



Press release

19 June 2024 | Renningen-Malmsheim

Plan photovoltaic systems more easily and install them more quickly:

K2 Systems presents optimised mounting systems and digital tools at Intersolar

K2 Systems is turning 20 years old this year and will be showing how to make good things better under the motto "Celebrating 20 Years of Connecting Strength".

At "The smarter E Europe" energy trade fair in Munich from 19 to 21 June 2024, photovoltaic mounting system manufacturer K2 Systems will be presenting more than a dozen optimised products and digital tools. They have one thing in common: working with them makes work easier for installers and saves time.

With a wealth of innovations and additional features in the K2 Base planning software, improvements to the K2 Dome 6 flat roof system, new façade solutions and a K2 Buddy snow load monitoring system that is even easier to install, the European market leader from Renningen in Germany is demonstrating that it is close to the needs of installation companies and understands the wishes and requirements of practitioners. No wonder: K2 Systems will have been on the market for two decades in 2024. This will be celebrated under the motto "Celebrating 20 Years of Connecting Strength" at the K2 Systems stand in Hall A6 (stand number A6.280) at Intersolar Munich.

Digital Innovations

K2 Base optimised

This year, K2 Systems is presenting a whole range of digital innovations. Among other things, the makers from Renningen have expanded and optimised the successful planning tool K2 Base. This makes the workflow significantly faster than before. The free planning tool now has over 88,000 users and has already been used to design over two million projects.

Ordering made easy with K2+ interface to wholesaler webshops

K2 Base has a new interface to the webshops of leading wholesalers. This free K2+ feature speeds up and simplifies the ordering process. After designing the PV system in just a few steps, the user receives a complete items list with the products required for the project-specific substructure. Via the new interface, this is transferred digitally directly to the shopping basket of various European photovoltaic and electrical wholesalers. This prevents error-prone manual transfers. Currently, 24 European wholesalers are already connected, and seven more will be added shortly. Users can also narrow down the list of dealers using a country filter or define a quick selection of their favourite dealers in their user administration in MyK2.



"True to our motto 'Connecting Strength', we are using this new interface to connect even more closely with our long-standing sales partners in order to speed up the planning and ordering process. This allows us to create a more convenient data transfer that reduces unnecessary transmission errors and improves collaboration," says Willem Haag, Co-CEO of K2 Systems, commenting on this new function.

More about the connected wholesalers: <https://k2-systems.com/en/company/news/cleverly-connected-k2-base-now-with-a-convenient-interface-to-the-webshops-of-many-wholesalers/>

Image Upload in K2 Base for customised drone images, drawings and plan views

Planners can now upload their own images to K2 Base in all common formats. Satellite images often do not provide the desired quality or buildings are still being planned and therefore cannot be visualised with Google Maps. In such cases, it is helpful to use other image sources. Whether drone and satellite images, construction plans or plan views - they can all now be easily uploaded. This option makes planning easier and more individualised. Roof fasteners and ballastings can be better visualised and calculated - even before the actual construction of the building.

More information: <https://k2-systems.com/en/company/news/new-in-k2-base-use-drone-images-or-your-own-drawings-for-pv-planning/>

D-Dome 6 on trapezoidal sheet metal now plannable in K2 Base

It is now possible to plan the D-Dome 6.10 system for trapezoidal roofs with the K2 BasicRail in the K2 Base software. Until now, the experts at K2 Systems have done this for customers, but now K2 Base users can plan the application themselves. The Dome 6 system is the tried-and-tested K2 substructure for flat roofs. In addition to installation on foil, bitumen or gravel and concrete flat roofs, the K2 Dome 6 Classic has also been able to be installed on roofs with trapezoidal sheet metal cladding for some time. Such roofs are often found on industrial buildings. The K2 BasicRail is used here, which is mounted rotated 90 degrees to the roof pitch so that the modules can be optimally aligned. This can now be calculated in K2 Base. This means that the entire planning process can be completed more quickly. All other variants of the K2 Dome system can be planned as usual via the K2 team of experts.

K2 Base with tile replacement mount from Otto Lehmann

PV professionals designing a photovoltaic system for a pitched roof in K2 Base can now also plan the Otto Lehmann tile. Thanks to the co-operation between K2 Systems and Otto Lehmann GmbH, they now have a solution that meets the requirements of the new technical regulations for roof coverings with roof tiles and concrete tiles issued by the Central Association of the German Roofing Trade (ZVDH). The tile replacement mount is compatible with the K2 SingleRail and the K2 SolidRail. At the same time, planning in K2 Base means that the structural analysis is also available.



Unlimited Project Sharing via K2 Base

To speed up planning, it is now also possible to share K2 Base projects - not only within your own company, but also outside it. A new K2 Base sharing feature enables projects to be shared with several users at the same time. You can choose whether a person can edit the project or only has read-only access.

Info about K2 Base: <https://k2-systems.com/en/digital-services/k2-base/>

Product News

The K2 Buddy - now even easier to install

Severe weather events are increasing as a result of climate change. At the same time, modules are becoming increasingly larger, thinner and sometimes more fragile. The K2 Buddy is a mechanical live monitoring system with an early warning function in the event of imminent module overload due to snow. With this IoT-based system, photovoltaic systems can be monitored to protect the modules by continuously measuring the load using sensors and sending the data directly to the K2 Buddy App for installers and building owners. By initiating measures in good time, damage and yield losses can be effectively prevented. The system is now even easier to install and can be used for module frame heights of 30 to 35 millimetres. As a further advantage, K2 Systems offers an extended warranty on the mounting system from 12 to 20 years if customers use the K2 Buddy weight tracker and the system is recorded in the K2 DocuApp. The K2 Buddy is available for delivery and can be planned directly in K2 Base.

More about the K2 Buddy: <https://k2-systems.com/en/digital-services/k2-buddy/>

Expansion of the K2 Dome System family with K2 D-Dome 6.15 Xpress

K2 Systems has expanded the successful K2 Dome series for flat roofs to include a 15 degree D-Dome variant in response to many customer requests. The 15 degree elevation, instead of the conventional 10 degrees, means that more modules can be installed per square meter and therefore more output can be achieved. The higher angle of inclination also improves the self-cleaning effect of the modules. The well-known advantages of a double-sided elevation continue to benefit: the roof surface is thus optimally utilised and ballasting can be reduced.

New in the programme: K2 D-Dome 6.10 Lifted LS

The experts at K2 Systems have developed the D-Dome 6.10 Lifted LS system for a special application. The D-Dome 6.10 Lifted LS can be used on roofs with Sika PVC films where the distance between the roof cladding and the PV system should be five centimetres. The mounting system is lifted by the roof membrane using a special construction with the K2 SingleRail 50 as the base rail and an anchor from Sika. Thanks to the modular design principle, this solution can be realised with familiar components from the SingleRail family. Another advantage: the drainage is not obstructed. This special solution is made possible by close co-operation with Sika. The advantages can be utilised very well on roofs with limited load reserves and to help compensate for unevenness on roofs.



More about the K2 Dome line: <https://k2-systems.com/en/product-solutions-category/flat-roof-systems/>

K2 GreenRoof Vento: Plant-friendly PV ideas for green roofs

Green roofs are very popular. They have been proven to improve the climate in cities. They retain rainwater, insulate walls, reduce noise and cool on hot days. The K2 GreenRoof Vento PV mounting system enables plants to grow healthily on green roofs without shading the PV modules. The tried-and-tested K2 Systems modular principle enables elevation in portrait and landscape at 10 and 15 degrees with maximum module sizes of 2,400 mm x 1,350 mm. The system is already available and can be planned in K2 Base.

More information: <https://k2-systems.com/en/company/news/greenroof-vento-be-green-be-safe-be-powerful/>

K2 MiniRail 60 – for more distance between module and trapezoidal sheet metal

The K2 MiniRail is a proven short rail system for trapezoidal sheet metal roofs. With the new K2 MiniRail 60, the 60 millimetre height creates a greater distance between the module and the trapezoidal sheet metal. This means that optimisers and micro inverters can be installed underneath. The greater distance has a further advantage: the rear ventilation is improved and thus a higher module output is achieved. The new rail will be available from July 2024 and can already be planned in K2 Base.

New façade systems - more surfaces for photovoltaics

Earlier this year, K2 Systems launched three new façade systems on the market that enable photovoltaic systems to be installed quickly on façades. The scalable modular components are particularly suitable for large-scale PV systems on industrial or commercial building façades:

- K2 WallPV FacadeRail for façades made of solid masonry or concrete. This variant also works for curtain wall façades with a thermal insulation composite system (ETICS) underneath.
- For façades with sandwich panels from Fischer Profil, which already have integrated thermal insulation, the K2 WallPV CarrierRail has a general building authority approval (abZ).
- For façades made of trapezoidal or corrugated sheet metal, the proven K2 WallPV MultiRail can be used for roof installations. The connecting unit and mounting rail are a single component.

More information: <https://k2-systems.com/en/product-solutions-category/wallpv-facade-mounting-systems/>

Innovation: Fourth façade solution developed for ETICS

In cooperation with Reisser Schraubentechnik GmbH, the developers at K2 Systems have developed another solution for masonry and concrete façades with external thermal insulation composite systems (ETICS). This type of insulation is particularly common in existing buildings, such as apartment blocks. Previously, where external thermal insulation composite systems were installed on the façade, the insulation first had to be removed in places in order to attach the substructure. In contrast, the RDS-CA spacer screw from Reisser - or comparable screw solutions - can now be used to drill directly through the insulation and fix the K2 WallPV MultiRail system to the concrete. This



saves work steps and therefore valuable time. The screw is suitable for different insulation thicknesses and can be individually adjusted.

K2 Carports: great flexibility meets minimal effort

Efficient land utilisation is necessary in order to implement the planned expansion of PV in Germany, for example. In its recently adopted Solar Package 1, the German government reaffirmed its ambitious target of 215 gigawatts (GW) for photovoltaics by 2030. The annual expansion is to be tripled - from 7.5 GW in 2022 to 22 GW in 2026. Planning and expansion are to take place roughly equally on roofs and on the ground. Further sealing of soil should be prevented as far as possible. Car parks are therefore ideal for the installation of PV systems. Other countries and German federal states have legal requirements for the construction of PV carports on car parks. In Baden-Württemberg, for example, a carport PV system must be built for car parks with 35 parking spaces or more as of 2022.

The K2 carport solution can be installed in double rows or single rows with the modules mounted in portrait orientation. Installation is possible on the trapezoidal sheet metal, and also without it, for example, bifacial modules are to be used. The modular system is ideal for projects with more than 30 car parking spaces. It can be colour customised. As a single-support system, it has the advantage that fewer obstacles need to be taken into account when parking or opening doors, which makes parking more convenient. The PV carports are planned by K2's team of experts; interested parties can find an enquiry form on the company's website.

<https://k2-systems.com/en/contact/help/>

K2 N-Rack: Simple, modular ground mounted solution with system

The K2 N-Rack is a simple, modular ground mounted system with an elevation of either 15 or 20 degrees. The system can be anchored in concrete or directly in the ground. The combination of steel and aluminium combines the advantages of pile-driven foundations with the functionality of aluminium components. This makes it possible to react quickly and easily to unevenness during installation. The lightweight material facilitates ergonomic working.

K2 N-Rack is suitable for small and medium-sized installations. Three rows of portrait modules can be installed per table with a 15 degree elevation on the basis of ram foundations, and two rows of modules at 20 degree. In the case of concrete foundations, the 20 degree elevation can be realised with two rows of portrait modules per table. All components are, of course, statically optimised for each other.

More information: <https://k2-systems.com/en/product-solutions/k2-n-rack-system/>

More news from K2 Systems

New Location in Renningen

K2 Systems opened its state-of-the-art logistics centre in Malmsheim, a district of Renningen, in March and relocated its headquarters to Haldenstraße 1 there on May 1st. The 7,500 square metre



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building can accommodate more than 10,000 pallets. It has been certified by the German Sustainable Building Council (DGNB). A photovoltaic system with 1,566 modules on the roof and 150 modules on the façade supply the logistics centre and the adjacent office building with their own solar power - the total installed capacity is 736 kWp.

More information (in German): <https://k2-systems.com/unternehmen/news/hoch-die-stapler-unser-neuer-firmensitz-ist-eroeffnet/>

Sustainability is part of the company's DNA

Sustainability is a top priority at K2 Systems: Every day, the photovoltaic systems installed with K2 mounting systems generate 110 GWh of green electricity worldwide - roughly equivalent to the output of 11 coal-fired power stations. The aluminium used for K2 products consists of 75 percent recycled material. The energy required to produce recycled aluminium is only five percent of that required for primary aluminium. The company also manufactures 85 per cent of its products in the European Union. "That is important to us. We want to comply with EU quality, environmental and social standards and support local production; this is a political statement," explains Katharina David, Co-CEO of K2 Systems.

"Our trade fair motto at Intersolar 'Celebrating 20 Years of Connecting Strength' makes it clear: We have been reliably linking innovations with products for 20 years in order to develop new and better solutions. We combine physical products with digital service tools that are helpful for planners and also live this idea in our collaboration with our partners and within the company." K2 Systems employs people from 40 nations and 32 languages are spoken in the team. "This diversity and our experience are our strengths," says David confidently.

More about the ESG factors at K2 Systems: <https://k2-systems.com/en/company/commitment-sustainability/>

K2 Systems GmbH is one of the world's leading manufacturers of photovoltaic mounting systems with decades of experience. Founded in 2004 and headquartered in Renningen near Stuttgart, the company offers universal components for flat and pitched roofs that are easy to install, durable and safe. The company's portfolio also includes mounting systems for façades, outdoor areas and carports. Digital services, such as the K2 Base planning software, support the process, making PV projects quicker and easier.

K2 Systems develops in Germany, manufactures predominantly in Europe and focuses on a sustainable procurement strategy. PV systems with K2 substructures are in use in over 130 countries and generate approximately 110 GWh per day. The heart of its strategy is the development of easy-to-install mounting systems that are precisely tailored to the needs of customers. With around 420 employees at twelve global locations and in close cooperation with international partners, the company is working towards the vision of global electricity generation from solar energy. This is how K2 Systems is driving the energy transition.

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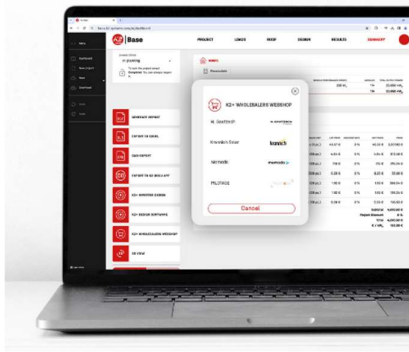
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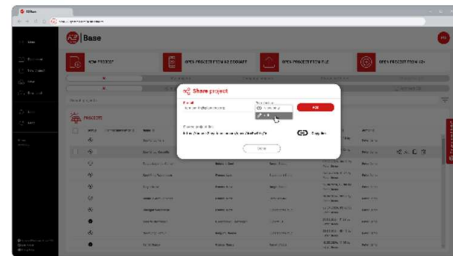
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Here is a selection of images, further photos and graphics for download can be found at <https://k2-systems.com/en/company/press-media/>

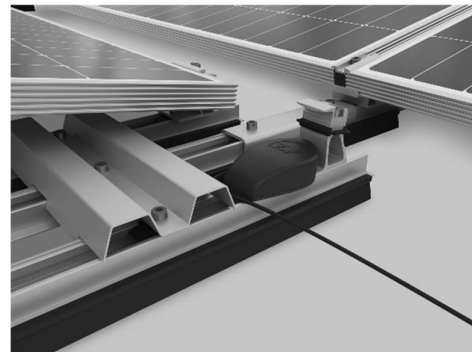
K2+ Connections to Distributor Webshops



Project Sharing via K2 Base



K2 Buddy





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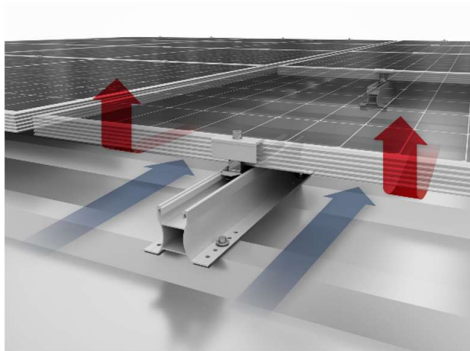
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