

Press Release – October xy, 2022

## ASCA and Raynergy Tek are strengthening their partnership

In conjunction with the opening of their new production line, Raynergy Tek – world leader in organic semiconductor chemistry – and ASCA – an ARMOR GROUP company, the organic photovoltaics (OPV) global leader – are strengthening their long-lasting partnership through signing an extended cooperation agreement. On this occasion, an ASCA OPV structure has been installed at the new production premises of Raynergy Tek in Taiwan. In order to manifest the progress made together in the last years, the companies have signed a Memorandum of Understanding with the objective to upscale Raynergy Tek's newest semiconductor materials. To meet the growing demand for OPV, Raynergy will commission the new production line in November this year.

ASCA is currently finalizing the industrialization stage of the new generation of its solar solutions that will be on the market by the beginning of next year. By using non-fullerene acceptor-based organic semiconductors and a new generation of hole transport layer – both manufactured by Raynergy Tek – ASCA has achieved significantly higher efficiency. Through extensive optimization, the ASCA® product now achieves a power beyond 70 watts per square meter while maintaining its durability. This is a 40 percent power increase compared to today's industrial product.

In order to further improve the performance, ASCA and Raynergy Tek have agreed to cooperate on the long-term optimization of the existing materials and the integration of new materials, developed by Raynergy Tek. Raynergy Tek has therefore inaugurated an innovation center for semiconductor materials in April 2022. Aiming to develop the OPV market together, ASCA and Raynergy Tek are now renewing and extending their collaboration with a strategic production and commercialization partnership.

### Partners from laboratory to commercialization

"We are very optimistic about the market growth of green sustainable energy solutions like the ones from ASCA®. In order to be in line with the demand of customers all over the world, Raynergy Tek has committed to further expand its production capability from two to four lines, which will be ready to operate in Q4 of 2022. Each line is expected to produce 20 kilograms of organic semiconductor material per year to ensure a stable supply for ASCA," Benny Lin, Vice President of Business Development of Raynergy Tek, says.

"Raynergy Tek and ASCA have common goals to bring the OPV business to the next level. To do so, we are strengthening our cooperation on new materials at the cutting edge of R&D and industrialization. This way we can establish a clear roadmap for the next generations of ASCA® modules from laboratory to commercialization," Dr. Sebastian Meier, Vice President of Corporate Development and Technology at ASCA, adds.

ASCA and Raynergy Tek have been working closely together since 2014. In 2021, the companies entered into a partnership agreement to strengthen their joint developments, which is now taken into a wider agreement for the future.

Press Contact:  
Iris Krampitz, Yvonne Hornemann  
contact@pr-krampitz.de | +49 (0)221 912 49949



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**ASCA** designs and develops intelligent, tailor-made, flexible and low-carbon solar energy solutions on an industrial scale for its international partners. Its team of experts of sixty people is spread over France and Germany. ASCA is a company of ARMOR GROUP. The ARMOR GROUP specializes in the industrial formulation of inks and the coating of thin layers onto thin films. The Group is the global market leader in the design and manufacture of thermal transfer ribbons for printing variable traceability data on labels and flexible packaging. With an international presence, ARMOR GROUP has nearly 2,500 employees in some 20 different countries. In 2020 it posted annual revenue of €372m. [www.asca.com](http://www.asca.com)

### About Raynergy Tek

Raynergy Tek is a chemical leader that develops high performance proprietary organic semiconductors with focus on capability in tuning the absorption wavelength ranging from visible to Infrared regions, focusing on emerging applications such as flexible and semitransparent organic photovoltaics, next generation image sensors, large area fingerprint sensors and biometric sensing. Raynergy Tek holds more than 270 patents worldwide. Raynergy Tek provides total solution materials products including the proprietary photoactive layer and electron or hole transporting layer.