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PHOTOVOLTAIC INDUSTRIES

PRESS RELEASE

Liebenfels / December 19, 2019

Photovoltaics wholesale: Krannich Solar opts for Energetica modules from Austria

As of now, the high-performance modules of Energetica Photovoltaic Industries are also available from Germany's Krannich Solar Group, Europe's leading photovoltaics wholesaler.

Production at the newly opened Energetica site in Liebenfels/Austria started in September. The aim is to produce over one gigawatt (1000 MW) of PV module output annually on fully automated production lines. Production should be running 24/7 in five-shift operation from the end of January 2020.

Energetica is therefore very pleased about the distribution partnership with Krannich Solar that has already been agreed upon. Krannich will initially take over two products from the Energetica portfolio:

e.Basic P

PV module with 60 dark blue polycrystalline cells which deliver up to 305 Watt peak. An all-round module with outstanding efficiency levels which is ideally suited for large commercial rooftop systems and open spaces as well as for the private sector.

e.Classic M

PV module with 60 black monocrystalline cells which generate up to 325 Watt peak production power. High performance combined with aesthetics, specifically designed for private homeowners.

Both product series rely on Energetica innovations and state of the art in the photovoltaics sector:

Energetica's patented **e.ISP technology** (Energetica Integrated Shadow Protection, highly efficient control electronics integrated in the laminate) replaces the bypass diodes previously used in the standard junction boxes. This guarantees a higher power yield than with conventional modules in both sunlight and shading. e.ISP also protects the cell strings of the module by shutting down more precisely when shading occurs.

12-busbar technology for higher efficiency: the energy generated is conveyed via 12 extremely thin wires, instead of the previously wide busbars on the front of the cell. As a result, the cell surface is used more effectively and the energy yield increases for the same module size.

e.STAK, the robust and, above all, environmentally friendly stacking and packaging system from Energetica also guarantees that the modules arrive intact at their destination without micro-cracking stress and can be commissioned without further technical aids.



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Jan Brunner, Head of Sales at Krannich Solar GmbH & Co. KG, said at the start of the collaboration, "By adding Energetica to our portfolio, we can offer our customers products that respond to current trends in the industry due to their flexibility in use combined with a large number of technical innovations. State-of-the-art production in Europe ensures high quality and helps build confidence in the brand among end customers. We expect this to generate further growth in many European markets and beyond."

Rene Battistutti, CEO Energetica, said when the collaboration began, "As the largest European quality manufacturer, we at Energetica are very proud to be included in the Krannich range. While other manufacturers have stopped their production in Europe, Energetica has shown courage and invested heavily in new technologies and automation. As one of the largest international wholesalers with very good market penetration and with excellent contacts in over 23 countries, Krannich Solar has really been our preferred partner for some time now. We particularly appreciate Krannich's actual proximity to the market in all these countries which is achieved through an extensive network of branches and on-site services. Krannich is also consistently expanding its online trading activities. This is an indispensable engine for international growth in the current PV industry. We are therefore looking forward to a successful, long term partnership with Krannich Solar.

About Krannich: Krannich Solar is a leading photovoltaics wholesaler and system supplier in Europe. The owner-managed company supplies PV installers with solar modules, inverters, mounting systems, storage systems, e-mobility and equipment for PV system monitoring and accessories. The corporate group is represented by 24 companies in 23 countries and employs over 450 people. Its headquarters are located in Weil der Stadt/Hausen, near Stuttgart.

About Energetica: Energetica Photovoltaic Industries was set up in 1995 by CEO Rene Battistutti. The new factory in Austria, which has a production capacity of more than one gigawatt solar module output (equivalent to around five million m² of module area), is operating at full capacity at industry 4.0 level. This currently makes the plant in Liebenfels not only the largest production plant for solar modules in Europe in terms of capacity, but also one of the most modern plants in the world.

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About Energetica Photovoltaic Industries

Energetica is an independent Austrian photovoltaic technology company and in terms of capacity is the largest producer of highperformance photovoltaic modules in Europe. The company has around 25 years of experience and is one of the industry's technology leaders. More than one gigawatt of solar module output is manufactured each year at the site in Liebenfels/Carinthia. That equates to around five million m² of PV module surface area. A proprietary research and development centre is linked to the Industry 4.0-level, state-of-the-art production facility. The plant is a true zero emission factory: among other things, a 2.7 MWp photovoltaic power plant supplies the production process with self-sufficient and climate-friendly electricity. All new production equipment was delivered by rail in an environmentally friendly manner. There are also plans to supply the modules from the company's own private rail siding.