

Press release

Electricity for electronic vehicles: Environmental Campus Birkenfeld refuels with solar power

IBC SOLAR and KLE Energie GmbH build solar carports with fast charging stations

Bad Staffelstein / Germany, December 17, 2019 – IBC SOLAR AG, a global leader in photovoltaic (PV) systems and energy storage has established a “zero-emission mobility center” in Hoppstädten-Weiersbach (Rhineland-Palatinate) together with KLE Energie GmbH. The heart of the project are three solar carports for electric vehicles on the Environmental Campus Birkenfeld. Here, photovoltaic modules from IBC SOLAR supply e-vehicles at Trier University of Applied Sciences with environmentally friendly solar power. An energy management system that covers peak loads together with a commercial power storage unit is also involved.

Electro mobility is one of the key technologies for the reduction of CO₂ in cities. But even in rural areas, it can become a successful model. This is proven by the project "Zero Emission Mobility Center" at the Environmental Campus Birkenfeld of the University of Trier. For this, the university had solar carports and charging stations built. Solar power is used for the energy generation. A total of three carports with a capacity of 96.6 kilowatt peak (kWp) were installed on the campus. A further carport with around 4 kWp is also located at the station in town. In order to charge the universities electronic vehicles with energy, the campus has two DC fast charging stations, each with 75 kW charging power, and an AC charging station. Another AC charging station is also located at the train station. The public charging stations are mainly used for the electric service vehicles of the university. In addition, around 15 public and private electric vehicles are currently in regular use at the Birkenfeld Environmental Campus.

For the planning and implementation of the project, KLE Energie GmbH relied on the support and energy solutions of its cooperation partner IBC SOLAR. “We attach particular importance to planning an optimally coordinated photovoltaic system. In addition, we only use high-quality components, such as those from IBC SOLAR,” says Henning Lorang, Managing Director of KLE. A total of 375 modules from IBC SOLAR's own brand were installed on the roofs of the solar carports.

Up to 1,000 tons less CO₂

Each year, the solar carports will generate around 96,000 kilowatt hours (kWh) of energy. This means that around 900 tons of environmentally harmful CO₂ will be saved over an operating period of 20 years. Over the next 20 years, the Environmental Campus Birkenfeld will be able to

reduce its electricity costs with the help of solar carports. In addition, there is the saving for the so-called peak load capping (peak shaving). An energy management system (EMS) with a battery storage system helps to smooth out consumption peaks with particularly high electricity demand at the carports. If the capacity of the battery storage is insufficient, the charging stations are dynamically controlled by the EMS. This avoids high electricity procurement costs and relieves the load on the power grid.

"The project demonstrates to what extent solar systems combined with an intelligent energy management system, storage and e-mobility can contribute to achieving our climate protection targets. And not only in urban regions, but also in rural areas," says Udo Möhrstedt, CEO and Chairman of the Board of IBC SOLAR AG.

About IBC SOLAR

IBC SOLAR is a leading global provider of photovoltaic and energy storage solutions and services. The company offers complete systems and covers the entire product range from planning to the turnkey handover of photovoltaic systems. The product range comprises solar parks, self-consumption systems for commercial enterprises and private households, off-grid photovoltaic systems and diesel hybrid solutions. As a project developer and general contractor, IBC SOLAR implements and markets major solar projects worldwide. The manufacturer-independent system house guarantees the highest quality for all projects and has currently implemented photovoltaic systems with an output of 4,2 gigawatts worldwide. IBC SOLAR works with a close network of Premium Partners and supports them with their own software tools for planning and designing grid-connected systems including storage systems. IBC SOLAR offers customised packages for energy providers, municipal utilities and providers of photovoltaic solutions. The company ensure the best possible output of solar parks through technical management and monitoring.

IBC SOLAR was founded by Udo Möhrstedt in Bad Staffelstein in 1982 who has managed the company as the Chairman of the Executive Board to date. The system house is a pioneer of the energy turnaround in Germany and is especially committed to energy cooperatives with its own planned public solar parks. The company is active internationally with numerous regional companies, sales offices and partner companies in more than 30 countries.

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