SWOpti (Solar Watt Optimisation)
Transcript of the interview with *Ouest-France / Le Publicateur*, June 2025

SWOpti software continuously monitors solar panel (and/or wind turbine) production and home/business consumption every five seconds. In the event of overproduction, SWOpti activates household appliances according to a user-defined priority order, thus maximising the use of free energy. Conversely, if consumption exceeds production (did someone turn on a hairdryer?), SWOpti deactivates certain appliances to avoid drawing on the electricity grid. It can also manage specific situations, such as "red" days for French EDF Tempo subscribers, or ensure the pool pump only operates when electricity is free. SWOpti optimises your self-consumption for electric heating and electric vehicle charging. The savings are in the hundreds of euros or even more than a thousand euros per year. SWOpti can be added to an existing or new photovoltaic installation.

Jean-Jacques Filby, the software's designer, is often asked the question "Do you sell solar panels?" For two years, SWOpti has been trying hard to explain that SWOpti is software, and that we don't sell or install solar panels. But faced with this incessant demand, SWOpti has looked into "Plug-and-Play" (PnP) panels and how they could best be used with SWOpti. PnPs don't require installation because you place them wherever you want (they are movable) and plug directly into an electrical outlet. As a result, they are much cheaper than "installed" panels and the administrative procedures are very reduced or non-existent (in France, if you don't install them more than 1.80 m high).

One of the problems with PnP panels that SWOpti has just solved is the injection limit. We all know that if you turn on too many devices, they trip. The same thing happens with the public grid: if too many people inject their excess production into the grid, the grid could trip. To avoid this, ENEDIS, the French electricity distribution manager, imposes an injection limit, for example, 3000 watts, and consequently, this limits the number of panels you can have. SWOpti's algorithm has been modified to take this limitation into account and allow you to have more panels. Using the measurements it takes every 5 seconds, as soon as you exceed your limit, SWOpti shuts down a set (or if necessary, several sets) of your PnP panels so that you comply with this ENEDIS rule. You can now have more than 3000 watts of panels.

In addition to being less expensive than traditional panels because there are no labour costs (there is no installer), you can purchase them as you go.

SWOpti works with solar batteries, but these are still expensive. To offset this cost, SWOpti designed the MNR (Mini Night Reserve). This is a specialised but much less expensive battery that charges during the day with the sun and powers selected devices (a fridge, your lights, etc.) at night.

SWOpti now offers everything you need to go solar, keeping in mind that it is the software is your ally in the long term to optimise your self-consumption and save as much money as possible. This allows you to reduce the return on investment time of your installation. To allow you to acquire an installation at an even lower price, SWOpti frequently organises group purchases with town halls and works councils. Ask them! You can also organise a group purchase with your friends and family. SWOpti also offers electric vehicle dealers a package that they can offer to their customers containing solar panels with SWOpti software and a reinforced socket, thus allowing their customers to better benefit from their investment.

www.swopti.fr
contact@swopti.fr
09.82.77.60.14