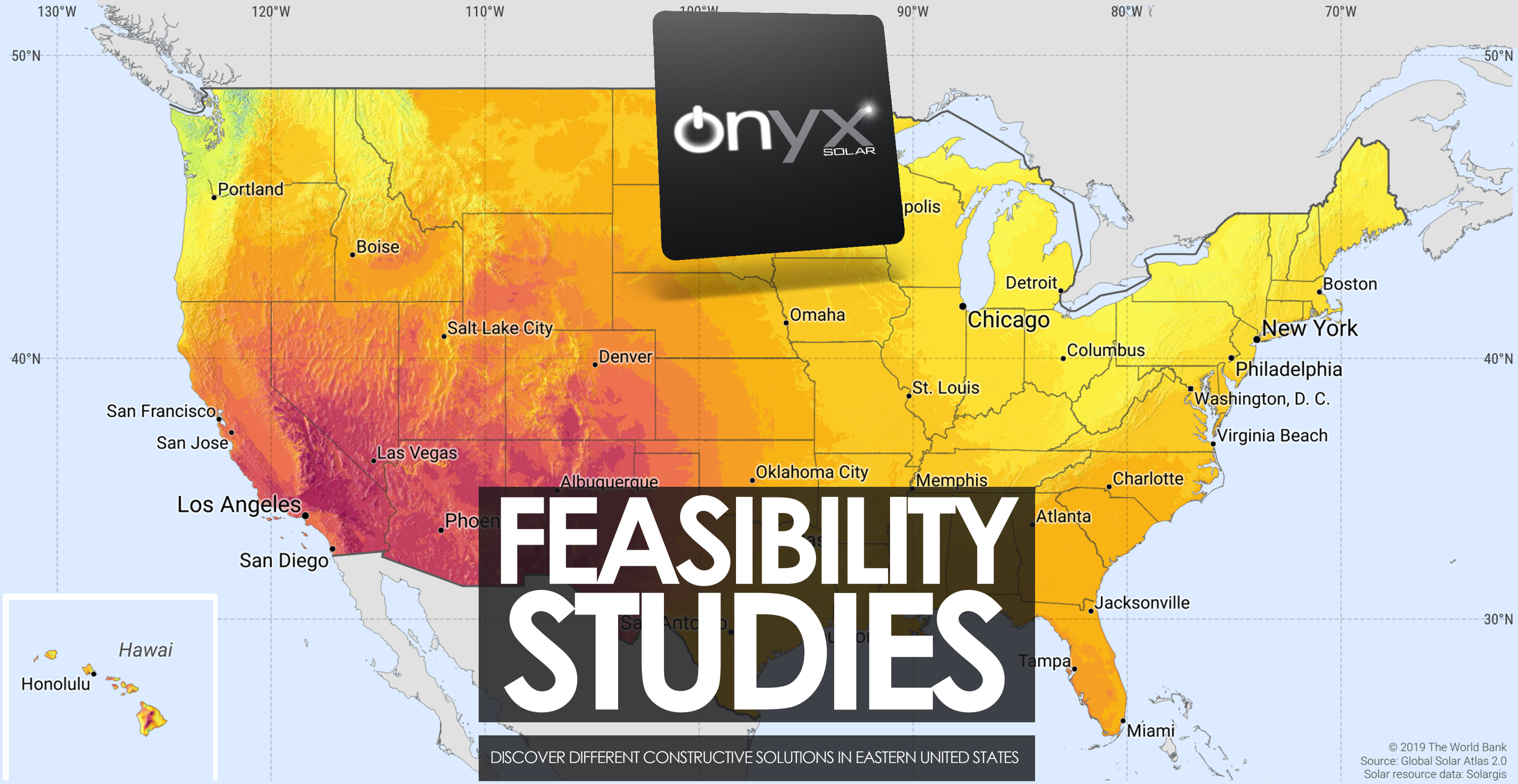

onyx
SOLAR
FEASIBILITY
STUDIES
DISCOVER DIFFERENT CONSTRUCTIVE SOLUTIONS IN EASTERN UNITED STATES
130°W
120°W
110°W
90°W
80°W
70°W
50°N
40°N
30°N
Portland
Boise
Salt Lake City
Denver
Omaha
Chicago
Detroit
Boston
New York
Columbus
Philadelphia
Washington, D. C.
Virginia Beach
St. Louis
Oklahoma City
Memphis
Charlotte
Atlanta
Jacksonville
Tampa
Miami
San Francisco
San Jose
Las Vegas
Albuquerque
Los Angeles
San Diego
Hawai
Honolulu
© 2019 The World Bank
Source: Global Solar Atlas 2.0
Solar resource data: Solargis

FEASIBILITY STUDY NEW YORK

HIDDEN PV IN WHITE COLOR

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

CHARACTERISTICS OF THE GLASS

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

ENVIRONMENTAL BENEFITS NEW YORK

Renewable energy	2,997 KWh per sqm
LBS. of CO_2 avoided	1,250 LBS. per sqm
Miles driven in an electric car	10,712 Mi per sqm
Light points fed	6 per sqm/day

ECONOMIC BENEFITS NEW YORK*

Value of the renewable energy	$608 per sqm
Return on investment	6 times
Internal rate of return (IRR)	83.96%
Payback time	1 year
Building's value increase**	$300 per sqm

RESULTS IN OTHER LOCATIONS OF EASTERN UNITED STATES

Renewable energy (Houston)	2,727 KWh per sqm
Payback time (Houston)	1,1 years
Renewable energy (Miami)	2,877 KWh per sqm
Payback time (Miami)	1 year
Renewable energy (Chicago)	2,907 KWh per sqm
Payback time (Chicago)	1 year

DATA CONSIDERED FOR CALCULATIONS

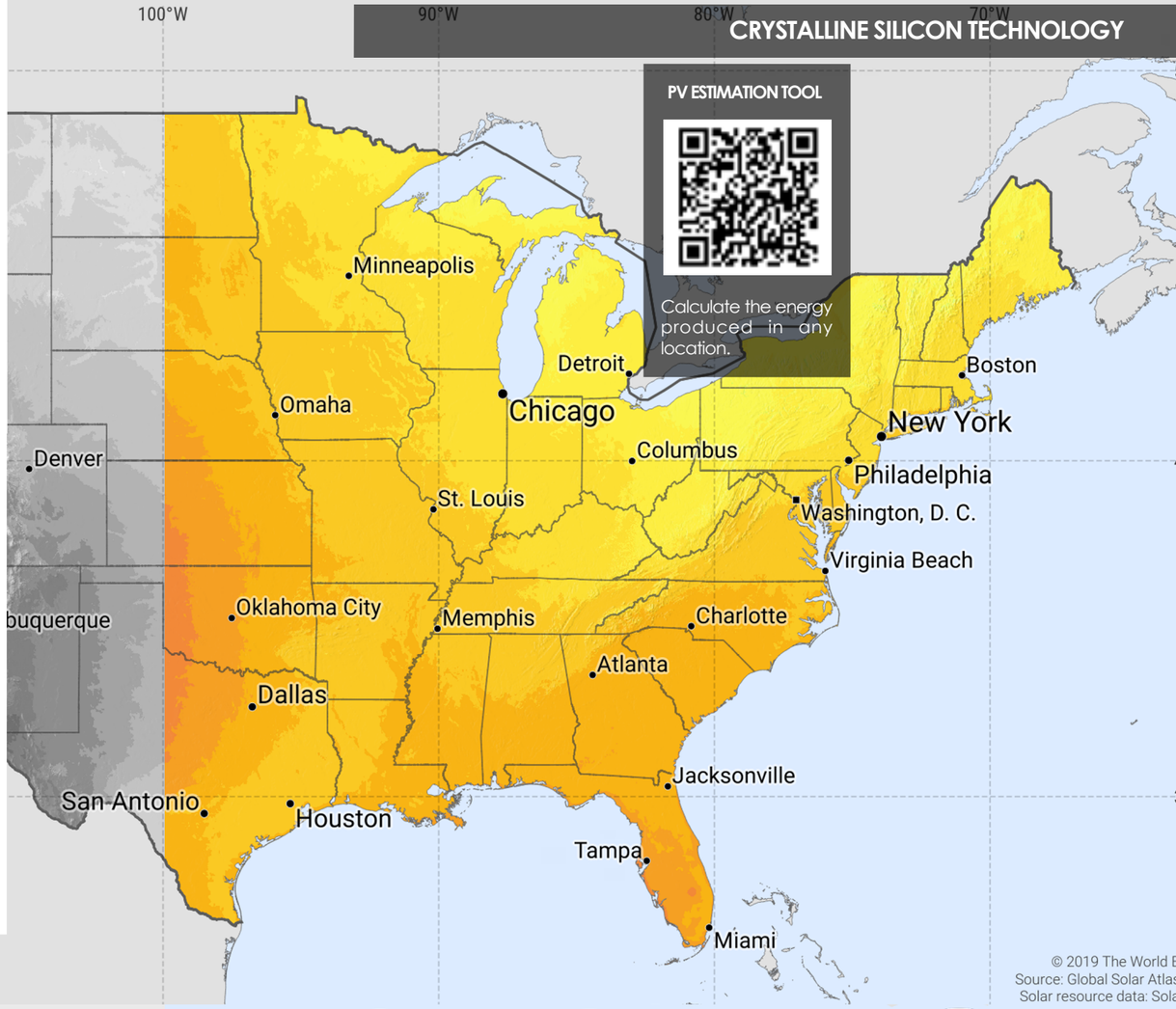
Tilt: 90°

Orientation: S

PV FAÇADE / BALCONY

EASTERN UNITED STATES

CRYSTALLINE SILICON TECHNOLOGY



ENERGY LOSSES PER ORIENTATION

	W	N	E
New York	-24%	-65%	-23%
Houston	-10%	-57%	-8%
Miami	-15%	-59%	-4%
Chicago	-22%	-63%	-22%

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

We plant one tree for every sqm of PV glass we produce. Each tree absorbs an average of 20 LBS. 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 NEW YORK

HIDDEN PV IN WHITE COLOR

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

CHARACTERISTICS OF THE GLASS

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

ENVIRONMENTAL BENEFITS NEW YORK

Renewable energy	4,342 KWh per sqm
LBS. of CO_2 avoided	1,820 LBS. per sqm
Miles driven in an electric car	15.518 Mi per sqm
Light points fed	8.53 per sqm/day

ECONOMIC BENEFITS NEW YORK*

Value of the renewable energy	$880 per sqm
Return on investment	8 times
Internal rate of return (IRR)	92.98%
Payback time	1 year
Building's value increase**	$435 per sqm

RESULTS IN OTHER LOCATIONS OF EASTERN UNITED STATES

Renewable energy (Houston)	3,951 KWh per sqm
Payback time (Houston)	1.2 years
Renewable energy (Miami)	4,906 KWh per sqm
Payback time (Miami)	1 year
Renewable energy (Chicago)	4,168 KWh per sqm
Payback time (Chicago)	1 year

DATA CONSIDERED FOR CALCULATIONS

Tilt: 30°

Orientation: S

HIDDEN PV ROOF

EASTERN UNITED STATES

CRYSTALLINE SILICON TECHNOLOGY

ENERGY LOSSES PER ORIENTATION

	W	N	E
New York	-24%	-65%	-23%
Houston	-15%	-35%	-14%
Miami	-18%	-36%	-12%
Chicago	-22%	-52%	-22%

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

We plant one tree for every sqm of PV glass we produce. Each tree absorbs an average of 20 LBS. of CO2 per year.

Data Calculated for a 35-year useful life.

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FEASIBILITY STUDY NEW YORK

OPAQUE PV GLASS

CELL DENSITY

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

VISIBLE LIGHT TRANSMITTANCE

CHARACTERISTICS OF THE GLASS

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

ENVIRONMENTAL BENEFITS NEW YORK

Renewable energy	4.905 KWh per sqm
LBS. of CO_2 avoided	2.045 LBS. per sqm
Miles driven in an electric car	17,529 Mi per sqm
Light points fed	9.64 per sqm/day

ECONOMIC BENEFITS NEW YORK*

Value of the renewable energy	$994 per sqm
Return on investment	7 times
Internal rate of return (IRR)	42,88%
Payback time	1 year
Building's value increase**	$491 per sqm

RESULTS IN OTHER LOCATIONS OF EASTERN UNITED STATES

Renewable energy (Houston)	3,974 KWh per sqm
Payback time (Houston)	1,1 years
Renewable energy (Miami)	4,918 KWh per sqm
Payback time (Miami)	1.1 years
Renewable energy (Chicago)	4,916 KWh per sqm
Payback time (Chicago)	1.1 years

DATA CONSIDERED FOR CALCULATIONS

Tilt: 90°

Orientation: S

PV DOUBLE SKIN / SPANDREL

EASTERN UNITED STATES

CRYSTALLINE SILICON TECHNOLOGY

ENERGY LOSSES PER ORIENTATION

	W	N	E
New York	-24%	-65%	-23%
Houston	-10%	-57%	-8%
Miami	-15%	-59%	-4%
Chicago	-22%	-63%	-22%

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

We plant one tree for every sqm of PV glass we produce. Each tree absorbs an average of 20 LBS. 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 NEW YORK

MEDIUM CELL DENSITY PV GLASS

CELL DENSITY

VISIBLE LIGHT TRANSMITTANCE

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

CHARACTERISTICS OF THE GLASS

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

ENVIRONMENTAL BENEFITS NEW YORK

Renewable energy	3,842 KWh per sqm
LBS. of CO_2 avoided	1,602 LBS. per sqm
Miles driven in an electric car	13,731 Mi per sqm
Light points fed	7.6 per sqm/day

ECONOMIC BENEFITS NEW YORK*

Value of the renewable energy	$779 per sqm
Return on investment	4.76 times
Internal rate of return (IRR)	35,91%
Payback time	1 year
Building's value increase**	$385 per sqm

RESULTS IN OTHER LOCATIONS OF EASTERN UNITED STATES

Renewable energy (Houston)	3.496 KWh per sqm
Payback time (Houston)	1.2 years
Renewable energy (Miami)	3.726 KWh per sqm
Payback time (Miami)	1.1 years
Renewable energy (Chicago)	3.809 KWh per sqm
Payback time (Chicago)	1.1 years

DATA CONSIDERED FOR CALCULATIONS

Tilt: 90°

Orientation: S

PV CURTAIN WALL

EASTERN UNITED STATES

CRYSTALLINE SILICON TECHNOLOGY

ENERGY LOSSES PER ORIENTATION

	W	N	E
New York	-24%	-65%	-23%
Houston	-10%	-57%	-8%
Miami	-15%	-59%	-4%
Chicago	-22%	-63%	-22%

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We plant one tree for every sqm of PV glass we produce. Each tree absorbs an average of 20 LBS. of CO2 per year.

Data Calculated for a 35-year useful life.

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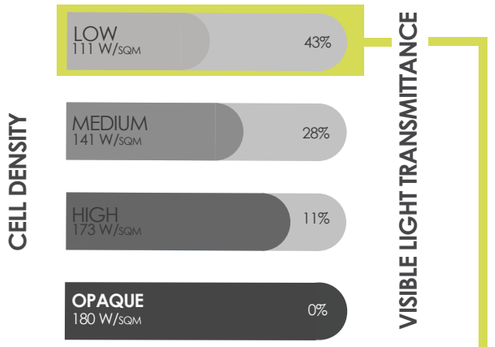
FEASIBILITY STUDY NEW YORK

LOW CELL DENSITY PV GLASS



CHARACTERISTICS OF THE GLASS

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

ENVIRONMENTAL BENEFITS NEW YORK

Renewable energy	3,024 KWh per sqm
LBS. of CO_2 avoided	1,261 LBS. per sqm
Miles driven in an electric car	10,810 Mi per sqm
Light points fed	6 per sqm/day

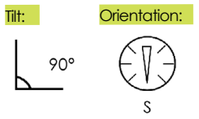
ECONOMIC BENEFITS NEW YORK*

Value of the renewable energy	$613 per sqm
Return on investment	4.56 times
Internal rate of return (IRR)	40.17%
Payback time	1 year
Building's value increase**	$303 per sqm

RESULTS IN OTHER LOCATIONS OF EASTERN UNITED STATES

Renewable energy (Houston)	2,751 KWh per sqm
Payback time (Houston)	1,1 years
Renewable energy (Miami)	2,933 KWh per sqm
Payback time (Miami)	1.1 years
Renewable energy (Chicago)	2,903 KWh per sqm
Payback time (Chicago)	1.1 years

DATA CONSIDERED FOR CALCULATIONS



PV BALUSTRADE / BALCONY

EASTERN UNITED STATES

CRYSTALLINE SILICON TECHNOLOGY

ENERGY LOSSES PER ORIENTATION

	W	N	E
New York	-24%	-65%	-23%
Houston	-10%	-57%	-8%
Miami	-15%	-59%	-4%
Chicago	-22%	-63%	-22%

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

We plant one tree for every sqm of PV glass we produce. Each tree absorbs an average of 20 LBS. 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 NEW YORK

OPAQUE PV GLASS

CELL DENSITY

- LOW 111 W/SQM
- MEDIUM 141 W/SQM
- HIGH 173 W/SQM
- OPAQUE 180 W/SQM

CHARACTERISTICS OF THE GLASS

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

ENVIRONMENTAL BENEFITS NEW YORK

Renewable energy	4,661 KWh per sqm
LBS. of CO_2 avoided	1,943 LBS. per sqm
Miles driven in an electric car	16,658 Mi per sqm
Light points fed	9.16 per sqm/day

ECONOMIC BENEFITS NEW YORK*

Value of the renewable energy	$945 per sqm
Return on investment	4,22 times
Internal rate of return (IRR)	29.78%
Payback time	1 year
Building's value increase**	$467 per sqm

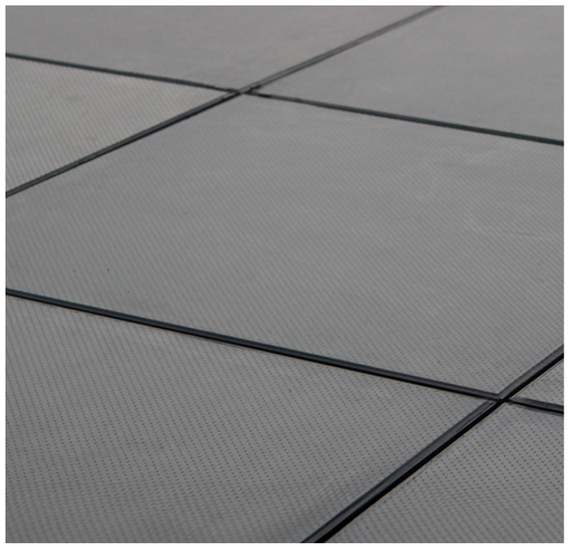
RESULTS IN OTHER LOCATIONS OF EASTERN UNITED STATES

Renewable energy (Houston)	4,288 KWh per sqm
Payback time (Houston)	1.2 years
Renewable energy (Miami)	5,266 KWh per sqm
Payback time (Miami)	1.1 years
Renewable energy (Chicago)	4,521 KWh per sqm
Payback time (Chicago)	1.1 years

DATA CONSIDERED FOR CALCULATIONS

Tilt: 0°

Orientation: S



WALKABLE PV FLOOR

EASTERN UNITED STATES

CRYSTALLINE SILICON TECHNOLOGY

ENERGY LOSSES PER ORIENTATION

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

We plant one tree for every sqm of PV glass we produce. Each tree absorbs an average of 20 LBS. 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 NEW YORK

MEDIUM CELL DENSITY PV GLASS

CELL DENSITY

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

VISIBLE LIGHT TRANSMITTANCE

CHARACTERISTICS OF THE GLASS

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

ENVIRONMENTAL BENEFITS NEW YORK

Renewable energy	5,566 KWh per sqm
LBS. of CO_2 avoided	2,321 LBS. per sqm
Miles driven in an electric car	19,891 Mi per sqm
Light points fed	11 per sqm/day

ECONOMIC BENEFITS NEW YORK*

Value of the renewable energy	$1,128 per sqm
Return on investment	9 times
Internal rate of return (IRR)	65.93%
Payback time	1 year
Building's value increase**	$557 per sqm

RESULTS IN OTHER LOCATIONS OF EASTERN UNITED STATES

Renewable energy (Houston)	5,065 KWh per sqm
Payback time (Houston)	1,1 years
Renewable energy (Miami)	6,289 KWh per sqm
Payback time (Miami)	1.1 years
Renewable energy (Chicago)	5,399 KWh per sqm
Payback time (Chicago)	1.1 years

DATA CONSIDERED FOR CALCULATIONS

Tilt: 30°

Orientation: S

PV SKYLIGHT

EASTERN UNITED STATES

CRYSTALLINE SILICON TECHNOLOGY

ENERGY LOSSES PER ORIENTATION

	W	N	E
New York	-24%	-65%	-23%
Houston	-15%	-35%	-14%
Miami	-18%	-36%	-12%
Chicago	-22%	-52%	-22%

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

We plant one tree for every sqm of PV glass we produce. Each tree absorbs an average of 20 LBS. of CO2 per year.

Data Calculated for a 35-year useful life.

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FEASIBILITY STUDY NEW YORK

HIGH CELL DENSITY

CELL DENSITY

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

VISIBLE LIGHT TRANSMITTANCE

CHARACTERISTICS OF THE GLASS

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

ENVIRONMENTAL BENEFITS NEW YORK

Renewable energy	5,719 KWh per sqm
LBS. of CO_2 avoided	2,385 LBS. per sqm
Miles driven in an electric car	20,439 Mi per sqm
Light points fed	11.24 per sqm/day

ECONOMIC BENEFITS NEW YORK*

Value of the renewable energy	$1,159 per sqm
Return on investment	8.12 times
Internal rate of return (IRR)	48.92%
Payback time	1 year
Building's value increase**	$573 per sqm

RESULTS IN OTHER LOCATIONS OF EASTERN UNITED STATES

Renewable energy (Houston)	5,204 KWh per sqm
Payback time (Houston)	1.2 years
Renewable energy (Miami)	6,462 KWh per sqm
Payback time (Miami)	1.1 years
Renewable energy (Chicago)	5,547 KWh per sqm
Payback time (Chicago)	1.1 years

DATA CONSIDERED FOR CALCULATIONS

Tilt: 0°

Orientation: S

PV CANOPY

EASTERN UNITED STATES

CRYSTALLINE SILICON TECHNOLOGY

ENERGY LOSSES PER ORIENTATION

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

We plant one tree for every sqm of PV glass we produce. Each tree absorbs an average of 20 LBS. of CO2 per year.

Data Calculated for a 35-year useful life.

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FEASIBILITY STUDY NEW YORK

HIGH CELL DENSITY PV GLASS

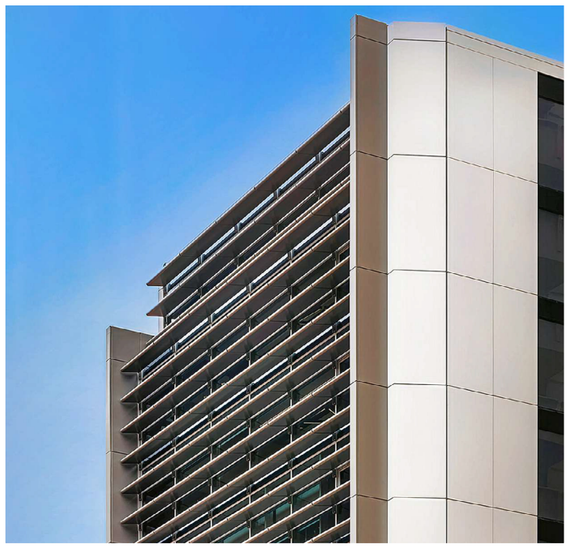
CELL DENSITY

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

VISIBLE LIGHT TRANSMITTANCE

CHARACTERISTICS OF THE GLASS

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



ENVIRONMENTAL BENEFITS NEW YORK

Renewable energy	6,829 KWh per sqm
LBS. of CO_2 avoided	2,847 LBS. per sqm
Miles driven in an electric car	24,406 Mi per sqm
Light points fed	13.42 per sqm/day

ECONOMIC BENEFITS NEW YORK*

Value of the renewable energy	$1,384 per sqm
Return on investment	9.51 times
Internal rate of return (IRR)	54.76%
Payback time	1 year
Building's value increase**	$684 per sqm

RESULTS IN OTHER LOCATIONS OF EASTERN UNITED STATES

Renewable energy (Houston)	6,214 KWh per sqm
Payback time (Houston)	1.2 years
Renewable energy (Miami)	7,716 KWh per sqm
Payback time (Miami)	1.1 years
Renewable energy (Chicago)	6,624 KWh per sqm
Payback time (Chicago)	1.1 years

DATA CONSIDERED FOR CALCULATIONS

Tilt: 40°

Orientation: S

PV BRISE SOLEIL

EASTERN UNITED STATES

CRYSTALLINE SILICON TECHNOLOGY

ENERGY LOSSES PER ORIENTATION

	W	N	E
New York	-24%	-65%	-23%
Houston	-15%	-35%	-14%
Miami	-18%	-36%	-12%
Chicago	-22%	-52%	-22%

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We plant one tree for every sqm of PV glass we produce. Each tree absorbs an average of 20 LBS. of CO2 per year.

Data Calculated for a 35-year useful life.

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FEASIBILITY STUDY NEW YORK

OPAQUE PV GLASS

CELL DENSITY

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

VISIBLE LIGHT TRANSMITTANCE

CHARACTERISTICS OF THE GLASS

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

ENVIRONMENTAL BENEFITS NEW YORK

Renewable energy	4,905 KWh per sqm
LBS. of CO_2 avoided	2,045 LBS. per sqm
Miles driven in an electric car	17,529 Mi per sqm
Light points fed	9.64 per sqm/day

ECONOMIC BENEFITS NEW YORK*

Value of the renewable energy	$994 per sqm
Return on investment	6.38 times
Internal rate of return (IRR)	42.17%
Payback time	1 year
Building's value increase**	$491 per sqm

RESULTS IN OTHER LOCATIONS OF EASTERN UNITED STATES

Renewable energy (Houston)	4,463 KWh per sqm
Payback time (Houston)	1.2 years
Renewable energy (Miami)	4,757 KWh per sqm
Payback time (Miami)	1.1 years
Renewable energy (Chicago)	4,708 KWh per sqm
Payback time (Chicago)	1.1 years

DATA CONSIDERED FOR CALCULATIONS

Tilt: 90°

Orientation: S

PV NOISE BARRIER

EASTERN UNITED STATES

CRYSTALLINE SILICON TECHNOLOGY

ENERGY LOSSES PER ORIENTATION

	W	N	E
New York	-24%	-65%	-23%
Houston	-10%	-57%	-8%
Miami	-15%	-59%	-4%
Chicago	-22%	-63%	-22%

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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

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).

GLOBAL EPD

SCAN THE QR TO DOWNLOAD OUR EPD

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.**

» ISRAEL

» ESPAÑA

» EEUU

» DUBAI

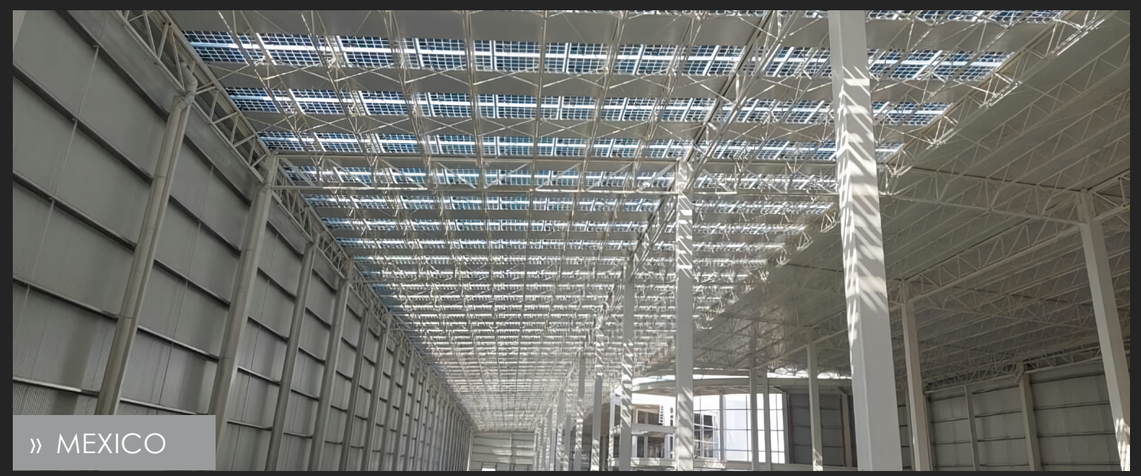
» FRANCIA

» ESLOVAQUIA

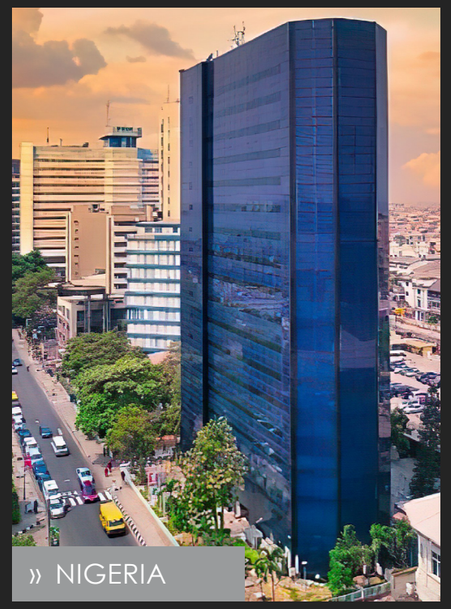
» ESPAÑA

» ESPAÑA

» ARABIA SAUDITA



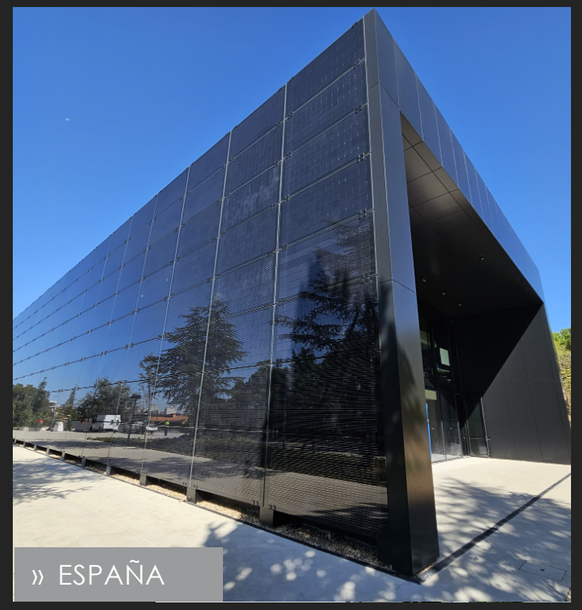
» MEXICO



» NIGERIA

» PAÍSES BAJOS

» EEUU

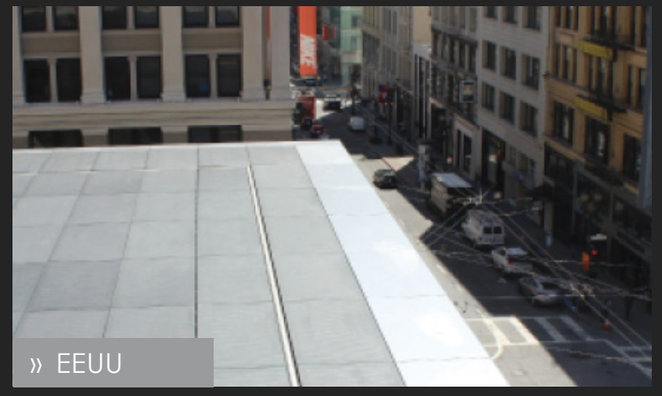


» ESPAÑA

» EEUU

» DUBAI

» DINAMARCA



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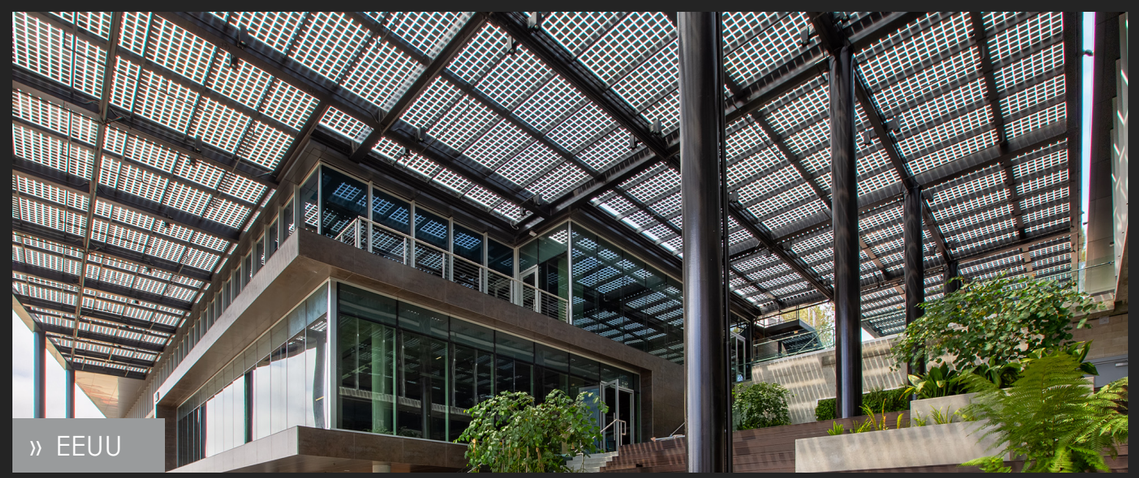

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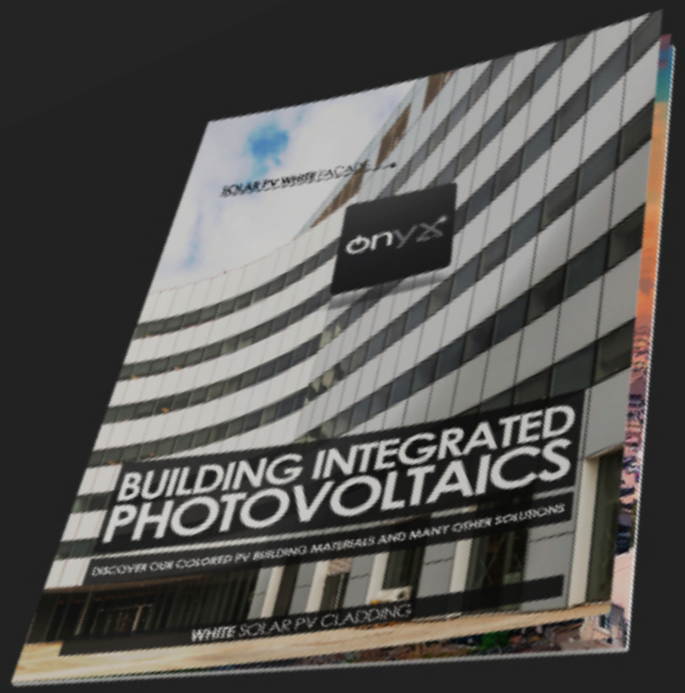

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UNLOCKING THE POWER OF PHOTOVOLTAIC GLASS:

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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