OPTIGRÜN®
ROOF GREENING

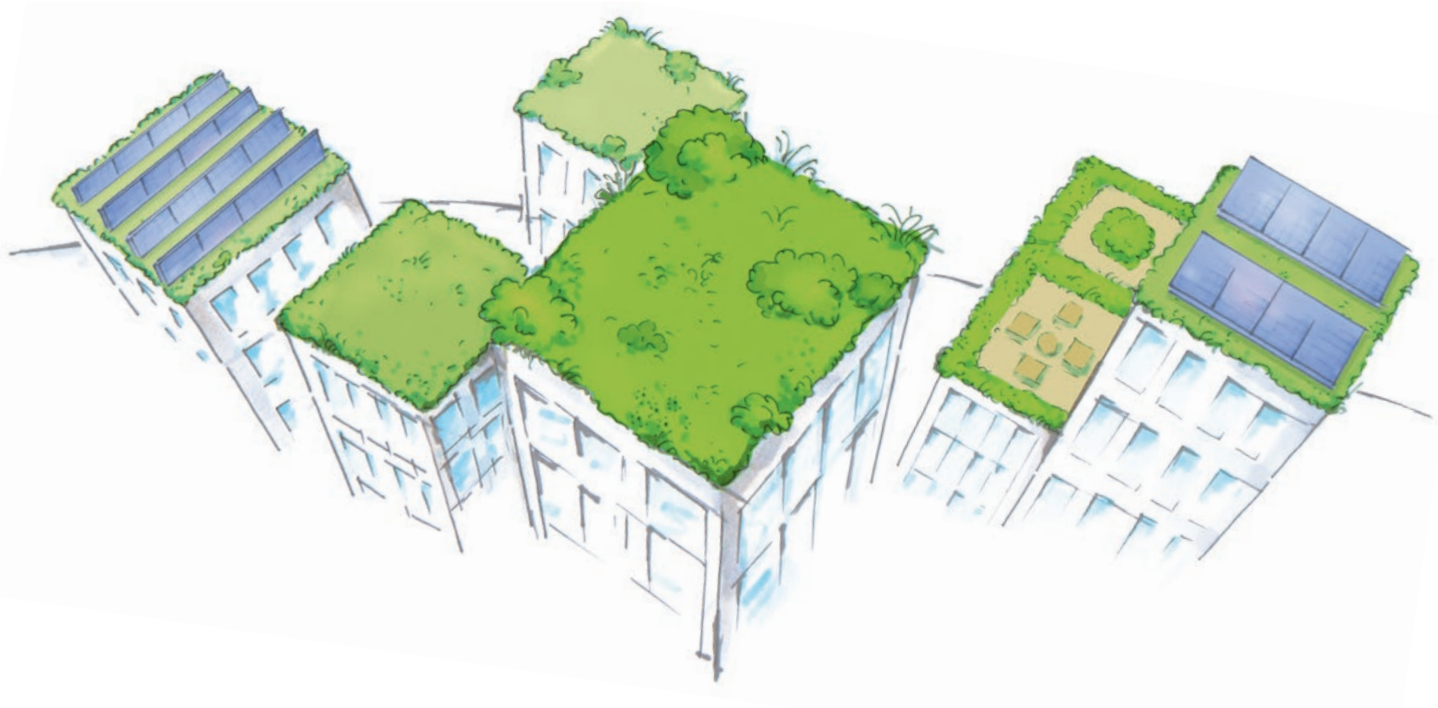
OPTIGRÜN-SOLAR SOLon

THE VERTICAL PV SYSTEM FOR GREEN ROOFS

WHEN ENERGY PRODUCTION MEETS GREEN ROOFS.

To improve the urban climate and design cities that are worth living in, various adaptation measures are necessary. Due to the shortage of space, the available roof areas must be used in a multifunctional way. A BIO-SOLAR ROOF unites the advantages of green roofs and photovoltaic systems.

The symbiosis of the systems also creates additional positive effects. Combining a photovoltaic system with a green roof can boost the efficiency of the photovoltaic system due to the reduced surface temperature. The vertical mounting frame, in particular, ensures optimum conditions for the development and functioning of a green roof.



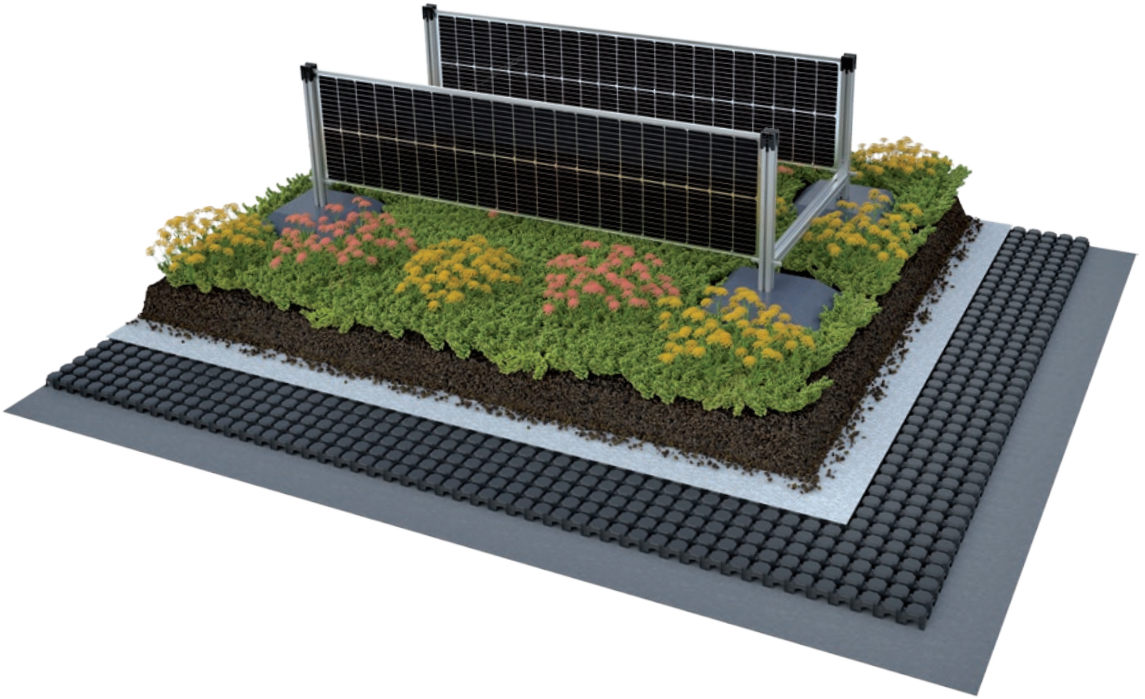
OPTIGRÜN is the market leader in green roofs and buildings and has already been successfully working in the construction industry for 50 years.

SOLYCO, the solar expert, has been working in the field of photovoltaics for over 20 years and is known in the industry for innovative products and pioneering systems.

By combining expertise and decades of experience from the fields of green roofs and energy generation, the two companies OPTIGRÜN and SOLYCO offer builders, investors, designers, architects and municipalities a sophisticated and economical solution for sustainable urban development.

COOPERATION FOR SUSTAINABLE URBAN DEVELOPMENT.

Planning and implementing a solar green roof requires a great deal of expert knowledge. This is why service and advice are of particularly high importance to us at OPTIGRÜN.

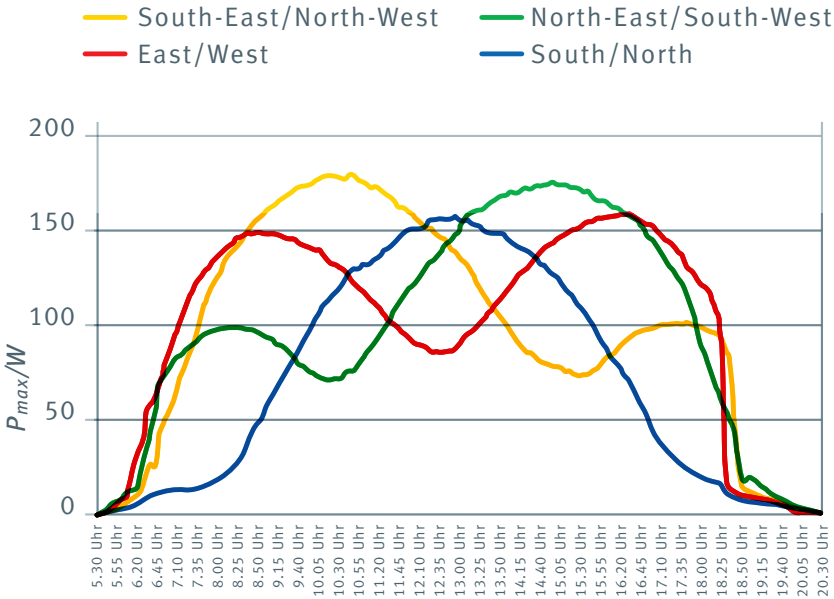


- High electricity yield, comparable with a conventional solar green roof
- High-quality double-glazed modules with high bifacial coefficient and hail protection
- Retrofitting on existing green roofs possible
- Very low weight of 12-22 kg/m²
  (Own load incl. partly necessary ballastfeet)
- Cohesive system, secured against shifting as a result of wind pressure, no occurrence of wind suction
- Consistent supply of light and water to the vegetation. The green roof can develop unhindered
- Maintenance can easily be carried out on the green roof
- Integrated cable management
- Very simple, quick installation
- Certified in accordance with IEC 61215, IEC 61730, IEC 61701, IEC TS 62804 (module safety and reliability)

ADVANTAGES THAT IMPRESS.

CERTIFIED AND TESTED.

OPTIGRÜN-SOLAR SOLon is the result of extensive research, including wind tunnel testing. The system can be installed securely in place with low loads, making it also suitable for roofs with limited static reserves. The advantages of OPTIGRÜN-SOLAR SOLon can be seen when used in combination with new or existing green roofs. The vertical mounting frame guarantees a consistent supply of light and water to the vegetation, allowing the green roof to develop optimally. The energy yield for the vertical system is comparable to a conventional east-west green roof mounting frame. It can even minimise yield losses due to snowfall. OPTIGRÜN-SOLAR SOLon thus represents an economical solution for sustainable urban development.



Maximum performance of OPTIGRÜN-SOLAR SOLon in different orientations over the course of the day

OPTIGRÜN-SOLAR SOLon enables the vertical mounting of the bifacial PV modules in any orientation – even on a roof surface. By selecting and combining the orientations, it is possible to achieve particularly consistent electricity production and adapt the yield profile to one's own needs.

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PLANS BECOME REALITY WHEN THERE ARE EXPERTS AT WORK.

Do you want to realize a project with us?

We look forward to hearing from you:
solar@optigruen.de

Optigrün international AG
Am Birkenstock 15 – 19
D-72505 Krauchenwies-Göggingen
info@optigruen.de

www.optigruen.de

SOLYCO Solar AG
Baseler Straße 60
D-12205 Berlin
info@solyco.com

www.solyco.com