



# SOLAXESS

WHITE & COLOR SOLAR TECHNOLOGY

100% integrated  
photovoltaics

[www.solaxess.ch](http://www.solaxess.ch)

## YOUR PARTNER

for the production  
of BIPV elements  
active roofs and facades



# OUR EXPERTISE

Solaxess is a Swiss company that specializes in the **high-tech solar sector** and works closely with the CSEM (Swiss Center for Electronics and Microtechnology).

Solaxess develops, manufactures and markets nanotechnology based foils that can be integrated into photovoltaic (PV) panel manufacturing process. **Thanks to the use of Solaxess foil, photovoltaic panels can be perfectly integrated into the construction of all kinds of buildings.**

Our foils enable PV module manufacturers to provide architects, developers and ultimately owners with white or other colored active **full-building elements that are cost-effective, durable and aesthetically pleasing.**

Solaxess brings the building envelope into a new era. Facades and roofs become **active and beautiful.**

## CONSTRUCTION

## + Energy = Active roofs and/or facades

**Let's build tomorrow's buildings together  
and renovate today in all shapes and  
colors.**

**Our perfection makes solar invisible  
and efficient.**



Solaxess  
high-end design  
sustainable performance



New colors  
in constant  
development



# ADD COLORS TO YOUR PROJECTS THANKS TO OUR TECHNOLOGY

## A product adapted to your operation

We support you with the integration of our foils into your standard fabrication process.

Our technology works with standard PV module production lines, as well as more sophisticated automated production lines.

With our shapes and colors, you allow architects and designers to better integrate your photovoltaic panels in their building concept. They can incorporate **renewable energy** into **their design without compromising their aesthetic vision**.

- A Flexible solar panel CIGS
- B Standard module with c-Si cells and white foil Solaxess
- C Integrated white PV panels balconies

**SOLAXESS** <sup>+</sup>  
WHITE & COLOR SOLAR TECHNOLOGY  
*inside*



Our patented technology makes facades active  
and enhances the architectural design.

A METAFORM architects



# A REVOLUTIONARY TECHNOLOGY

## SOLAXESS<sup>+</sup> simplicity, sustainability

WHITE & COLOR SOLAR TECHNOLOGY

Our innovative technology allows for optimal reflection of visible light energy. The desired color is thus obtained, while maximizing the energy transmitted to the PV cells.

This unique feature allows the PV panel to appear perfectly white or colored to the naked eye, hiding the solar cells, while maintaining excellent conversion efficiency.

Our foil is compatible with the main PV technologies on the market, based on c-Si, CIGS-based thin foils or others. It makes any PV panel aesthetically pleasing and therefore easier to integrate into a facade or roof.

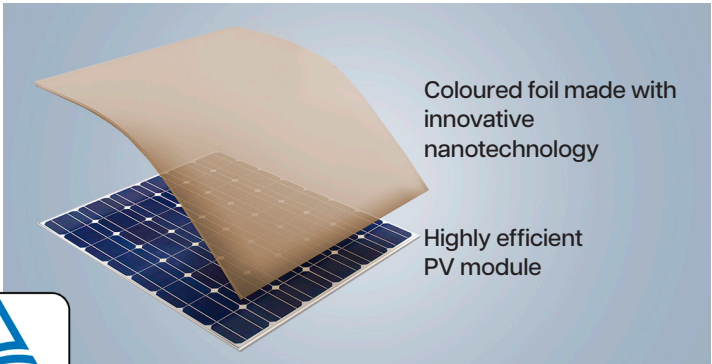
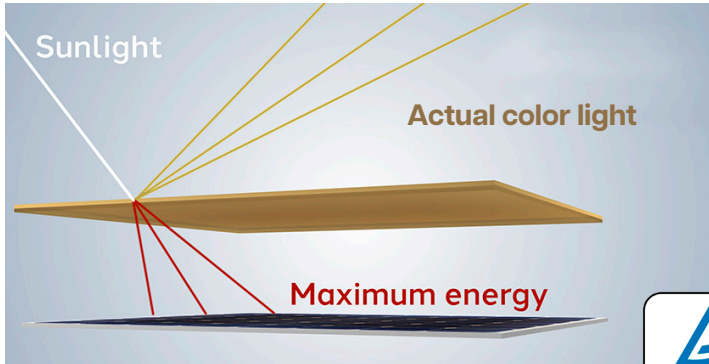


A Foil production machine

C PV Panel and white foil Solaxess

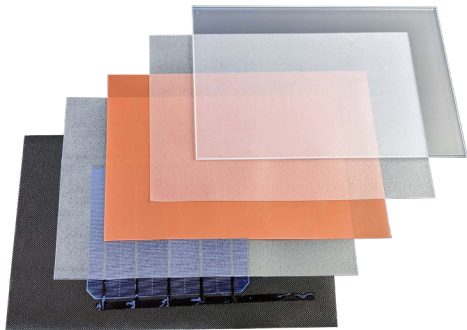
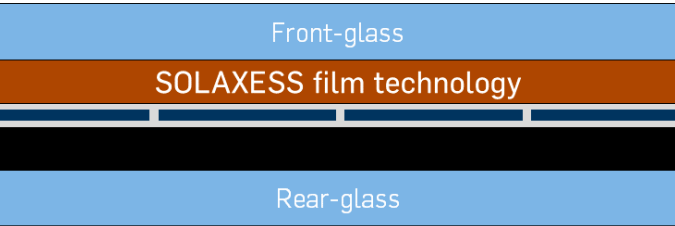
B Easy handling and logistics, reduced storage

D Standard roll: 200m<sup>2</sup>, 1200 mm width, 167 linear meters

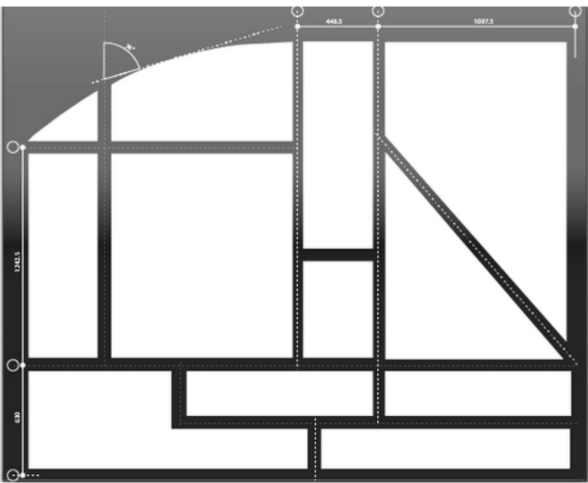


Solaxess supports PV module manufacturers to adapt their product to architectural needs

### Simple integration into PV modules



In BIPV, all PV panels shapes are feasible



### STRENGTHS

- Aesthetic design**  
provides the best trade-off in terms of aesthetics and performance
- Exclusive technology**  
patented and usable by any PV module manufacturer
- Simple logistics**  
can be delivered worldwide - just a few rolls will cover 10'000 m<sup>2</sup>
- Flexibility**  
can be adapted to any size and shape required
- Customised color**  
on demand, any color can be manufactured
- Long term reliability**  
excellent color uniformity and stability



# A FEW KEY FACTS

## LARGE PV FACADE POWER OUTPUT

Conventional passive facade elements made of plaster, aluminium, marble or other materials can finally be replaced by active PV building elements.

The typical **power output of a PV module with our technology is between 110 and 200 Wp/m², depending on the color.** Any color can be developed to match the project design.

**Achievable power output of mono c-Si PV modules using our foils :**



The efficiency is clearly dependent on the type of cells used.



Männedorf - René Schmid Architekten AG  
Award for the best energy performance under the aegis of the Swiss Federal Office of Energy SFOE

Let's pool our knowledge together for a better world :

## PANEL PERFORMANCE IMPROVEMENT

A photovoltaic panel better works at low temperatures. Our foil reduces high temperatures impact on its performance. This temperature reduction, compared to standard black modules, allows

- A better performance in real-world conditions, especially at high temperatures;
- A reduction in air conditioning requirments;
- A solution against urban heat islands.



ventilated facade, photovoltaic product and sustainable development



This 2.0 facade produces your energy and offers you the energy independence



# THE FUTURE OF CONSTRUCTION LIES WITH BIPV, BUILDING INTEGRATED PHOTOVOLTAICS



**PHOTOVOLTAIC SYSTEM**  
as an 100% integrated building material



Architects and designers trust Solaxess for their building and sustainable renovation projects

By covering a part of the buildings with photovoltaic panels, we largely reach our objectives of sustainable development.





# Solaxess provides a nanotechnology foil in white or other color to photovoltaic panels manufacturers.

If you are an architect, promoter, installer or project owner, we can support you in your projects.



**SOLAXESS**   
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Solaxess SA  
Rue des Indiennes 13A  
2074 Marin-Epagnier  
SWITZERLAND

+41 32 727 28 28  
info@solaxess.ch

[www.solaxess.ch](http://www.solaxess.ch)

