



Press Release – October 11, 2021

Organic Solar Films for any application Solar tree from ASCA supplies e-bike stations with environmentally friendly energy

Löchgau, October 11, 2021. The ASCA® solar films can be used in a wide range of applications – from individual small projects to facades in commercial housing construction. In the community of Löchgau in Germany the company has designed, conceived and implemented a solar tree for the construction company STRENGER Bauen und Wohnen.

The solar tree produces electricity for the e-bike charging stations of three apartment buildings for senior-friendly living. *“The project demonstrates how flexible our solar films are. With conventional technology, the individual shapes of the solar modules would not have been feasible,”* explains Hermann Issa, ASCA Senior Vice President of Business Development & Project Management, who also designed the solar tree. The approximately 2.5-meter-long solar modules of the six-meter-high installation are made of organic solar films. ASCA laminated these with polycarbonate in cooperation with BGT Bischoff Glastechnik.

Solar power from flexible films

ASCA prints the organic photovoltaic cells (OPV) onto thin films using a special process. Green OPV films were used for the solar tree. They can also be produced in blue, red and gray. The flat steel components of the solar tree were manufactured by the Kirchknopf metalworking shop, which also handled the on-site installation. *“The overall design of solar modules and steel elements takes up the formal language of the surrounding buildings’ design and reflects the innovative character of the residential complex,”* is how Issa describes the design.

In addition to designing the system, ASCA also planned the system integration. The solar tree stands on the ceiling slab of an underground parking garage, where the other system components, such as the inverter, are located. If no e-bike is connected to the charging station, the electricity is used for the general power of the underground garage and the outdoor area. *“At STRENGER, we always like to implement innovative projects and venture into uncharted territory,”* explains Maren Gerhäuser, who was in charge of the solar tree at STRENGER. *“To implement a tree that provides energy, we found an excellent partner in ASCA, who had already created a concept proposal for us after only two meetings. Our cooperation with ASCA was excellent as it also was with the Kirchknopf metalworking shop, which supplied the “trunk” and the “branches” of the tree,”* Gerhäuser continues. The energy tree was created as part of a competition held by Löchgau.

ASCA accompanied the project with a video camera:

https://www.youtube.com/watch?v=3_RwJZdMID8

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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 fifty people is spread over France and Germany. ASCA is a company of ARMOR Group. ARMOR 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 has nearly 2,000 employees in some 20 different countries. In 2020 it posted annual revenue of €274m. www.asca.com



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About the STRENGER Group:

As an innovative market leader in the southwest, the family company STRENGER can look back on a successful company history of almost 40 years. The STRENGER Group has three core brands: STRENGER Bauen und Wohnen stands for exclusive condominiums and well thought out housing concepts. In the regions of Stuttgart, Munich, Frankfurt and Hamburg, BAUSTOLZ realizes cleverly planned terraced houses and apartments at a fixed price. The company WOHNSTOLZ is the partner for rental apartments and manages the company's own real estate portfolio. Comprehensive service, building management, brokerage and renovation services complete the offer of the STRENGER Group. The Karl and Ingrid Strenger Foundation has been involved in helping the homeless, nature conservation, and education since 2001.

A PDF of the press release and images can be found at the following link:

https://pressedownload.pr-krampitz.de/20211011_ASCA_EN.zip



Nine solar foils from ASCA supply the e-bike charging station with solar electricity.

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