



THINKING ABOUT TOMORROW WHILE SAVING MONEY TODAY

A SELF-SUFFICIENT ORGANIC RETAILER THAT SAVES 10,000 EUROS ON ENERGY COSTS A YEAR

HÖRSCHING, AUSTRIA: The concept of sustainability is at the heart of Biohandel GmbH run by the Pichler family. Only organic fruit and vegetables are supplied from Hörsching to food retailers, healthcare facilities and businesses. The cooling of the foods requires a huge amount of energy – 40% of which has been generated by the company itself since July 2018. The business also takes a sustainable approach to transport; there are three electric company cars on site, which are charged with the self-generated PV energy.

10,000 EUROS SAVED YEAR ON YEAR

The biggest electricity consumer at the retailer is the cooling system in the warehouse. However, it is possible to cover 40% of the energy requirements with solar energy thanks to the roof-mounted PV system. *“The PV system is ideal for us. We require a particularly large amount of electricity for cooling when the sun shines, so it makes sense to use the energy for our own load consumers,”* says managing director Gerhard Pichler. *“The investment costs for the system will be recouped in 5 to 6 years.”*

The company covers 40% of its overall energy needs with PV energy and saves 10,000 euros on energy costs every year.

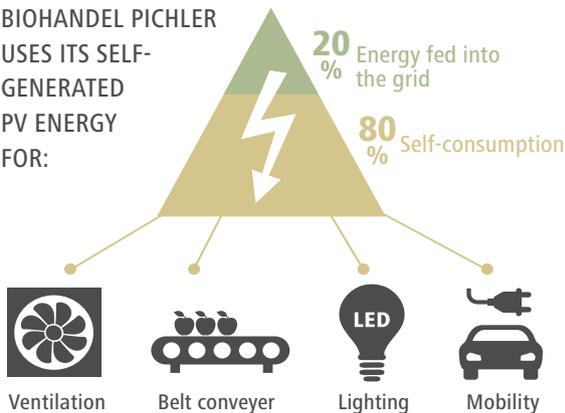


E-MOBILITY IN THE VICINITY PAYS OFF & IS FUN

Three of the company cars are electric vehicles from different manufacturers. They are charged using the Keba wallboxes installed on the premises. Naturally, the electricity comes from the company’s roof-mounted PV system. *“Switching to electric cars is worth it in many respects. For one, in Austria we don’t pay any benefit in kind. Secondly, we can charge the vehicles with our self-generated energy, increasing our rate of self-consumption. And thirdly, they’re a really fun way to get around,”* adds Gerhard Pichler.



BIOHANDEL PICHLER USES ITS SELF-GENERATED PV ENERGY FOR:



THINKING OF THE FUTURE:

At Biohandel GmbH, plans are being made to take even more measures to support the efficient use of electricity over the next few years.

- / Optimising the cooling system
- / Integrating an emergency power unit into the PV system
- / Switching all the lighting to LED technology

SYSTEM DATA	HÖRSCHING, AUSTRIA
Size of installation	99.9 kWp
System type	Roof-top installation
Inverters	1 Fronius Symo 6.0-3-M, 3 Fronius Eco 27.0-3
Solutions for e-mobility	Keba Wallbox integrated into the PV-system
Commissioned	July 2018
Annual yield	Approx. 100,000 kWh
Self-consumption rate	80%
Self-sufficiency rate	40%
CO ₂ savings / year	53 tonnes
Energy cost saving / year	Approx. 10,000 Euros
Payback period for the system	5-6 years

