FEASIBILITY STUDIES

DISCOVER DIFFERENT CONSTRUCTIVE SOLUTIONS IN ITALY

FEASIBILITY STUDY ROME

HIDDEN PV IN WHITE COLOR

- INTENSE GREEN 100 W/M²
- WHITE 110 W/M²
- MARBLE BROWN 115 W/M²
- **DEEP BLUE** 160 W/M²

CHARACTERISTICS OF THE GLASS

Peak Power (Wp/m²)	110 Wp per m²
Visible light transmittance	0%

ENVIRONMENTAL BENEFITS ROME

Renewable energy generated	2.1348 KWh per m²
Kg of CO_2 avoided	546 Kg per m²
Kilometres driven in an electric car	12.276 Km per m²
Light points fed	4.1 per m²/day

ECONOMIC BENEFITS ROME*

Value of the renewable energy generated	803 € per m²
Return on investment	5.3 times
Internal rate of return (IRR)	12.25 %
Payback time	7,5 years
Building's value increase**	331 € per m²

RESULTS IN OTHER LOCATIONS OF ITALY

Electricity generated (Milan)	1.822 KWh per m²
Payback time (Milan)	8,2 years
Electricity generated (Naples)	2.422 KWh per m²
Payback time (Naples)	6,5 years
Electricity generated (Palermo)	2.626 KWh per m²
Payback time (Palermo)	6,3 years

DATA CONSIDERED FOR CALCULATIONS

Tilt: 90°

Orientation: S

PV FAÇADE / BALCONY

ITALY

CRYSTALLINE SILICON TECHNOLOGY

PV ESTIMATION TOOL

Calculate the energy produced in any location.

ENERGY LOSSES PER ORIENTATION

-21% -63% -18%

Onyx facilitates obtaining recognized sustainability certifications for buildings like LEED or BREEAM.

We plant one tree for every m² of PV glass we produce. Each tree absorbs an average of 10 Kg of CO2 per year.

Data Calculated for a 35-year useful life.

* The prices considered are merely indicative and may vary depending on the installed glass surface. The data provided in this feasibility study in no case involves a contractual obligation.

** According to the US Department of Energy & Environment a sustainable building will obtain an increase of value between 10 and 20 USD for every USD generated by renewable energy.

FEASIBILITY STUDY ROME

HIDDEN PV IN WHITE COLOR

- INTENSE GREEN 100 W/M²
- WHITE 110 W/M²
- MARBLE BROWN 115 W/M²
- **DEEP BLUE** 160 W/M²

CHARACTERISTICS OF THE GLASS

Peak Power (Wp/m²)	110 Wp per m²
Visible light transmittance	0%

ENVIRONMENTAL BENEFITS ROME

Renewable energy generated	2.729 KWh per m²
Kg of CO_2 avoided	698 Kg per m²
Kilometres driven in an electric car	15.694 Km per m²
Light points fed	5.4 per m²/day

ECONOMIC BENEFITS ROME*

Value of the renewable energy generated	1.027 € per m²
Return on investment	7.5 times
Internal rate of return (IRR)	16.8 %
Payback time	5 years
Building's value increase**	424 € per m²

RESULTS IN OTHER LOCATIONS OF ITALY

Electricity generated (Milan)	2.319 KWh per m²
Payback time (Milan)	5 years
Electricity generated (Naples)	3.084 KWh per m²
Payback time (Naples)	2,3 years
Electricity generated (Palermo)	3.357 KWh per m²
Payback time (Palermo)	2,2 years

DATA CONSIDERED FOR CALCULATIONS

Tilt: 30°

Orientation: S

HIDDEN PV ROOF

ITALY

CRYSTALLINE SILICON TECHNOLOGY

PV ESTIMATION TOOL

Calculate the energy produced in any location.

ENERGY LOSSES PER ORIENTATION

Onyx facilitates obtaining recognized sustainability certifications for buildings like LEED or BREEAM.

We plant one tree for every m² of PV glass we produce. Each tree absorbs an average of 10 Kg of CO2 per year.

Data Calculated for a 35-year useful life.

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FEASIBILITY STUDY ROME

OPAQUE PV GLASS

CELL DENSITY

LOW 111 W/M²	43%	
MEDIUM 141 W/M²	28%	
HIGH 173 W/M²	11%	
OPAQUE 180 W/M²	0%	VISIBLE LIGHT TRANSMITTANCE

CHARACTERISTICS OF THE GLASS

Peak Power (Wp/m²)	180 Wp per m²
Visible light transmittance	0%

ENVIRONMENTAL BENEFITS ROME

Renewable energy generated	3.558 KWh per m²
Kg of CO_2 avoided	910 Kg per m²
Kilometres driven in an electric car	20.460 Km per m²
Light points fed	6,99 per m²/day

ECONOMIC BENEFITS ROME*

Value of the renewable energy generated	1.339 € per m²
Return on investment	8,9 times
Internal rate of return (IRR)	20,43 %
Payback time	6 years
Building's value increase**	553 € per m²

RESULTS IN OTHER LOCATIONS OF ITALY

Electricity generated (Milan)	3.038 KWh per m²
Payback time (Milan)	7,02 years
Electricity generated (Naples)	4.038 KWh per m²
Payback time (Naples)	5,3 years
Electricity generated (Palermo)	4.377 KWh per m²
Payback time (Palermo)	4,87 years

DATA CONSIDERED FOR CALCULATIONS

Tilt: 90°

Orientation: S

PV DOUBLE SKIN / SPANDREL

ITALY

CRYSTALLINE SILICON TECHNOLOGY

PV ESTIMATION TOOL

Calculate the energy produced in any location.

ENERGY LOSSES PER ORIENTATION

Onyx facilitates obtaining recognized sustainability certifications for buildings like LEED or BREEAM.

We plant one tree for every m² of PV glass we produce. Each tree absorbs an average of 10 Kg of CO2 per year.

Data Calculated for a 35-year useful life.

* The prices considered are merely indicative and may vary depending on the installed glass surface. The data provided in this feasibility study in no case involves a contractual obligation.

** According to the US Department of Energy & Environment a sustainable building will obtain an increase of value between 10 and 20 USD for every USD generated by renewable energy.

FEASIBILITY STUDY ROME

MEDIUM CELL DENSITY PV GLASS

CELL DENSITY

LOW 111 W/M²	43%	
MEDIUM 141 W/M²	28%	← VISIBLE LIGHT TRANSMITTANCE
HIGH 173 W/M²	11%	
OPAQUE 180 W/M²	0%	

CHARACTERISTICS OF THE GLASS

Peak Power (Wp/m²)	141 Wp per m²
Visible light transmittance	28%

ENVIRONMENTAL BENEFITS ROME

Renewable energy generated	2.787 KWh per m²
Kg of CO_2 avoided	713 Kg per m²
Kilometres driven in an electric car	16.027 Km per m²
Light points fed	5,48 per m²/day

ECONOMIC BENEFITS ROME*

Value of the renewable energy generated	1.049 € per m²
Return on investment	5,42 times
Internal rate of return (IRR)	12,76 %
Payback time	9 years
Building's value increase**	434 € per m²

RESULTS IN OTHER LOCATIONS OF ITALY

Electricity generated (Milan)	2.380 KWh per m²
Payback time (Milan)	10,53 years
Electricity generated (Naples)	3.163 KWh per m²
Payback time (Naples)	7,9 years
Electricity generated (Palermo)	3.428 KWh per m²
Payback time (Palermo)	7,31 years

DATA CONSIDERED FOR CALCULATIONS

Tilt: 90°

Orientation: S

PV CURTAIN WALL

ITALY

CRYSTALLINE SILICON TECHNOLOGY

PV ESTIMATION TOOL

Calculate the energy produced in any location.

ENERGY LOSSES PER ORIENTATION

-21% -63% -18%

Onyx facilitates obtaining recognized sustainability certifications for buildings like LEED or BREEAM.

We plant one tree for every m² of PV glass we produce. Each tree absorbs an average of 10 Kg of CO2 per year.

Data Calculated for a 35-year useful life.

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** According to the US Department of Energy & Environment a sustainable building will obtain an increase of value between 10 and 20 USD for every USD generated by renewable energy.

FEASIBILITY STUDY ROME

LOW CELL DENSITY PV GLASS

CELL DENSITY

LOW 111 W/M²	43%	VISIBLE LIGHT TRANSMITTANCE
MEDIUM 141 W/M²	28%	
HIGH 173 W/M²	11%	
OPAQUE 180 W/M²	0%	

CHARACTERISTICS OF THE GLASS

Peak Power (Wp/m²)	111 Wp per m²
Visible light transmittance	43%

ENVIRONMENTAL BENEFITS ROME

Renewable energy generated	2.194 KWh per m²
Kg of CO_2 avoided	561 Kg per m²
Kilometres driven in an electric car	12.617 Km per m²
Light points fed	4,31 per m²/day

ECONOMIC BENEFITS ROME*

Value of the renewable energy generated	826 € per m²
Return on investment	5 times
Internal rate of return (IRR)	11,71 %
Payback time	10 years
Building's value increase**	341 € per m²

RESULTS IN OTHER LOCATIONS OF ITALY

Electricity generated (Milan)	1.873 KWh per m²
Payback time (Milan)	11,7 years
Electricity generated (Naples)	2.490 KWh per m²
Payback time (Naples)	8,8 years
Electricity generated (Palermo)	2.700 KWh per m²
Payback time (Palermo)	8,12 years

DATA CONSIDERED FOR CALCULATIONS

Tilt: 90°

Orientation: S

ENERGY LOSSES PER ORIENTATION

-21% -63% -18%

Data Calculated for a 35-year useful life.

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** According to the US Department of Energy & Environment a sustainable building will obtain an increase of value between 10 and 20 USD for every USD generated by renewable energy.

PV BALUSTRADE / BALCONY

ITALY

CRYSTALLINE SILICON TECHNOLOGY

PV ESTIMATION TOOL

Calculate the energy produced in any location.

Onyx facilitates obtaining recognized sustainability certifications for buildings like LEED or BREEAM.

We plant one tree for every m² of PV glass we produce. Each tree absorbs an average of 10 Kg of CO2 per year.

FEASIBILITY STUDY ROME

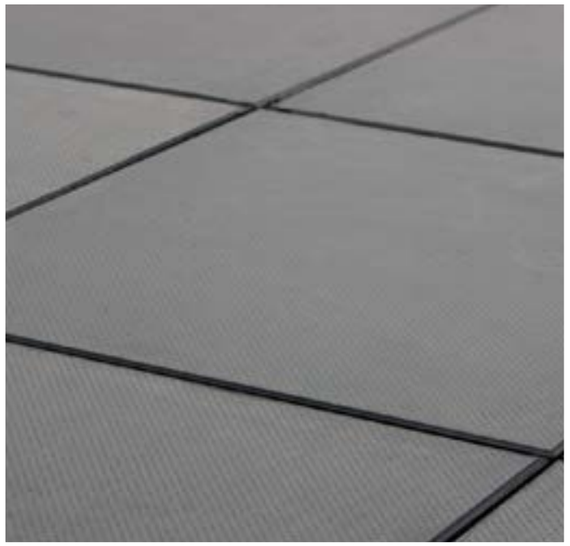
OPAQUE PV GLASS

CELL DENSITY

- LOW 111 W/M²
- MEDIUM 141 W/M²
- HIGH 173 W/M²
- **OPAQUE** 180 W/M²

CHARACTERISTICS OF THE GLASS

Peak Power (Wp/m²)	140 Wp per m²
Visible light transmittance	0%



ENVIRONMENTAL BENEFITS ROME

Renewable energy generated	4.094 KWh per m²
Kg of CO_2 avoided	1.048 Kg per m²
Kilometres driven in an electric car	23.541 Km per m²
Light points fed	8 per m²/day

ECONOMIC BENEFITS ROME*

Value of the renewable energy generated	1.571 € per m²
Return on investment	5,63 times
Internal rate of return (IRR)	13,23%
Payback time	9 years
Building's value increase**	637 € per m²

RESULTS IN OTHER LOCATIONS OF ITALY

Electricity generated (Milan)	3.496 KWh per m²
Payback time (Milan)	10,53 years
Electricity generated (Naples)	4.646 KWh per m²
Payback time (Naples)	7,9 years
Electricity generated (Palermo)	5.038 KWh per m²
Payback time (Palermo)	7,3 years

DATA CONSIDERED FOR CALCULATIONS

Tilt: 0°

Orientation: S

WALKABLE PV FLOOR

ITALY

CRYSTALLINE SILICON TECHNOLOGY

PV ESTIMATION TOOL

Calculate the energy produced in any location.

ENERGY LOSSES PER ORIENTATION

LEED BREEAM

Onyx facilitates obtaining recognized sustainability certifications for buildings like LEED or BREEAM.

EVERY SQUARE METER PLANTS ONE TREE

We plant one tree for every m² of PV glass we produce. Each tree absorbs an average of 10 Kg of CO2 per year.

Data Calculated for a 35-year useful life.

* The prices considered are merely indicative and may vary depending on the installed glass surface. The data provided in this feasibility study in no case involves a contractual obligation.

** According to the US Department of Energy & Environment a sustainable building will obtain an increase of value between 10 and 20 USD for every USD generated by renewable energy.

FEASIBILITY STUDY ROME

MEDIUM CELL DENSITY PV GLASS

CELL DENSITY

LOW	111 W/M²	43%
MEDIUM	141 W/M²	28%
HIGH	173 W/M²	11%
OPAQUE	180 W/M²	0%

VISIBLE LIGHT TRANSMITTANCE

CHARACTERISTICS OF THE GLASS

Peak Power (Wp/m²)	141 Wp per m²
Visible light transmittance	28%

ENVIRONMENTAL BENEFITS ROME

Renewable energy generated	4.549 KWh per m²
Kg of CO_2 avoided	1.164 Kg per m²
Kilometres driven in an electric car	26.158 Km per m²
Light points fed	9 per m²/day

ECONOMIC BENEFITS ROME*

Value of the renewable energy generated	1.712 € per m²
Return on investment	12,62 times
Internal rate of return (IRR)	28 %
Payback time	4 years
Building's value increase**	708 € per m²

RESULTS IN OTHER LOCATIONS OF ITALY

Electricity generated (Milan)	3.866 KWh per m²
Payback time (Milan)	4,5 years
Electricity generated (Naples)	5.140 KWh per m²
Payback time (Naples)	3 years
Electricity generated (Palermo)	5.595 KWh per m²
Payback time (Palermo)	2,8 years

DATA CONSIDERED FOR CALCULATIONS

Tilt: 30°

Orientation: S

ENERGY LOSSES PER ORIENTATION

Trento
Milan
Verona
Turin
Genoa
Bologna
Ravenna
Florence
Perugia
Rome
Foggia
Bari
Naples
Sassari
Cagliari
Palermo

PV SKYLIGHT

ITALY

CRYSTALLINE SILICON TECHNOLOGY

PV ESTIMATION TOOL

Calculate the energy produced in any location.

LEED BREEAM

Onyx facilitates obtaining recognized sustainability certifications for buildings like LEED or BREEAM.

EVERY SQUARE METER PLANTS ONE TREE

We plant one tree for every m² of PV glass we produce. Each tree absorbs an average of 10 Kg of CO2 per year.

Data Calculated for a 35-year useful life.

* The prices considered are merely indicative and may vary depending on the installed glass surface. The data provided in this feasibility study in no case involves a contractual obligation.

** According to the US Department of Energy & Environment a sustainable building will obtain an increase of value between 10 and 20 USD for every USD generated by renewable energy.

FEASIBILITY STUDY ROME

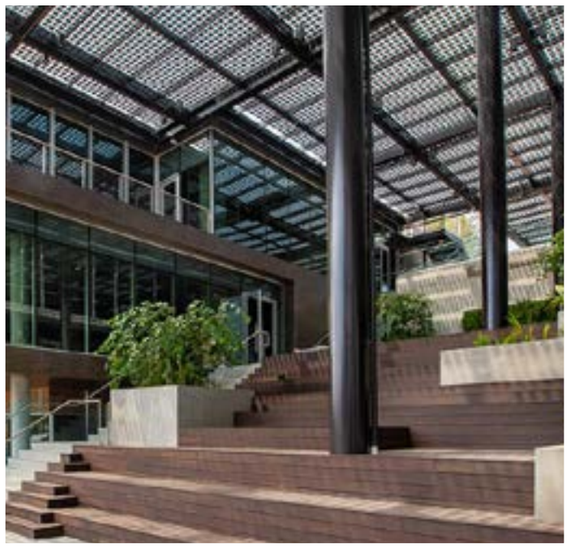
HIGH CELL DENSITY

CELL DENSITY

LOW 111 W/M²	43%	
MEDIUM 141 W/M²	28%	
HIGH 173 W/M²	11%	VISIBLE LIGHT TRANSMITTANCE
OPAQUE 180 W/M²	0%	

CHARACTERISTICS OF THE GLASS

Peak Power (Wp/m²)	173 Wp per m²
Visible light transmittance	11%



ENVIRONMENTAL BENEFITS ROME

Renewable energy generated	5.023 KWh per m²
Kg of CO_2 avoided	1.285 Kg per m²
Kilometres driven in an electric car	37.068 Km per m²
Light points fed	12,67 per m²/day

ECONOMIC BENEFITS ROME*

Value of the renewable energy generated	1.510 € per m²
Return on investment	13,7 times
Internal rate of return (IRR)	28,9 %
Payback time	4 years
Building's value increase**	781 € per m²

RESULTS IN OTHER LOCATIONS OF ITALY

Electricity generated (Milan)	4.269 KWh per m²
Payback time (Milan)	4,5 years
Electricity generated (Naples)	5.675 KWh per m²
Payback time (Naples)	3 years
Electricity generated (Palermo)	6.178 KWh per m²
Payback time (Palermo)	2,8 years

DATA CONSIDERED FOR CALCULATIONS

Tilt: 0°

Orientation: S

ENERGY LOSSES PER ORIENTATION

PV CANOPY

ITALY

CRYSTALLINE SILICON TECHNOLOGY

PV ESTIMATION TOOL

Calculate the energy produced in any location.

LEED BREEAM

Onyx facilitates obtaining recognized sustainability certifications for buildings like LEED or BREEAM.

EVERY SQUARE METER PLANTS ONE TREE

We plant one tree for every m² of PV glass we produce. Each tree absorbs an average of 10 Kg of CO2 per year.

Data Calculated for a 35-year useful life.

* The prices considered are merely indicative and may vary depending on the installed glass surface. The data provided in this feasibility study in no case involves a contractual obligation.

** According to the US Department of Energy & Environment a sustainable building will obtain an increase of value between 10 and 20 USD for every USD generated by renewable energy.

FEASIBILITY STUDY ROME

HIGH CELL DENSITY PV GLASS

CELL DENSITY

LOW 111 W/M²	43%	
MEDIUM 141 W/M²	28%	
HIGH 173 W/M²	11%	← VISIBLE LIGHT TRANSMITTANCE
OPAQUE 180 W/M²	0%	

CHARACTERISTICS OF THE GLASS

Peak Power (Wp/m²)	173 Wp per m²
Visible light transmittance	11%

ENVIRONMENTAL BENEFITS ROME

Renewable energy generated	5.581 KWh per m²
Kg of CO_2 avoided	1.428 Kg per m²
Kilometres driven in an electric car	32.094 Km per m²
Light points fed	10,97 per m²/day

ECONOMIC BENEFITS ROME*

Value of the renewable energy generated	2.100€ per m²
Return on investment	14,5 times
Internal rate of return (IRR)	31,9 %
Payback time	4 years
Building's value increase**	868 € per m²

RESULTS IN OTHER LOCATIONS OF ITALY

Electricity generated (Milan)	4.743 KWh per m²
Payback time (Milan)	4,5 years
Electricity generated (Naples)	6,306 KWh per m²
Payback time (Naples)	3 years
Electricity generated (Palermo)	6.864 KWh per m²
Payback time (Palermo)	2,8 years

DATA CONSIDERED FOR CALCULATIONS

Tilt: 40°

Orientation: S

PV BRISE SOLEIL

ITALY

CRYSTALLINE SILICON TECHNOLOGY

PV ESTIMATION TOOL

Calculate the energy produced in any location.

ENERGY LOSSES PER ORIENTATION

Onyx facilitates obtaining recognized sustainability certifications for buildings like LEED or BREEAM.

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Data Calculated for a 35-year useful life.

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FEASIBILITY STUDY ROME

OPAQUE PV GLASS

CELL DENSITY

- LOW 111 W/M² — 43%
- MEDIUM 141 W/M² — 28%
- HIGH 173 W/M² — 11%
- **OPAQUE** 180 W/M² — 0%

VISIBLE LIGHT TRANSMITTANCE

CHARACTERISTICS OF THE GLASS

Peak Power (Wp/m²)	180 Wp per m²
Visible light transmittance	0%

ENVIRONMENTAL BENEFITS ROME

Renewable energy generated	3.558 KWh per m²
Kg of CO_2 avoided	910 Kg per m²
Kilometres driven in an electric car	20.460 Km per m²
Light points fed	7 per m²/day

ECONOMIC BENEFITS ROME*

Value of the renewable energy generated	1.339 € per m²
Return on investment	8,07 times
Internal rate of return (IRR)	18,49 %
Payback time	6 years
Building's value increase**	553 € per m²

RESULTS IN OTHER LOCATIONS OF ITALY

Electricity generated (Milan)	3.024 KWh per m²
Payback time (Milan)	7 years
Electricity generated (Naples)	4.020 KWh per m²
Payback time (Naples)	5,3 years
Electricity generated (Palermo)	4.376 KWh per m²
Payback time (Palermo)	4,87 years

DATA CONSIDERED FOR CALCULATIONS

Tilt: 90°

Orientation: S

PV NOISE BARRIER

ITALY

CRYSTALLINE SILICON TECHNOLOGY

PV ESTIMATION TOOL

Calculate the energy produced in any location.

ENERGY LOSSES PER ORIENTATION

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GLOBAL EPD

SCAN THE QR TO DOWNLOAD OUR EPD

GlobalEPD
A VERIFIED ENVIRONMENTAL DECLARATION

ECO PLATFORM EPD VERIFIED

Environmental Product Declaration

EN ISO 14025:2010
EN 15804:2012+A2:2019

AENOR

CRYSTALLINE PHOTOVOLTAIC SOLAR GLASS

G/GM07244
G/GM07211
G/GM03644
G/GM01688A

First publication date: 31-01-2024
Expiry date: 30-01-2029

The declared validity is to registration and publication on www.aenor.com

GlobalEPD Code: GlobalEPD EN15804-063

The Environmental Product Declaration (EPD) is a certified document that provides our clients with reliable, verified, and transparent information regarding the environmental impact throughout the life cycle of a product. This information is based on a **Life Cycle Analysis (LCA)** study conducted in accordance with the Product Category Rules (PCR) developed by the Eco-labeling Program. In our specific case, the study has been carried out under the **Product Category Rule for Construction Products UNE EN 15804:2012+A2.**

ECO PLATFORM & AENOR

ECO Platform is a European Association made up of DAP Verification Program Administrators, industrial associations, and life cycle analysis experts, which guarantees the quality and conformity of environmental declarations of construction products in accordance with ISO 14025 and EN 15084 Standards. ECO Platform represents a common pan-European framework for DAPs. The Programs commit to common quality and verification criteria, which are regularly audited.

AENOR is a founding member of ECO Platform and passed audits in 2014 to issue Environmental Declarations with the ECO Platform EPD EN 15804 VERIFIED™ logo, being one of the first four European Administrators along with International EPD System (Sweden), IBU (Germany) and BAU EPD (Austria).


» ISRAEL


» ESPAÑA


» EEUU


» DUBAI


» FRANCIA


» ESLOVAQUIA


» ESPAÑA


» ESPAÑA


» ARABIA SAUDITA


» MEXICO

» NIGERIA

» PAÍSES BAJOS

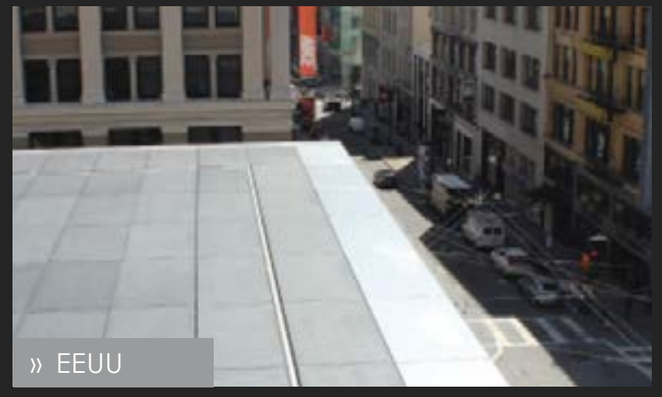
» EEUU

» ESPAÑA

» EEUU

» DUBAI

» DINAMARCA



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UNLOCKING THE POWER OF PHOTOVOLTAIC GLASS:

Are you curious about the potential of photovoltaic (PV) glass for your project? Our team at Onyx Solar is here to guide you through the process and help you harness the benefits of this innovative technology.

WHAT DOES PV GLASS BRING TO YOUR PROJECT?

✓ **Energy Generation:** PV glass generates clean electricity from sunlight, reducing your reliance on traditional power sources.

✓ **Aesthetic Integration:** Say goodbye to bulky solar panels! PV glass blends seamlessly with architectural designs, enhancing the visual appeal of your building.

✓ **Environmental Impact:** By using PV glass, you contribute to reducing carbon emissions. Imagine the positive impact on our planet!

HOW ONYX SOLAR CAN ASSIST YOU

Our technical team offers free feasibility studies tailored to your project. Here's what we provide:

·**Product Datasheets:** Detailed information about our PV glass products, including technical specifications.

·**Shop Drawings:** Visual representations to aid in your design process.

·**Energy Estimates:** Understand the potential energy output based on your installation.

·**CO_2 Emissions Prevented:** Quantify the environmental benefits of using PV glass.

·**Cost Analysis:** Get a clear picture of the investment required.

·**Payback and ROI:** Evaluate the financial returns over time.

·**Tax Credits and Incentives:** Explore available incentives to make an informed decision.

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