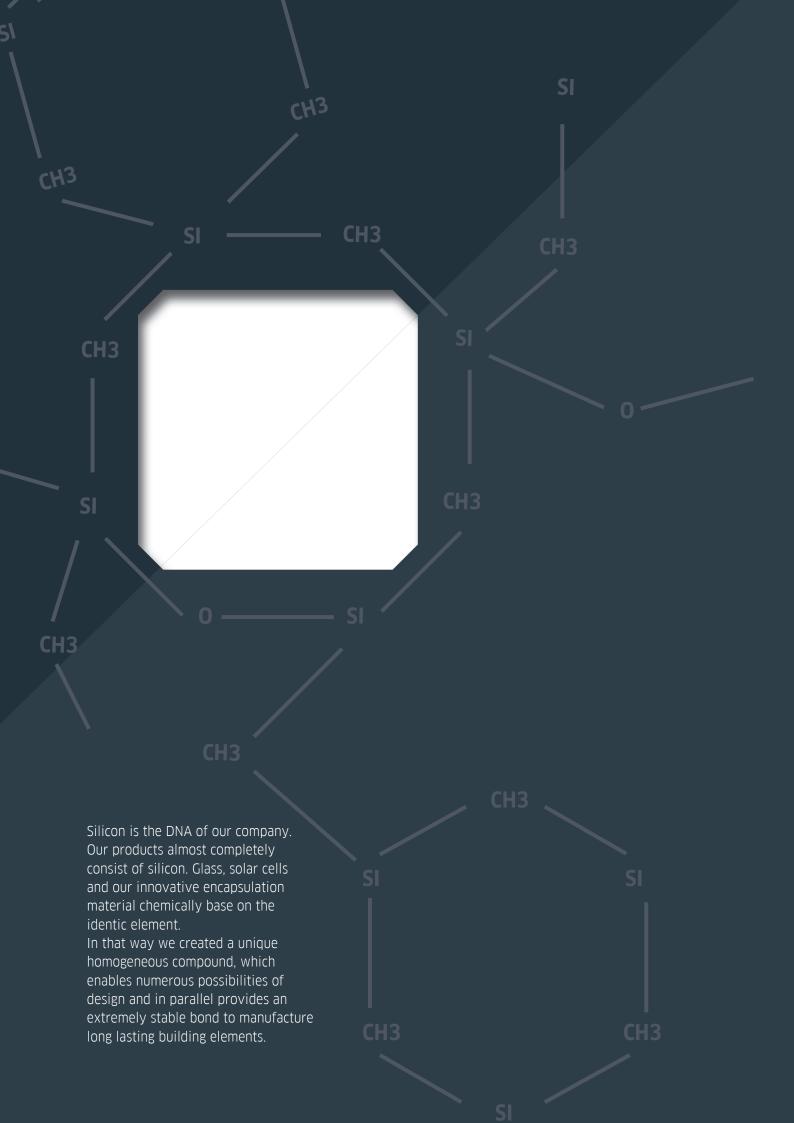
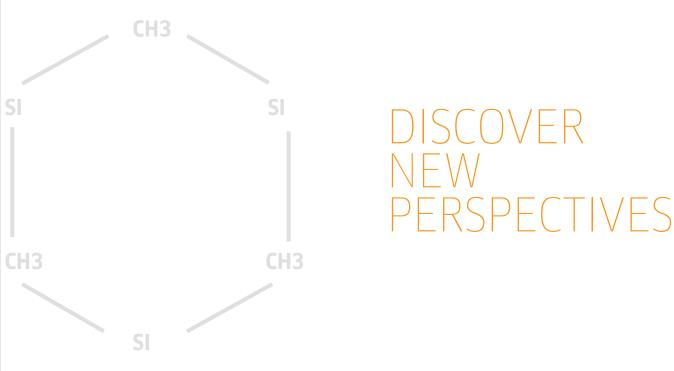
DISCOVER NEW PERSPECTIVES





AESTHETICS OF NEW OPPORTUNITIES

The integration of photovoltaic glass into a facade or a vitreous skylight unlocks a variety of additional surfaces of a building to be used to generate solar power. New technologies allow us to install high efficient Solar glass that also blends in seamlessly with the individual architectural design of a building. Building Integrated PhotoVoltaics (BIPV), a way to create spectacular architectural effects, has become repositioned as a multi-functional building product.

This second-generation BIPV can provide a sustainable energy source combined with an attractive high-end building product. A well designed solar facade conveys innovation prestige and an environmentally responsible outlook. Investors will benefit over the entire lifespan from significant energy savings and make a distinctive eco-friendly statement.



WELCOME TO A MARKET LEADER

SUNOVATION has been developing and manufacturing BIPV glass elements at its factory in Bavaria, Germany, since 2001. Our projects are architectural landmarks that do not only illustrate the aesthetic potential of our products but also generate a significant portion of solar energy during their lifetime. We are proud to have successfully realized the world largest BIPV projects in Europe and Arabia over the past 2 years.











GLASS IN A NEW FORMAT

- / Ecological prestige in superior aesthetics
- / Using more of your buildings exterior for energy generation
- / Meets environmental standards (LEED, BREEAM, DGNB ...)
- / As easy to install as conventional glass
- / Innovative alternative to standard cladding









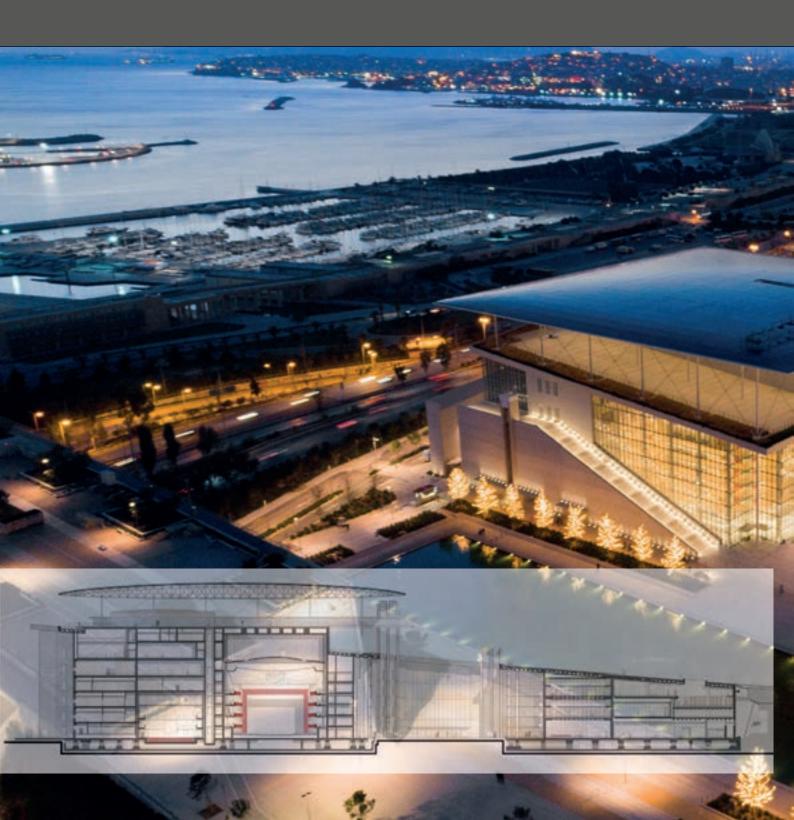
SILICONE - ENDLESS POSSIBILITIES

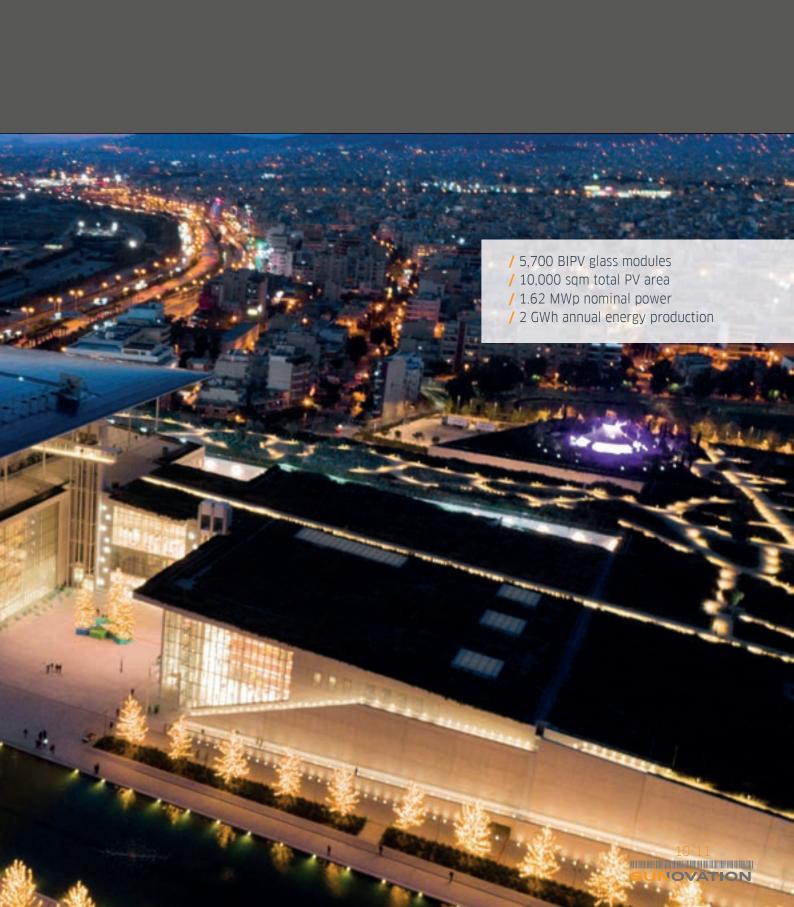
Our unique silicone embedding technology enables us to create a wide range of solar glass modules in any size, shape and geometry. Even curved modules are possible. A key benefit that opens up a broad spectrum of architectural applications for BIPV.

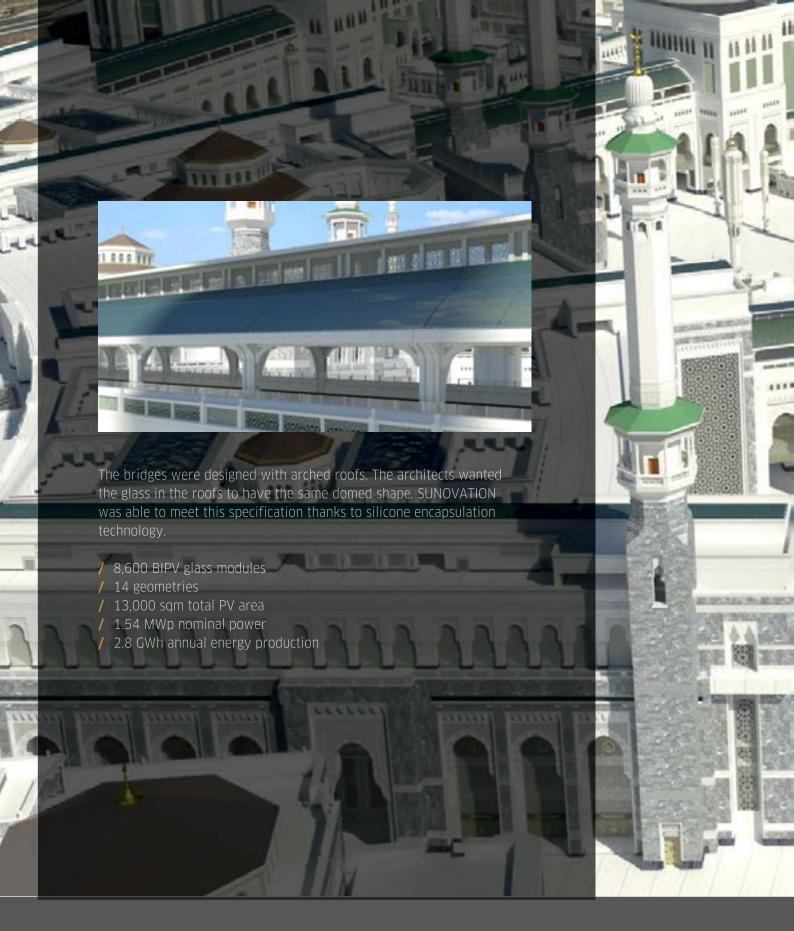


NEW GREECE OPERA AND NATIONAL LIBRARY Project in Athens

With its 10,000 sqm BIPV-roof, the new opera building in Athens raises the bar in terms of sustainability. The planners achieved LEED platinum certification. For reasons of aesthetics and maintenance, the glass modules were designed to be walked on.

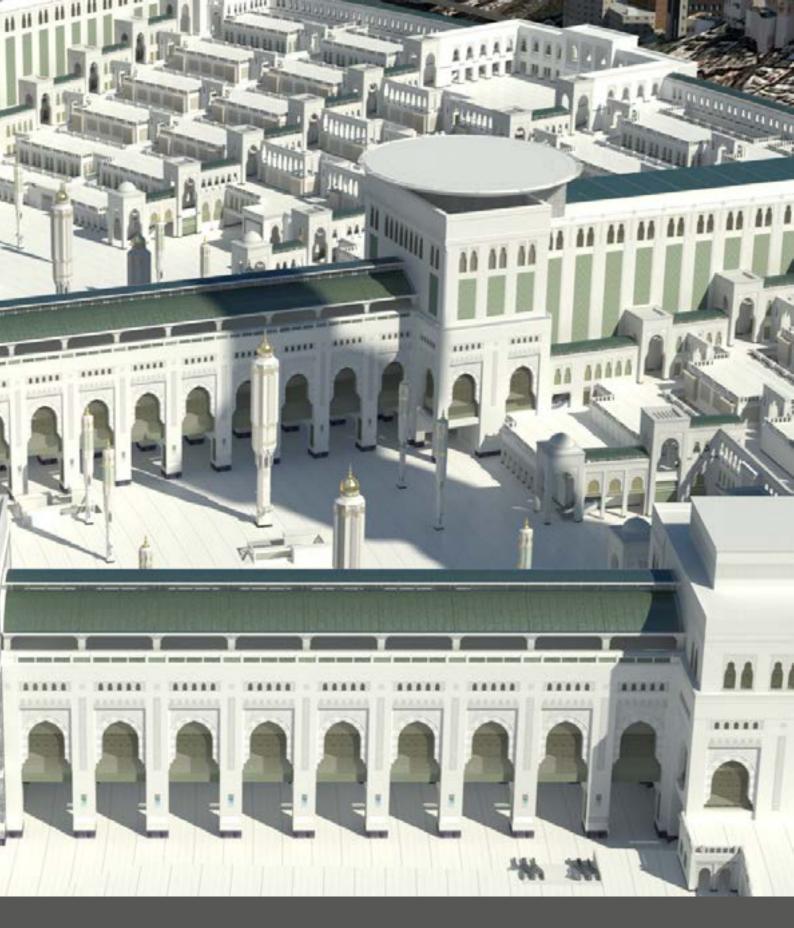






AL-SHAMIYA EXPANSION OF THE HOLY MOSQUE Project in Mecca

To better route the pilgrims from the arrival point to the center of the mosque, the architects designed four new bridges with solar glass roofs. Using SUNOVATIONs` unique technology, it was possible to cover the roofs with green solar glass modules that were curved to match the shape of the arch.





eFORM clear & eFORM color PERFECT APPEARANCE

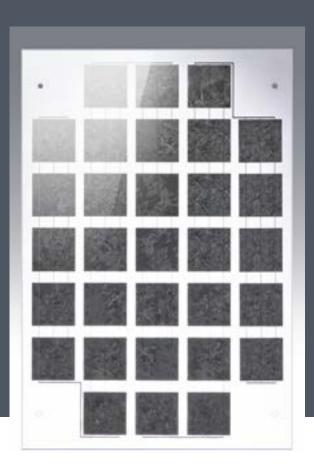
- / Transparent look regardless the cell spacing
- / Homogeneous look by screen printing of the cell colour on the rear of the glass
- / All shapes and styles are possible
- / Curved glass in either a convex or concave design

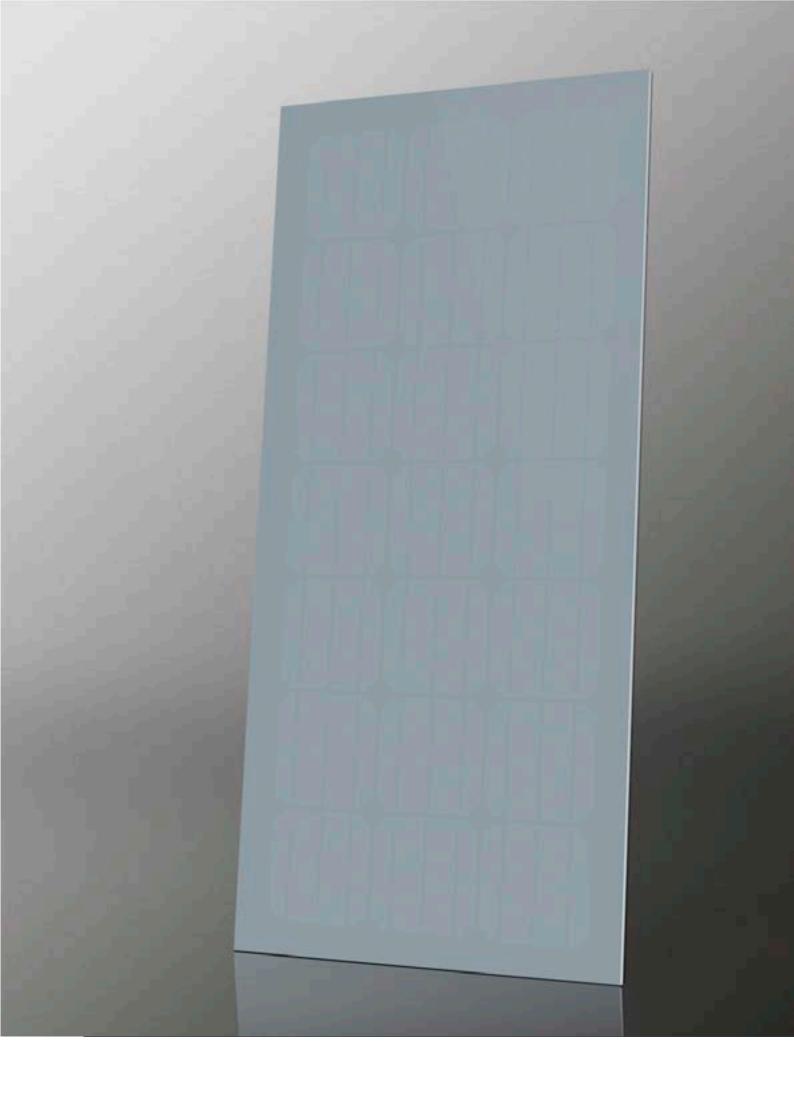
EASE OF INSTALLATION

SUNOVATION solar glass modules can be mounted like any other glass in standard fixing profiles available on the market.

Cables and connectors can be hidden inside the profile, so that electricity parts are unvisible.

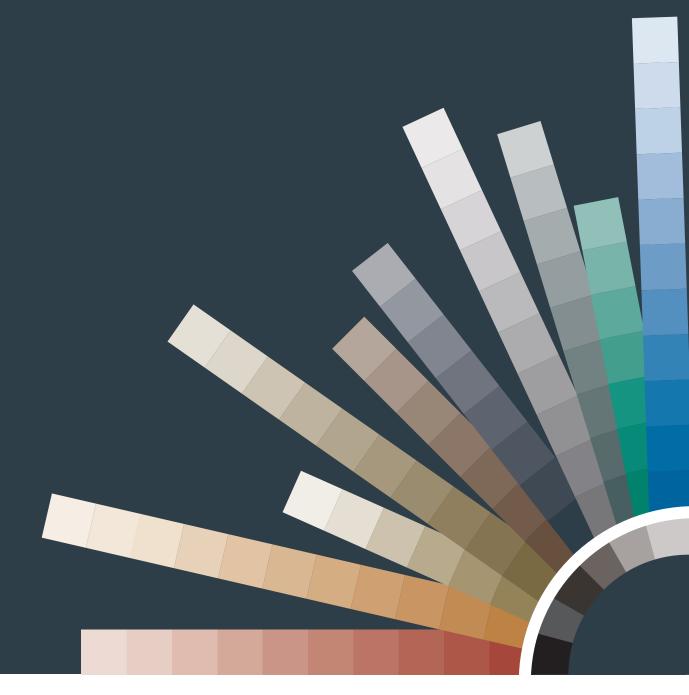






eFORM unichrome A WORLD OF COLORS

A new ink technology, characterized by vibrant hues and optimum adhesion, provides a sufficient level of transparency for sunlight to shine through despite the excellent coverage. This process can produce a black-grey-white gradient as well as a number of other colors. State-of-the-art digital printing can be used to produce custom colors, images, company logos and even reliefs and other raised effects. These can be printed on single or over multiple modules.



HOW WE WORK

CONCEPT

visioning

- / Use & benefits
- / Site assessment
- / Eco targets
- / Local constraints
- / Samples
- / References

CONCEPTUAL

design

- / Design program
- / Available areas
- / Glass requirements
- / Colors
- / Sketches
- / Renderings
- / Cost estimate

SCHEMATIC

design

- / General layout
- / Sizes & geometries
- / Static dimensions
- / Underconstruction
- / Fixation
- / Power configuration

CONCEPT VISIONING CONCEPTUAL DESIGN SCHEMATIC DESIGN SCHE

DESIGN development

- / Cell- & module layout
- / Specification
- / Technical drawings
- / Cost revision
- / Production schedule
- / Mock-up

CONSTRUCTION

documents

- / Detailed drawings
- / Data sheets
- / Certifications
- / Tests

CONSTRUCTION

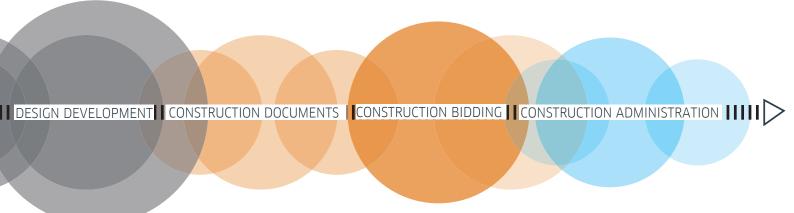
bidding

- / Tender documents
- / Offer
- / Final pricing
- / T&C
- / Contract specification

CONSTRUCTION

administration

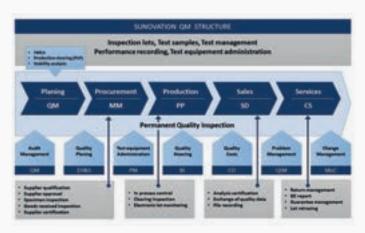
- / Operation manual
- / Maintenance instruction
- / Power monitoring
- / Operation services

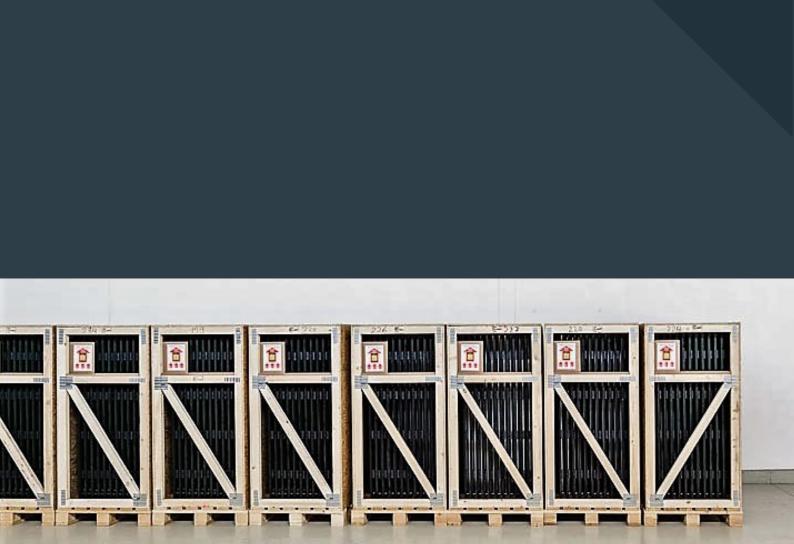


CERTIFIED QUALITY

- / All process steps documented
- / Annual audit by TUeV Rheinland
- / Permanent inline quality control
- / Quality analysis on single piece level
- / 100% Electroluminescent (EL Pic) cell control
- / Calibrated Flasher by Fraunhofer Institute
- / Duplex product and packaging end control
- / Customer access to individual project database









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