Press Release

Berlin, November 5, 2020

Equipped for the future: PV*SOL premium 2021 now maps sector coupling

With the new version PV*SOL premium 2021, which will appear in November 2020, the coupling of a PV system with a heating and hot water system can now be designed.

PV*SOL premium is a dynamic simulation program with 3D visualization and detailed shading analysis for designing and simulating photovoltaic systems. The program version 2021 has been adapted to the latest technical developments and expanded for future-oriented applications. By integrating the simulation of a complete hot water system with the integration of a thermal building model from the sister program T*SOL, the share of the energy consumption of an electric heat pump to cover the thermal building energy requirement, or the hot water energy requirement, can now be calculated and the respective share of the electricity from the PV system determined.

With the new DWD (German Weather Service) data sets, high-quality test reference data sets for Germany are available for the first time in PV*SOL premium 2021, which were generated in 2017 as part of a research project. The global climate data from **Meteonorm 7.3** has also been added. The program thus includes the latest climate data records that are currently available.

Appliances that are only operated when there is a PV surplus can be simulated in PV*SOL premium from version 2021. The **surplus consumers** can have a dynamic or fixed power consumption.

The import of **short-term load profiles** now also allows the load profiles measured over a freely adjustable period to be imported into PV*SOL premium 2021. Previously, the shortest specified period was a full year.

There is also something new in the 3D visualization: the **map import** (floor plans, cadastral maps and screenshots from web-based satellite maps) includes an improved user interface and additional map material.

Further innovations in PV*SOL premium 2021:

! Circuit diagram: clear representation of the interconnection of the individual modules and strings up to the inverter and the feed point; safety devices can now be managed in templates; components can be added in groups and thus reused
! Project report: the templates are now freely configurable and an import and export function is available

About Valentin Software

Valentin Software GmbH has been in business for over 30 years. With the PV*SOL, T*SOL and GeoT*SOL brands for dynamic simulation, design, yield and profitability forecasting of photovoltaic, solar thermal and heat pump systems, the Berlin-based software company has

made a name for itself as a world leading provider of innovative design software for sustainable energy supply. Its customers include engineers, system designers, architects, installers, technicians and manufacturing companies in the field of electrical, heating and building technology.

Image Caption
In PV*SOL premium 2021, solar thermal systems with heat pumps or heating rods can also be calculated.

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