

Measuring solar production and using overproduction



With Shelly Pro 3EM it is possible to precisely measure energy consumption as well as the solar production, and with some simple programming, it is simple to use the overproduction for heating, cooling, charging your electric vehicle or similar, to optimize your electricity costs.

What you will need

- Shelly Pro 3EM for measuring the energy consumption and energy production.
- Shelly Plus 1, Pro 1, or similar device to activate your energy-consuming device.



Shelly Pro 3EM



Shelly Plus 1 / Shelly Pro 1



How to

- Install your transformer clamps of the Shelly Pro 3EM or 3EM between your RCD and energy meter.
- Create a scene that defines when you want to switch on your car charger, heat pump, or similar. When your Shelly device has negative energy metering (like -1.000W), it means that you are producing 1.000 W more power than you are using.
- The trigger device should be your Shelly Plus 1 or Shelly Pro 1. To turn on your electric car charger, you can use Shelly Plus/Pro 1 in combination with a 3-phase contactor. To activate your heat pump, you can do it by triggering the activation input of the heat pump (if the heat pump supports that).



Scan for a detailed guide