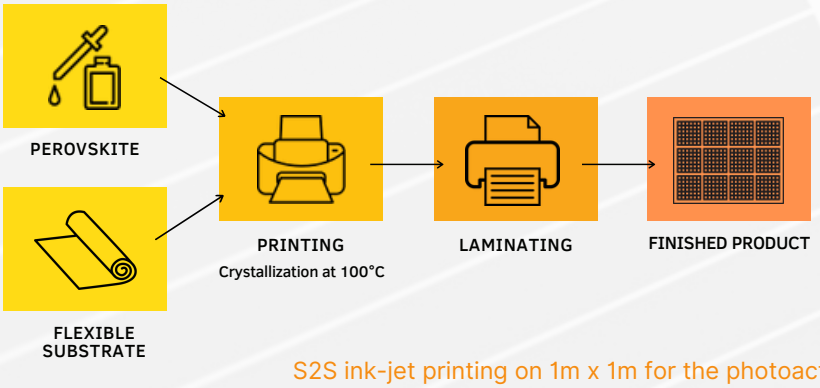
SAULE TECHNOLOGIES

THE NEW GENERATION OF FULLY PRINTED SOLAR CELLS

Saule Technologies is a pioneer in the research and production of new-generation perovskite photovoltaics printed on thin, lightweight, flexible foils. Due to their properties, perovskites significantly exceed the range of possible applications compared to traditional silicon PV.

The Team consists of scientists, engineers and administrative staff from various countries, who work in the R&D centre with the first perovskite PV production line in the world and one of the best-equipped optoelectronic laboratories in Europe.

CELLS PRODUCTION TECHNIQUE



The obtained solar cells are:

- Able to generate energy in both sunlight and artificial light
- Effective in low-light conditions
- Environmentally-friendly
- A simply perfect power source for consumer electronics, BIPV, BAPV, and much more

S2S ink-jet printing on 1m x 1m for the photoactive and charge transport layers

Multiple layers of high quality semiconductors are deposited from orthogonal green solvents

S2S screen printing on 1m x 1m for the back contact of the photovoltaic modules

Carbon-based electrodes for lower cost, environmental impact and longer device lifetime

EXCEPTIONAL FEATURES

- Ultra-thin
- Flexible
- Customizable
- Radiation tolerant
- Printed in ambient conditions
- Light-weight

BROAD APPLICATION POSSIBILITIES

From consumer electronics to BAPV, BIPV and transportation - everywhere, where the silicon-based PV stands no chance.

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Saule S.A, 11 Dunska Str., 54-427 Wroclaw, Poland

HIGH PERFORMANCE INDOORS AND OUTDOORS

Record high power conversion efficiency values of Saule perovskite power cells:

31%
R&D
Indoor, low light

20%
Production line
Indoor, low light

18%
Outdoor target at utility-scale line

COMPETITIVE ADVANTAGE

- Already developed product and technology, ready for sale and commercialization
- Strong IP Portfolio, valued at EUR 40M
- Validated production process: IEC certified (IEC TS 63163 Cat. 1) and approved for application in consumer electronics by TUV Rheinland
- Unmatched solar cell features
- Proved records of successful trial perovskite installations in B2B

GROWTH GOALS

- The current production line upgraded to the capacity of 5 000 000 perovskite solar cells for IoT devices/year
- Building a new, large-scale production line with a throughput of 351 000 m2 of power solar modules/year, which is an equivalent of 175 500 000 power cells for IoT devices (with an optionality to switch for large-scale outdoor panels production) by the end of 2026
- Obtaining Certifications IEC 63163 Categories 2 and 3, ISO9001, ISO 14001
- Increasing number of patents and broadening IP portfolio
- Creating sales and marketing pipeline focusing on high margin market segments

THE ASK

Saule successfully leveraged public funding to achieve high technological readiness level with a fairly low amount of private investment and is now seeking to commercialize.

We are looking for a major strategic or an institutional investor, that will help us to commercialize our technology and make it available to the wider audience.

We already have a ready-to-sell product and ready-to-replicate production technology; now our ambition is to increase the production capacity and to start generating significant revenue.

FUNDRAISING TARGET

Financing needs:

- CAPEX of the large-scale production line and upgrading the existing pilot line
- Ongoing R&D work
- Working capital

Seeked investment:
EUR 200 M

The last funding round before turning into profits.

Time frame:
Closing transaction by the end of August 2024

They trusted us: H.I.S. Co., Ltd., Columbus Energy S.A., DC24, Aliplast, SKANSKA, Żabka sp. z o. o.

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