

CARBON AND ISC KONSTANZ VALIDATE THEIR TECHNOLOGY PARTNERSHIP

Shortly after the announcement of an industrial partnership with the midcap ACI Group, the start-up CARBON, undertaking a solar PV gigafactory project in France, confirms its technology agreement with the International Solar Energy Research Center (ISC) Konstanz on solar energy, recognized developer of TOPCon and IBC technologies.

This partnership will enable CARBON to offer the latest generation solar cells using the rapidly developing TOPCon technology, of which ISC Konstanz is one of the main developers in Europe. The research center will be responsible for driving the technology choices and designing the first steps of the manufacturing processes.

TOPCon is the fastest developing high efficiency solar cell technology and is expected to become the standard in the industry in the coming years. According to most analysts, the world's major solar manufacturers are expected to switch from industry standard PERC cells to TOPCon technology within the next few years. TOPCon (Tunnel Oxide Passivated Contacts) is a technology that aims at reducing recombination losses from the metal contacts and the silicon surface of cells: it uses a thin oxide layer, in addition to heavily doped polycrystalline silicon between metal contacts and the wafer.

ISC Konstanz not only develops the latest solar cell technologies, but also investigates state-of-the-art module manufacturing processes that help their customers and partners to produce high-quality, efficient, and sustainable solar PV modules. The focus here is on simple and cost-effective production and the longest possible product lifetimes in order to achieve the lowest possible levelised cost of electricity (LCOE) for the end-customer.

*"The need for a dynamic and competitive solar industry in Europe has never been more important than now", says **Radovan Kopecek, Co-founder and Director of ISC Konstanz.** "We believe that TOPCon Technology is the first step towards European industry renaissance, and we work hard already on the next evolutions."*

*"We are honoured and very happy to partner with ISC Konstanz. Their technological expertise is essential for the design of CARBON's manufacturing process", says **Pascal Richard, president and co-founder of CARBON.** "With ISC Konstanz at its side, CARBON can rely on the know-how of a European level institute to develop and produce the PV cells and modules of the future."*

CARBON aims at producing, 5 GW of solar PV modules from 2025 and ramp-up rapidly its gigafactory to 20 GW from 2030. This will involve billions of EUR of investments and the creation by 2025 of 2,000 direct jobs and 4,000 indirect jobs.

The start-up company is supported by an independent shareholders' base and an expert team combining entrepreneurs, industrialists, engineers, researchers, consultants, energy infrastructure and solar PV energy professionals. All are convinced that the energy transition is the key to tackle climate change, to create local jobs and to support rebuilding an entire industrial sector.

About CARBON:

CARBON undertakes a photovoltaic panels gigafactory project on a European scale based in France. Its partners include the international research center on solar energy ISC Konstanz (Germany) as well as the Becquerel Institute (Belgium & France) with which it collaborates on technological aspects, competitiveness and market access. **CARBON intends to master a large part of the value chain, from the ingot to the module, including the wafer and the cell.** It is committed to manufacturing and marketing on a large scale competitive, high-performance, reliable, sustainable low-carbon solar PV products.

Our mission: Contribute to the re-industrialisation, strengthen European energy sovereignty, and participate in our energy independence and the decarbonisation of our economies.

Our goal: to join the world's top 10 solar cell and module manufacturers by 2030.

www.carbon-solar.com

About ISC Konstanz:

International Solar Energy Research Center (ISC) Konstanz, founded in 2005, is a private research institute specializing in the research and development of crystalline silicon industrial solar cells, modules and systems. Currently 65 employees are dedicated to reduce production costs and increase the efficiency of solar technology. Since 2014 ISC Konstanz is also involved in technology transfer of its device "technology zoo". The solar cell concept co-developed with BOSCH Solar followed by further own developments, were transferred to many companies in and outside of EU. Average solar cell efficiencies on industrial solar cells exceeding 24% and modules efficiencies exceeding 22% are reached in production.

In addition ISC recognizes the importance of promoting the use of PV technology. ISC provides advanced training for experts in PV, offer internships and study visits to our labs for schools, as well as organize specialized workshops on emerging PV technologies.

www.isc-konstanz.de

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