

## Kraus & Naimer: Generating green electricity on one's own roof

*Since June 2021, the largest production facility of Kraus & Naimer Group located in Weikersdorf am Steinfelde (Lower Austria) uses its newly established photovoltaic installation to generate its own power.*

**Vienna, April 1, 2022** - Owing to its new photovoltaic installation, Kraus & Naimer not only saves costs but also helps to preserve the environment. The independence from constantly rising energy prices gained using solar power enables the company to sustainably lower its costs on a long-term basis.

Following a planning period of six months regarding the entire thermal rehabilitation of the building, the photovoltaic system was installed on the roof of several parts of the building. The installation process itself took a total time of approximately one month.

Together with Kraus & Naimer's in-house technicians the company Elektro Alfons took care of the required AC cabling, while the Karl Mayerhofer GesmbH was responsible for the installation of the DC cabling.

### The most important facts at a glance

A total of 734 modules were installed on the roofs of building parts 1, 2 and 4, the maximum output of the photovoltaic system is 249.56 kWp. Each of the monocrystalline modules has a peak performance of 340 watts.

- Total reference area of 1,238.50m<sup>2</sup>
- Flat roof with bituminous foil and gravel
- Solar energy is the primary energy
- All photovoltaic modules are elevated and installed facing East-West
- The module inclination is 10°
- The modules' substructure consists of an aluminium rail system with clamps.
- The aluminum rails are weighted with flagstones on the roof

The calculated **simulation results** as well as the **actual energy yields** paint a clearly positive picture:

- PV generator output 249.6 kWp
- Annual yield 1,044.21 kWh/kWp
- Utilization level 89.9%
- Yield reduction due to shading 2.6% per year
- Energy yield 260,692 kWh/year
- Grid feed 16,499 kWh (in 2021)
- Standby consumption (inverter) 100 kWh per year
- Avoided CO<sub>2</sub> emissions 156,356kg per year

### An initial evaluation from Kraus & Naimer in Weikersdorf

The photovoltaic system has been in use now since June 2021 and the results are positive: *"We are glad to have taken the required steps to install a photovoltaic system. Now, after nearly one year, the results are very positive. Our daily (24h) energy requirements are approximately 13,000 kWh, which means that we almost always use up the entire generated power ourselves. Only on a few sunny weekends we might*

feed some power back into the grid”, says Karl Kohlhofer Msc, manager of Kraus & Naimer in Weikersdorf.



Photovoltaic system on the roof of Kraus & Naimer Produktion GmbH in Weikersdorf (Lower Austria)

Photo: © Karl Mayerhofer GesmbH

### **About Kraus & Naimer**

Kraus & Naimer Produktion GmbH is an electrical switchgear manufacturer based in Vienna. It was founded in 1907 and its symbol is the Greek “Phi”. The company is specializing in the production of cam switches and switch disconnectors and is a strong partner for many customers from different sectors such as transport (railways, vehicles, ships etc.), conveying systems, lift systems, mechanical engineering, power generation and power distribution. The family business is the world market leader in the field of cam switches. Moreover, the smallest cam switch in the world (Model CA4N) is a Kraus & Naimer product. The company has six production plants, 18 distribution and consulting companies - the largest of which is located in Weikersdorf (Lower Austria) - and it has more than 900 employees worldwide.

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