

Be green, be smart and save money

Make the most of your self-generated energy

We need energy for everything we do. Energy opens up a world of opportunities. But we also totally depend on that same energy—without it, our daily life would be full of disruptions. Now we can take control of our own energy supply.

Be independent...

- > ...from the energy suppliers by generating and managing your own power
- > ...from ever-increasing energy prices
- > ...from power outages and have a secure and reliable energy supply

Optimised self-consumption is key

Make energy, earn money... save money! With energy prices going up and feed-in tariffs going down, your earnings will only go down whilst there is more and more to be saved. Have a look at what you can save by using your own energy rather than feeding it back to the grid. And as time goes on, your profits will only go up.

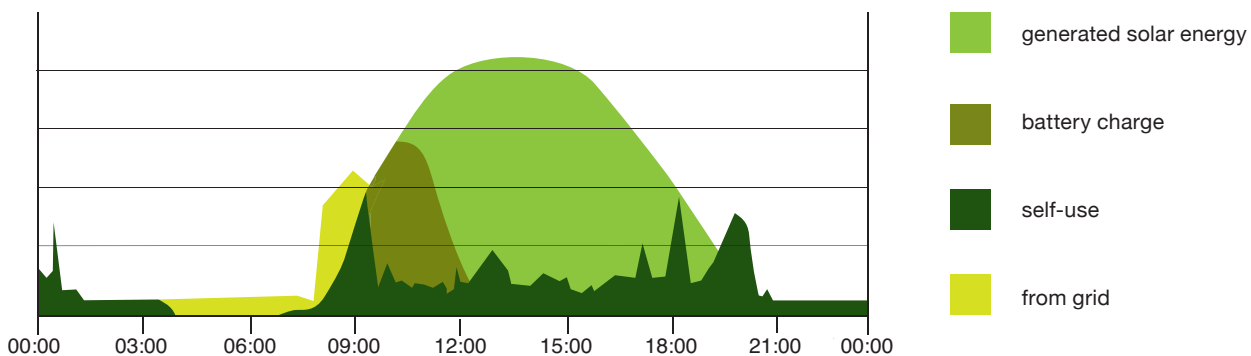


Figure 1: Solar generation and storage

As your solar energy is generated during the day, there are two options for maximising your self-consumption:

1. Maximise your direct energy consumption during the day
2. Store your surplus generated energy during the day to use at night

How much generated energy you will be able to use yourself will depend on:

1. Your average energy consumption during the day
2. The capacity of your solar system
3. Your annual energy consumption

Scenario during the day	Self-use with standard inverter up to:	Self-use with battery storage up to:
Not at home	10%	60%
At home	30%	70%
Continuous energy consumption > 5kWh	70%	N/A

Figure 2: Indication of maximum self-use based on a 3.7 kW PV installation with an average energy consumption of 3500 kWh per year.

The PowerRouter self-use solution

The Nedap PowerRouter offers the ideal solution for optimising use of self-generated solar energy. The PowerRouter is an intelligent energy management system, combining a solar inverter and a battery management system in one unit. This all-in-one solution allows you to store surplus generated energy in batteries during the day, for use at night. It will try to minimise the use of energy from the grid under all circumstances, allowing you to be as independent as possible and always guaranteeing the largest possible savings on your energy bill.

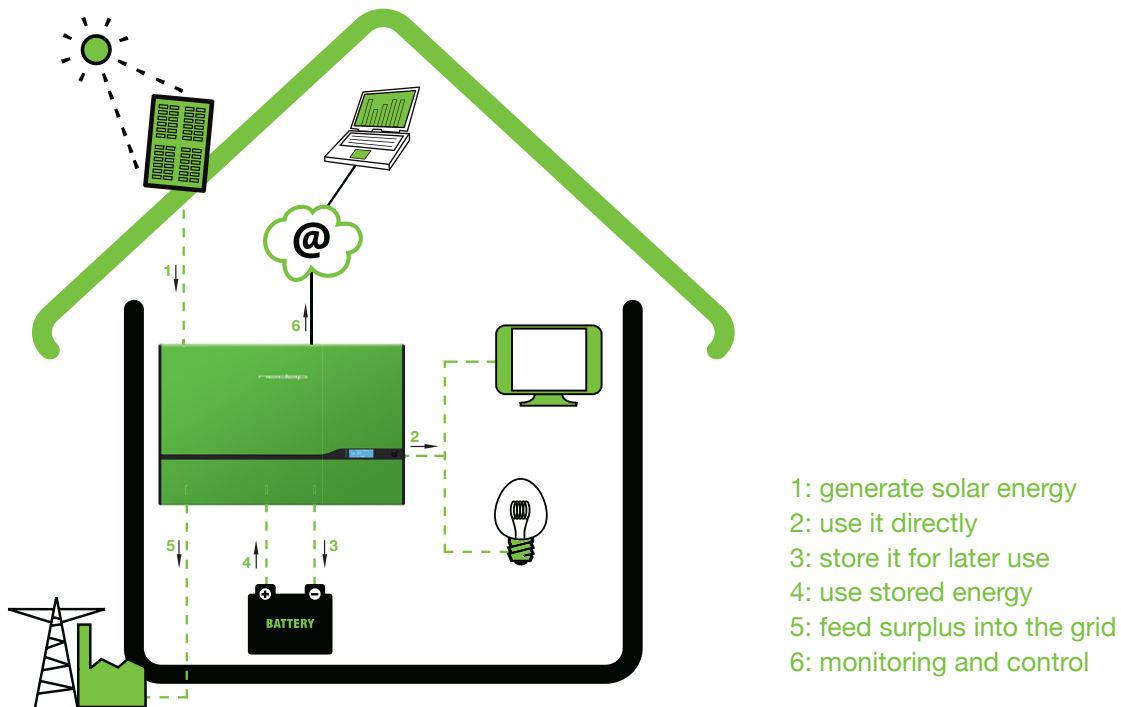


Figure 3: The PowerRouter self-use solution

How much will you save?

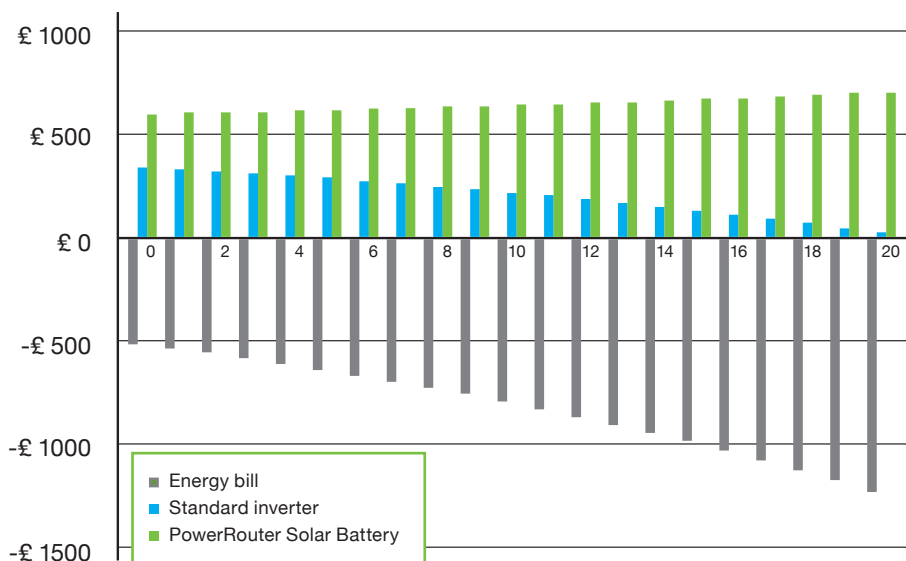


Figure 4 based on:

- > Costs and savings over a period of 20 years, based on a FIT of 15.44p.
- > An energy price of 14.5p with an annual increase of 4.5%.
- > A standard inverter with 30% self-use and a PowerRouter Solar Battery with 70% self-use.

Figure 4: Costs and savings

The PowerRouter Solar Battery – special features

- > **Integrated intelligent Battery Manager** – to optimise your self-use.
- > **Remote monitoring and management*** – gain access to detailed system information via your very own page on the web portal www.myPowerRouter.com.
- > **Consumption monitoring*** – the web portal not only provides detailed information about your energy generation but about your total energy consumption as well.
- > **Load management*** – switch on an additional load to use surplus generated energy only, allowing you to increase your self-use even further.
- > **Back-up power supply** – continue to use your self-generated energy even in the event of a grid failure.
- > **“Connect & grow”** – start with the PowerRouter Solar Inverter and then easily expand the system by adding the PowerRouter Battery Manager and batteries whenever it is most beneficial for you.

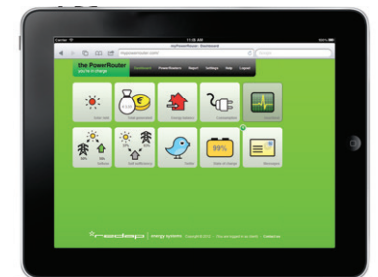
*Features also available on the PowerRouter Solar Inverter only.



PowerRouter Solar Battery (PRxxSB-BS)



“Connect & grow” – PowerRouter Battery Manager (PRExxB) + PowerRouter Solar Inverter (PRxxS)



Web portal myPowerRouter.com

For more detailed information about the PowerRouter products, please contact your installer or visit our website at www.PowerRouter.com. Find out what the PowerRouter can do for you!

*You're in charge of your own energy. **Forever***

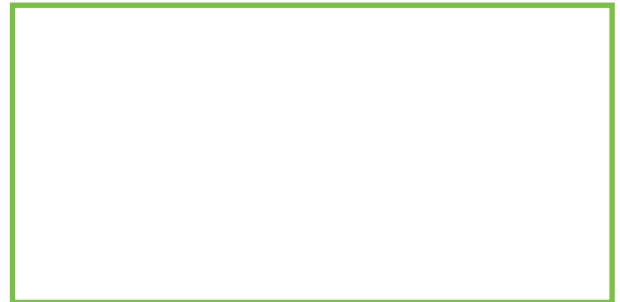


About Nedap - technology that matters

Nedap, based in the Netherlands, is a manufacturer of intelligent technology solutions for today's challenges. Enough food for a growing population, clean drinking water around the entire world, and smart networks for sustainable energy are just some of the goals Nedap is working towards.

Nedap was founded in 1929, it has been listed on the stock exchange since 1947, and employs more than 700 staff worldwide.

www.nedap.com



the PowerRouter
you're **in charge**