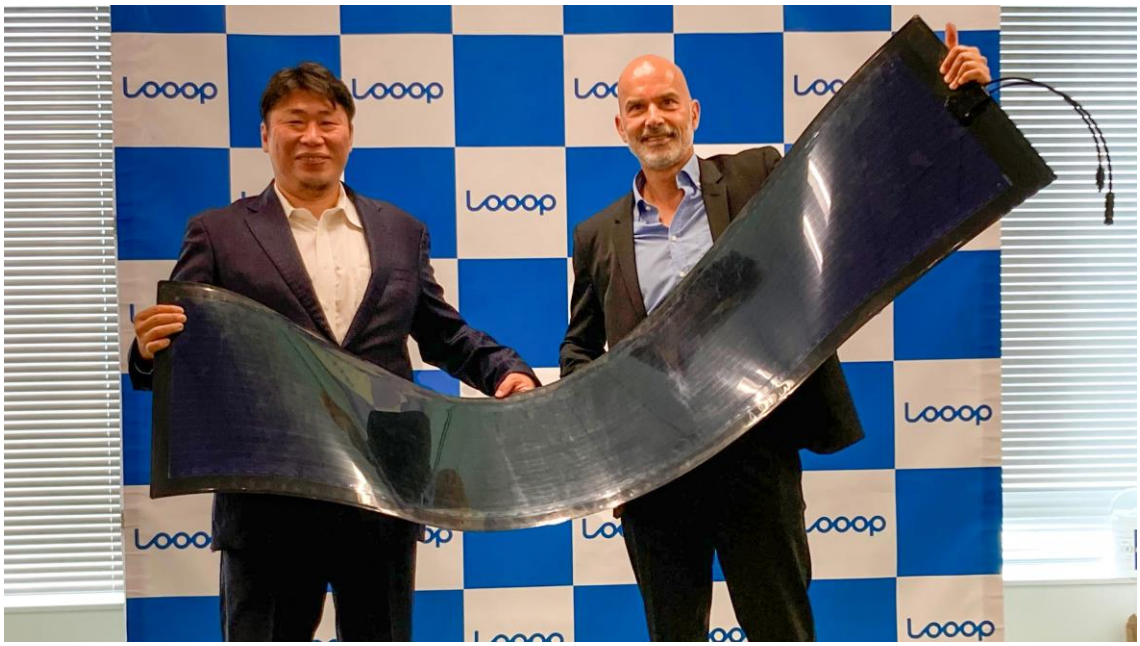
Heliatek
The future is light

Press Release/Pressemitteilung

Heliatek and Looop announce exclusive partnership to market and install award winning organic solar films in Japan

Expanding the Installed Area of Renewable Energy with Ultra-Lightweight Bendable Solar Films, Promoting Decarbonization with record-low CO2 footprint



Heliatek CEO Guido van Tartwijk and Looop CEO Soichiro Nakamura at the signing ceremony

Tokyo, 26.08.2022

Heliatek GmbH (Headquarters: Dresden, Germany; CEO: Guido van Tartwijk; hereinafter referred to as "Heliatek"), a global leader in the development and manufacturing of organic solar films with a mission to provide an independent green future for everyone, and Looop Inc. (Headquarters: Taito-ku, Tokyo; President and CEO: Soichiro Nakamura; hereinafter referred to as "Looop"), an energy service provider focusing on renewable energy, announce today an exclusive partnership to market, deliver, and install the award-winning Heliatek products throughout Japan.

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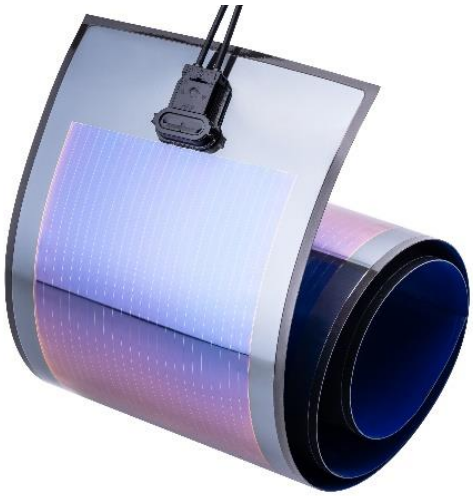

「HeliaSol® 436-2000」

Lightweight and Flexible Solar Films to unlock Solar Potential

Heliatek's solar film HeliaSol® is ultra-light, flexible and ultra-thin and with a carbon footprint of less than 10 g CO2e/kWh one of the greenest energy generation technologies. Through its integrated backside adhesive, it can be easily applied to a variety of surfaces without the requirement of a substructure. This makes HeliaSol the perfect solution for applications that could not be imagined with conventional PV solutions because of weight or surface restrictions. There is a huge potential of building rooftops with limited load bearing capacities, façades, rooftop materials that may not be penetrated or non-straight building shapes. Therefore, the solar films can help accelerating the solar deployment by accessing unused surface potential in Japan to promote decarbonization and Green Transformation (GX).

Power Generation Equivalent to CIS

Heliatek's organic thin-film solar cells have the highest power generation efficiency among those available for mass production. Looop has conducted Japan's first demonstration test of organic thin-film solar cells in an industry-academia joint research project with Ritsumeikan University since October 2020 and confirmed that they have the same power generation capacity as CIS (Copper indium Selenium) solar modules that are already in practical use.

Reduction of Environmental Impact

With a carbon footprint of less than 10 g CO2e/kWh[1], HeliaSol is based on the greenest of all solar technologies. HeliaSol does not contain of toxic raw materials like heavy metals and does not use any scarce materials. Even the disposal at the end-of-life is easy and environmentally friendly[2]. With HeliaSol, CO_2 savings start more than 10x times earlier[3] than with

inorganic solar solutions, basically within just a few months! HeliaSol is the solar solution for the future, independent from raw material scarcity challenges, and fundamentally green.

Sales will commence in Japan by the end of this fiscal year, after successful completion of the required IEC4 certifications.

[1] This result is based on an independent Life Cycle Assessment (LCA) done by TÜV Rheinland.
[2] Disposal regulation vary from municipality to municipality.
[3] Source: https://www.heliatek.com/en/technology/sustainability/ based on LCA by TÜV Rheinland
[4] IEC certification...certification as an international standard in the field of electrical and electronic technology as defined by the International Electrotechnical Commission (IEC).

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The representatives of both companies commented on the collaboration as follows.

“We are very pleased to be teaming up with Looop for marketing and delivering our innovative solar films to Japanese customers. Our HeliaSol products deliver an immediate independency from grid price variations and are perfectly suited for roof tops and facades that are unfit for normal solar panels. We believe that together with Looop we can further accelerate the green transition in Japan, because HeliaSol unlocks the surface potential in the heavy urbanized areas and is perfect fit for buildings that are not allowed to carry normal heavy solar panels, because of typhoon regulations for example. We are looking forward to working with Looop to leverage our knowledge and experience to promote our products in Japan as a solution to the challenge of introducing renewable energy to start decarbonization more than 10 times faster than with regular solar solutions."
Heliatek CEO Guido van Tartwijk

“We are very pleased to be working with Heliatek, one of the world's leading organic thin-film solar photovoltaic manufacturers. Looop announced its Renewable Energy Power Declaration in April 2022, expressing its determination to contribute to energy self-sufficiency and cost reduction through the promotion of domestically produced renewable energy. We are convinced that lightweight, bendable organic thin-film solar power is a long-awaited technology, especially in landless Japan, where it can be installed on pillar-less domed buildings, bus stops, and plastic greenhouses. We look forward to promoting Heliatek's panels in Japan while leveraging our track record and knowledge of supplying renewable energy in a single package."
Looop Inc CEO Soichiro Nakamura

Features of Heliatek's organic thin-film solar panels

Lightweight and flexible installation
Lightweight and flexible, enabling installation on rooftops with low load bearing capacities, façades, and curved surfaces that were previously impossible with conventional solar modules. Also, simple and inexpensive installation is possible on flat roofs, etc., using the integrated backside adhesives, without the need for additional mounting structure or construction work.

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Low Environmental Impact

Low Carbon footprint of less than 10 g CO2e/kWh coming from low material input, no use of toxic or scarce raw materials and an efficient roll-to-roll production process.

Product Specifications

HeliaSol® 436-2000
Standard configuration: Organic thin-film solar panel
Dimensions: 2000 x 436 x 1.8 mm (excl. junction box)
Weight: <2 kg/m2
Nominal maximum output: 50W-55W power classes
Warranty: 5-year product warranty, 20-year output warranty

About Heliatek:
As the technology leader in organic photovoltaics, Heliatek develops, produces and distributes industrial-grade organic PV solar solutions for virtually any building surface (horizontal, vertical, curved, rigid, and flexible). Heliatek stands for energy solutions designed for various traditional and never been possible before applications based on its unique features – it is ultra-light, flexible, ultra-thin and truly green. HeliaSol® is a ready-to-use solution, ideal for retrofitting on existing building structures. HeliaFilm® is tailor-made solar film for companies in the building and construction material industry, to integrate into their façade or roof system products. Heliatek employs more than 200 people at the Dresden and Ulm locations in Germany.

The Free State of Saxony, the Federal Republic of Germany, and the European Union funded research and development, as well as the installation of the production technology.

About Looop:
Looop Inc., the Japanese new utility company was founded in April 4th, 2011, after volunteer activities in the Great East Japan Earthquake in 2011. Our vision is to use renewable energy to create a "Free-Energy Society" where energy will advance from “consumption” to “circulation”. Looop started selling My Power Plant Kit at the beginning and launched electricity retail business “Looop Denki” later in 2016, which made it the first power retail to offer a pricing scheme without basic charge in the industry. Looop provides different services across the power business value chain from power generation, energy management, to consumption as a "One-Stop Service".

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