



# Press Release

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## **Synova and RENA have formed joint venture - New LCP technology increases the efficiency of solar cells**

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Synova SA of Ecublens, Switzerland and RENA GmbH Gütenbach Germany have formed a joint venture for the further development of the LCP (Laser Chemical Processing) based technology. RenaSynova Wet Laser GmbH, located in Freiburg, Germany, will be responsible for product development and manufacturing.

RENA is world market leader for the wet chemical processing of solar cells.

Synova is proprietor of the liquid-jet-guided laser technology used in several high-tech industrial sectors.

The LCP technology for photo-voltaic applications was developed in cooperation with the Fraunhofer Institute ISE in Freiburg, Germany. This LCP technology, which forms the basis for the RENA selective emitter, increases the efficiency of solar cells by absolute 1%, for example efficiencies of 18% instead of 17%.

This increase in efficiency represents a significant step towards achieving grid parity. In other words, grid parity compares equivalent costs between classic power plant mix and photovoltaic energy generation.

With the combination of LCP and RENA's existing electroplating technology, contacts can be narrowed by more than 50% than the existing ones. This enables a larger surface for capturing light in solar cells.

The aim of this joint venture is in the effective, joint development of the LCP process technology and the implementation manufacturing plants suited for mass production.

The sales and service of the new product will be taken over exclusively by RENA. With the combination of LCP & electro-plating, RENA succeeds in entering the so-called back end of solar cell production. There are already several orders for the new plant facilities.

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Synova Laser Technology

**Where others see impossibilities, we see solutions**