

[Press release, 14.11.2023](#)

Achieving wellness with solar power

A Belgian homeowner has adopted an eco-friendly approach to his almost century-old single-family home, as well as his jacuzzi, by utilizing the photovoltaic power manager, AC•THOR, from my-PV.

Neuzeug, Austria. Saving money and contributing to the care of the environment at the same time – that was the aim of the single-family homeowner in the Belgian region of Flanders. He sought a sustainable solution to complement his existing gas heating system and heat the water in his 1,500-liter jacuzzi for his family of four. With the AC•THOR from my-PV, a renowned expert in solar-electric heat generation based in Austria, he found what he was looking for. He is now converting the surplus electricity from a PV system with 15 kWp output into hot water and solar-electric heat.

Nicolas G., the homeowner, purchased two AC•THOR devices from GPC Europe, a Belgian sales partner of my-PV. These devices have been supplying hot water to the house since June 2023 and heating the jacuzzi since April 2023. Compared to the prices of 2021, prior to the energy crisis, the homeowner saves 350 euros annually just on operating his hot water boiler. Given the current electricity prices, he estimates savings of 45 euros per month.

The sun replaces gas

Since the installation of the photovoltaic power managers have been in operation, Nicolas G. has saved the natural gas previously used to generate heat from March to October. The surplus energy generated by the PV system enables him to maintain the hot water temperature at a consistent level of 70°C and the jacuzzi at a comfortable 37°C. Natural gas is now only required for cooking during these months.

The homeowner expressed his satisfaction with the uncomplicated installation, stating, "my-PV products are plug-and-play, offering an outstanding utilization of PV power. I continue to be amazed by the positive impact on our home's energy bill, thanks to the two AC•THORs." Additionally, he no longer feels guilty about taking hot baths, noting, "The relaxed feeling of total comfort knowing that all the energy needed to heat the water in the house and in the jacuzzi is coming from your own photovoltaic system."

System data:

Planning	GPC Europe
Location	Meulebeke, Flanders, Belgium
Photovoltaic power, direction	15 kWp, facing north and south
Heat storage	Combination of heated gas and electric tank of 200 liters 1500-liter hot water jacuzzi
Building type	Almost 100-year-old single family house, partially renovated
my-PV products in use	1 AC•THOR is used to heat the 200 liter tank for DHW supply 1 AC•THOR is used to heat the jacuzzi
System control	SMA home manager to prioritize excess PV power among two SMA EV Chargers and a battery by BYD ESS 16.6 kWh

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About my-PV

Founded in 2011, my-PV GmbH, based in Neuzeug, has evolved into an important manufacturer of hot water heating with photovoltaics. Since 2018, the company has expanded its focus to include solar-electric solutions in the heating and space heating sector. In August 2021, my-PV moved to the unique solar-electric company building located at Betriebsstrasse 12 in 4523 Neuzeug, Upper Austria. At this facility, my-PV not only develops but also produces devices that connect photovoltaic systems with the heating sector. Currently, my-PV has a team of 60 employees..

Images:



An AC•THOR utilizes solar power to maintain a consistent temperature of 37°C in the 1,500-liter water jacuzzi.

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Since April, the photovoltaic power manager AC•THOR from my-PV has been heating the jacuzzi with solar electricity.

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The electricity for solar-electric hot water generation is generated by a PV system on the roof of the nearly 100-year-old single-family house.

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Another AC•THOR controls the heating of the 200-liter tank for the house's hot water supply.

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Images can be downloaded at:

<https://drive.google.com/drive/folders/1CK7-J4HjrjP5S9Nxq5p6kwres5XOyozc?usp=sharing>

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