

# **SOLAR-ACTIVE** **FAÇADES**

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Innovation. Aesthetic. Impact.



I am a solar façade!

# SUSTAINABILITY IS THE NEW NORMAL.

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ENVELON develops and manufactures solar-active façades for any building.

Our goal is meeting the high demands of architectural aesthetics without limiting creativity while being a reliable and trusted partner. Our objective is to contribute to a livable, sustainable future for generations to come. We are at the forefront of the vertical energy revolution using upright walls to generate solar power.

As a family business and a multinational group, we get the best of both worlds. Our cooperative nature and strong convictions are fused with the access to diverse resources and the worldwide reach of Grenzebach. From our headquarters in Hamlar, Bavaria, we are proud to bring to the world the highest quality of products and services that are 'Made in Germany'.

## **Multifunctional team**

of experts throughout every phase of the project

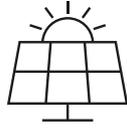
## **Globally represented**

through offices in Germany, the Netherlands, USA and Singapore

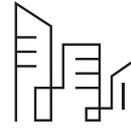
## **Fully automated**

manufacturing facility at our HQ in Germany

## The key benefits of solar-active façades.



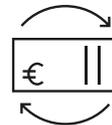
**Consistent on-site renewable energy generation**  
with your building



**Unleash creativity and develop unique architectural designs**  
through different sizes and colors



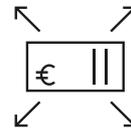
**Reduce the carbon footprint**  
of your building



**Receive an attractive ROI**  
by generating energy



**Reach a high degree of self-sufficiency**  
and make your building  
more sustainable



**Sound investment opportunity**  
in on-site energy generation that  
is aesthetically appealing and  
economically attractive



**Achieve your ESG goals  
and requirements –**  
Do well by doing good!

# ONE SYSTEM – ENDLESS POSSIBILITIES.

Frameless glass-glass panels with a concealed mounting system and efficient color coating.

I am a solar façade!

To promote the integration of solar energy in buildings we designed a solution that keeps all the functionalities of conventional façades but at the same time generates energy and elevates the aesthetics of the building.

## **ENVELON solar module: ON Generate**

The ENVELON system makes it possible to cover two technical aspects with a single investment.

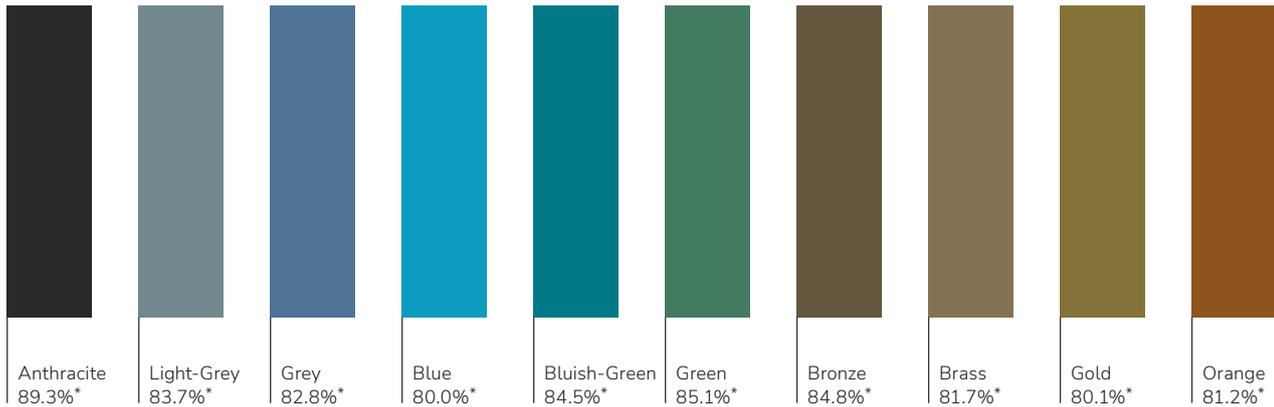
Thanks to the combination of beautiful glass façade panels with integrated solar power, available in different colors, we have added a new dimension to façades. Our system keeps all the functionalities of a conventional façade, but unlike a passive glass façade, it contributes true value for the owner and the environment for years to come.



Building integrated photovoltaics in a minimalistic design  
Visitor Center with a restaurant with BIPV roof and façade.

## Design potential with colors to create an inspired look.

Our color technology provides a palette of diverse colors that allows architects the freedom to realize their designs while creating buildings that stand out. Whatever the color, the modules are capable of generating solar-powered energy.

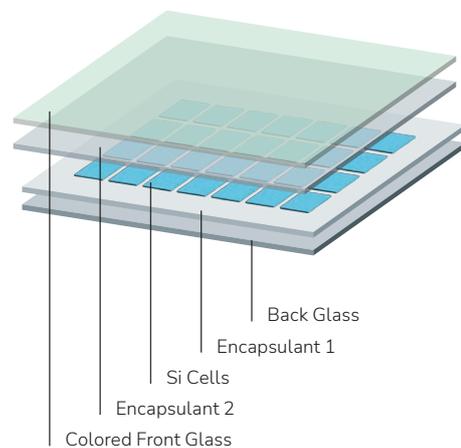


\* light transmittance in percent



### How does ENVELON achieve this?

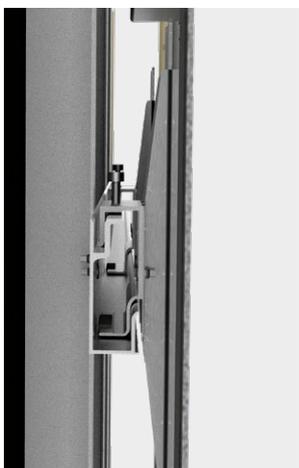
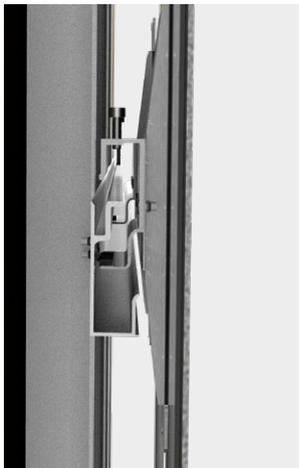
ENVELON's color technology uses ultra thin coating that selectively absorbs a specific spectrum of colors.



# INSTALLATION MADE EASY.

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System design makes maintenance straightforward.



A light weight, high-strength adjustable substructure.  
Easy to install and maintain.

## **The future seems complex. We've got the answer.**

The ENVELON system installs quickly and cost effectively, saving time and money by using industry standard mounting substructures hidden behind ENVELON's beautiful solar façades panels. The ENVELON system is also simple to maintain and replace if necessary. The combination of all benefits provides your building with a sustainable and profitable envelope.

# HIGHEST QUALITY MADE IN GERMANY.

Meeting energy generation and aesthetic challenges.



Proven automation technology to manufacture aesthetic and reliable products repetitively.

## Fully automated manufacturing.

In our state-of-the-art facility in Hamlar we merge technology with aesthetics. With streamlined processes and extensive use of automation we have pushed the boundaries of photovoltaics and meet the challenge of producing top quality façades with highest performance levels.



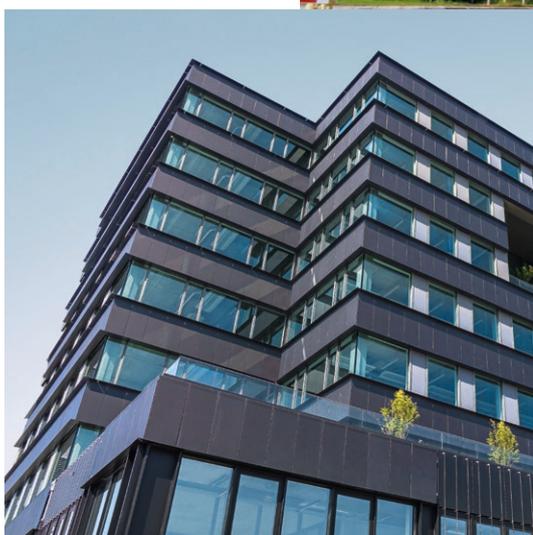
# ARCHITECTURE WITH AMBITION.

Transforming ideas into energizing reality.



**Central Boekhuis, Culembourg, Netherlands (2022)**

Module colors: anthracite and grey  
Performance: 135 kWp



**Max & Moore, Amsterdam, Netherlands (2022)**

Module color: anthracite  
Performance: 150 kWp



**ENVELON®**

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