

GARBE Renewable Energy – GREEN GmbH launches pilot project for innovative PV solutions from Heliatek GmbH in Berlin

GARBE Renewable Energy – GREEN GmbH ('GREEN'), a subsidiary of GARBE Industrial Real Estate GmbH ('GARBE'), inaugurated the film photovoltaic system installed on the external façade in cooperation with the companies Heliatek GmbH ('Heliatek') and ADLER Smart Solutions GmbH ('ADLER') on 13 October 2021.

Berlin Hohenschönhausen, 14 October 2021. The project, funded by the EU under the 'LIFE' programme, was officially commissioned on 13 October 2021 by representatives of the European Commission's funding commission, the project partner COMSA and representatives of the companies involved.

Avoiding CO₂ emissions wherever possible – GREEN also pursues this goal for managed portfolio properties of GARBE. For example, the system can extend the lifespan and utilisation cycles of the properties and enhance the attractiveness of the locations long-term. Moreover, it can help avoid demolition, which is a waste of energy. If the installation of a conventional roof-mounted photovoltaic system is not possible on roofs due to insufficient static or structural stability, older buildings may be retrofitted in the future by mounting organic photovoltaic films laterally on their façades. As part of this pilot project, the innovative PV modules from Heliatek were installed by ADLER on the south side of the logistics hall in Berlin Hohenschönhausen (Marzahner Straße) on an area covering almost 480 m².

Mathias Wasko, Managing Director of GREEN, explains: 'The cooperation with Heliatek offers us the potential to open up additional areas for the generation of electricity from renewable energies. Thanks to their low weight of less than 2 kg per m² plus easy application using the integrated adhesive on the back, the innovative properties of the solar films allow photovoltaic solutions to be integrated – even on buildings that are not suitable for conventional PV systems. Yet they also form an effective addition to PV roof systems for boosting electricity yield.'

'Our innovative HeliaSol[®] solar films are very light and flexible, as they're based on a new type of solar technology. They enable solar power generation exactly on the surfaces where conventional solar solutions reach their limits due to their weight or the subsoil. Organic solar technology is the cleanest of all solar technologies and will help to achieve the ambitious GREEN targets. It's also an important step towards a carbon-neutral future,' adds Guido van Tartwijk, CEO of Heliatek.

'Climate protection needs technical progress – that's why our innovative strength is also a central element of our company philosophy', explains Tajo Adler, Managing Director of ADLER Smart Solutions, which specialises in renewable energies and charging infrastructure. 'So we're really pleased to be a part of this project with our partners – a project that breaks new ground when it comes to maximising the use of sustainable power generation with real estate and buildings.'

The pilot installation is intended to demonstrate the potential electricity yield that can be generated over the course of a year by using façades or buildings with insufficient load reserves for conventional PV systems. Garbe Renewable Energy GmbH hopes to establish long-term partnerships with Heliatek and ADLER in order to achieve ambitious goals in the medium term.

Picture photographer Sönke Hansen:

Caption: The official commissioning took place on 13 October in the presence of the project sponsors and the participating companies GREEN, Heliatek and ADLER.

Picture photographer: Felix Löchner



Caption 1: The official commissioning took place on 13 October in the presence of the project sponsors and the participating companies GREEN, Heliatek and ADLER. From left to right: Mathias Wasko, Managing Director of GREEN, Guido van Tartwijk, CEO of Heliatek, Julian Bernauer, Project leader ADLER Smart Solutions GmbH.



Caption 2: GARBE's existing property on Marzahner Strasse in Berlin with the integrated HeliaSol[®] solar films.



Caption 3: With the help of the integrated adhesive on the back, the HeliaSol[®] solar films can be precisely attached by the assembly team.



Caption 4: The joint project by GREEN, Heliatek and ADLER Smart Solutions is funded by the EU Commission as part of the "LIFE" program and is a GREEN pilot project to maximize the CO₂ savings potential of buildings.

About GARBE Renewable Energy – GREEN GmbH

GARBE Renewable Energy – GREEN GmbH is a subsidiary of GARBE Industrial Real Estate GmbH and configures photovoltaic systems on logistics and commercial properties. Photovoltaic systems with an output of 200 MWp are currently being developed at over 70 locations. Additional plans include expanding storage and electromobility solutions at over 120 locations in collaboration with long-term partners.

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About Heliatek GmbH

As the technology leader in organic photovoltaics, Heliatek develops, manufactures and distributes industrial grade organic PV solar solutions for almost any building surface (horizontal, vertical, curved, rigid and flexible). Heliatek's mission is to conceptualise energy solutions for various traditional applications that were not possible before due to their unique characteristics – they are ultra-light, flexible, ultra-thin and truly green. HeliSol[®] is a 'ready-to-use' solution, ideal for retrofitting existing buildings. HeliFilm[®] is a customised solar film for companies in the construction and building materials industries, which can be integrated into their façade or roofing system products. Heliatek employs more than 200 people at its sites in Dresden and Ulm in Germany.

Research and development work and the installation of production technology were funded by the Free State of Saxony, the Federal Republic of Germany and the European Union.

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About ADLER Smart Solutions GmbH

ADLER Smart Solutions GmbH provides comprehensive support to companies in the four phases of conceptual design, project development, EPC (engineering, procurement and construction) and operational management to make it easier for them to be part of the sustainable energy and mobility transition.

The comprehensive in-house solutions for all necessary process steps from the initial concept to the long-term operational management of PV systems and charging infrastructure ensure the company a unique know-how transfer – for optimal design of its customers' sustainable energy strategy and advice with regard to innovative operator models and the handling of the generated energy. The successful implementation of complex projects for both small and medium-sized businesses as well as large international corporations is proof of the individual and high-quality solutions for fully exploiting the power generation potential of real estate and buildings as well as the professional installation of charging infrastructure.

ADLER supports its customers sustainability strategies – wherever needed – through the smart coupling of PV electricity with electromobility. The company also helps customers to integrate storage technologies, apply for subsidies and implement investment and financing concepts.

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About GARBE Industrial Real Estate GmbH

GARBE Industrial Real Estate GmbH, headquartered in Hamburg, is one of the leading providers and managers of logistics, corporate and technology real estate in Germany. For more than 30 years, the company has been one of the most important independent cooperation partners for transport and logistics service providers, trade and manufacturing industry. GARBE Industrial Real Estate GmbH develops, buys or sells, leases, manages and finances high-quality re-let commercial properties at attractive national and international transport and industrial locations. With around 4.4 million square metres of lettable space, GARBE Industrial Real Estate GmbH currently manages 180 properties at 128 locations in six countries with a value of seven billion euros (as of June 2021).

The topic of ecological and social sustainability and corporate governance has been a focus at GARBE Industrial Real Estate GmbH for over 10 years. All initiatives are bundled under the motto 'Responsible by Choice'. In order to preserve 'embodied energy', the portfolio management uses a step-by-step plan to improve the carbon balance in building operation as far as possible – without major losses of primary energy. As part of this strategy, the goal is not only to reduce energy consumption, but also to focus on the possibility of producing green electricity through the subsidiary GARBE Renewable Energy – GREEN GmbH.

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