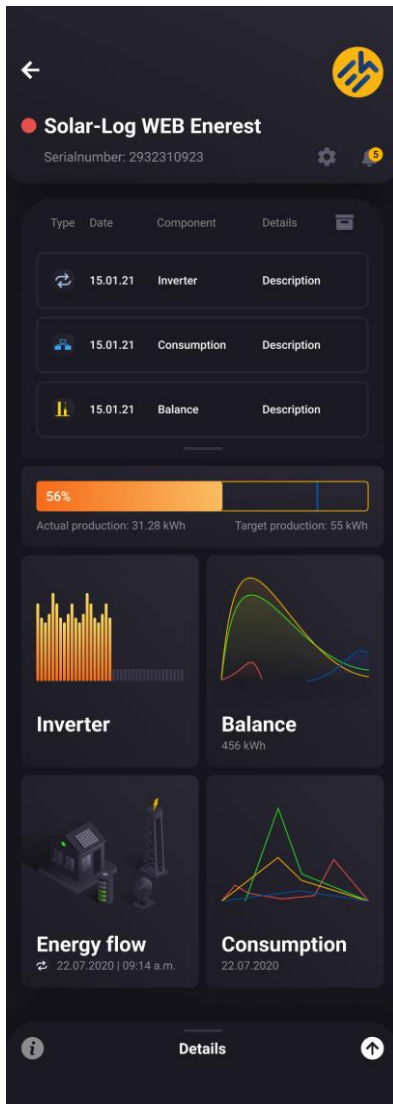
The dynamic target is displayed in the balance table and shows the target value over time.

Individual user settings

To provide more clarity, we have reorganised the Settings and User Settings sections.

In future, all settings relevant to the user will be found in the User Settings section.

Therefore, the settings for biometric login and 2-factor authentication have been moved to this area.



Mass archiving of alarms for plants

About Solar-Log GmbH

Solar-Log GmbH is one of the leading companies in the fields of PV monitoring, smart energy and feed-in management. The Solar-Log™ hardware and software products are used worldwide in over 140 countries for monitoring photovoltaic plants, optimising self-consumption and regulating the energy fed into the grid. The portfolio in the Solar-Log WEB Enerest™ monitoring platform includes over 370,000 plants with a capacity of over 17 GWp. Solar-Log™ has been a subsidiary of BKW AG since August 2015. BKW AG is an internationally active energy and infrastructure company based in Bern (CH).

Press contact

Jörg Niche

Solar-Log GmbH



Fuhrmannstrasse 9

72351 Geislingen-Binsdorf

Phone: +49 7428 4089-327

E-mail: presse@solar-log.com