



## **NOW WE'RE SELF-SUFFICIENT!** **98% ENERGY AUTONOMY** **FOR THE GAHLEITNER FAMILY**

Neufelden, Austria: "My husband and I both work in the energy industry so it makes sense that we want to do everything we can to ensure that our house is as energy-efficient as possible. We can proudly claim to produce 98% of our own energy during the summer", explains Miriam Gahleitner.

# 365 DAYS 93% AUTONOMY

The Gahleitner family has built a PV system that is significantly larger than they currently require for their consumption. Thanks to their storage system, solar-energy water heating and electricity-generating ÖkoFEN heating system, their average yearly power production is 93% independent from the public grid.



*“The majority of the solar power that we produce during the day is stored. We only come home from work in the evening but we don’t want to feed the power into the grid. So the battery is ideal for us. The storage system means we can go the whole night without having to use power from the grid”, reports Martin Gahleitner.*

## MOBILITY AND HOT WATER WITH SOLAR POWER

With a system size of 7.8 kWp, the Gahleitner family have already thought about the future when planning the east-west PV system and have made maximum use of the roof surface. Miriam Gahleitner is currently still charging her electric car using a 230-V domestic socket. But now there’s nothing to stop her installing a wall-box and supplying it with PV power.

The Gahleitner family is already heating its water with solar energy: namely, with the Fronius Ohmpilot. The result is that the couple can produce 98% of their power from March to October without needing to draw from the grid.

## POWER IN THE EVENT OF A BLACKOUT

The Gahleitner family has integrated its pellet heating system into the energy system. This provides power even in the event of a blackout. The heating system can also store the energy in the BYD battery.



SYSTEM DATA	NEUFELDEN, AUSTRIA
Size of installation	7.8 kWp
System type	Roof-top installation East-west PV system
Inverter	Fronius Symo Hybrid 5.0-3-S
Storage solution	BYD Battery-Box H 11,5
Solution for heat generation	Fronius Ohmpilot
Energy flow management	Loxone Home Automation System
Heating system	ÖkoFEN Pellematic Condens e
Special feature	93% autonomy – yearly average 98% autonomy from March to October

