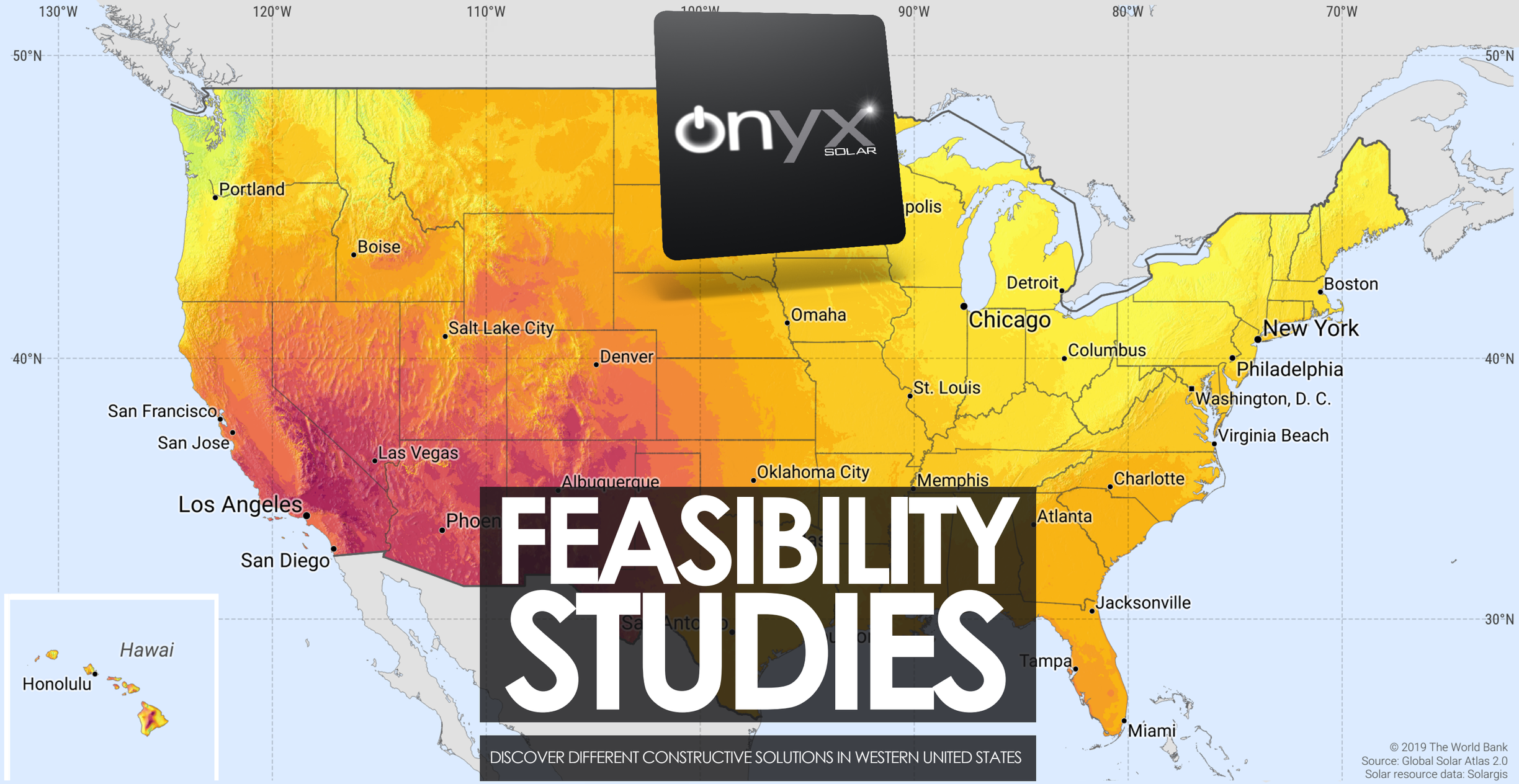

130°W
120°W
110°W
90°W
80°W
70°W
50°N
40°N
30°N
Portland
Boise
Salt Lake City
Denver
Omaha
Chicago
Detroit
Boston
New York
Columbus
Philadelphia
Washington, D. C.
Virginia Beach
St. Louis
Memphis
Charlotte
Atlanta
Jacksonville
Tampa
Miami
Oklahoma City
Albuquerque
Las Vegas
San Francisco
San Jose
Los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

FEASIBILITY STUDY LOS ANGELES

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 LOS ANGELES

Renewable energy	3,365 KWh per sqm
LBS. of CO_2 avoided	1,413 LBS. per sqm
Miles driven in an electric car	12,026 Mi per sqm
Light points fed	6,6 per sqft/day

ECONOMIC BENEFITS LOS ANGELES*

Value of the renewable energy	$831 per sqm
Return on investment	7,75 times
Internal rate of return (IRR)	96,98%
Payback time	1 year
Building's value increase**	$411 per sqm

RESULTS IN OTHER LOCATIONS OF WESTERN UNITED STATES

Renewable energy (Las Vegas)	3,334 KWh per sqm
Payback time (Las Vegas)	1 year
Renewable energy (Portland)	2,254 KWh per sqm
Payback time (Portland)	1 year
Renewable energy (Denver)	2,490 KWh per sqm
Payback time (Denver)	1 year

DATA CONSIDERED FOR CALCULATIONS

Tilt: 90°

Orientation: S

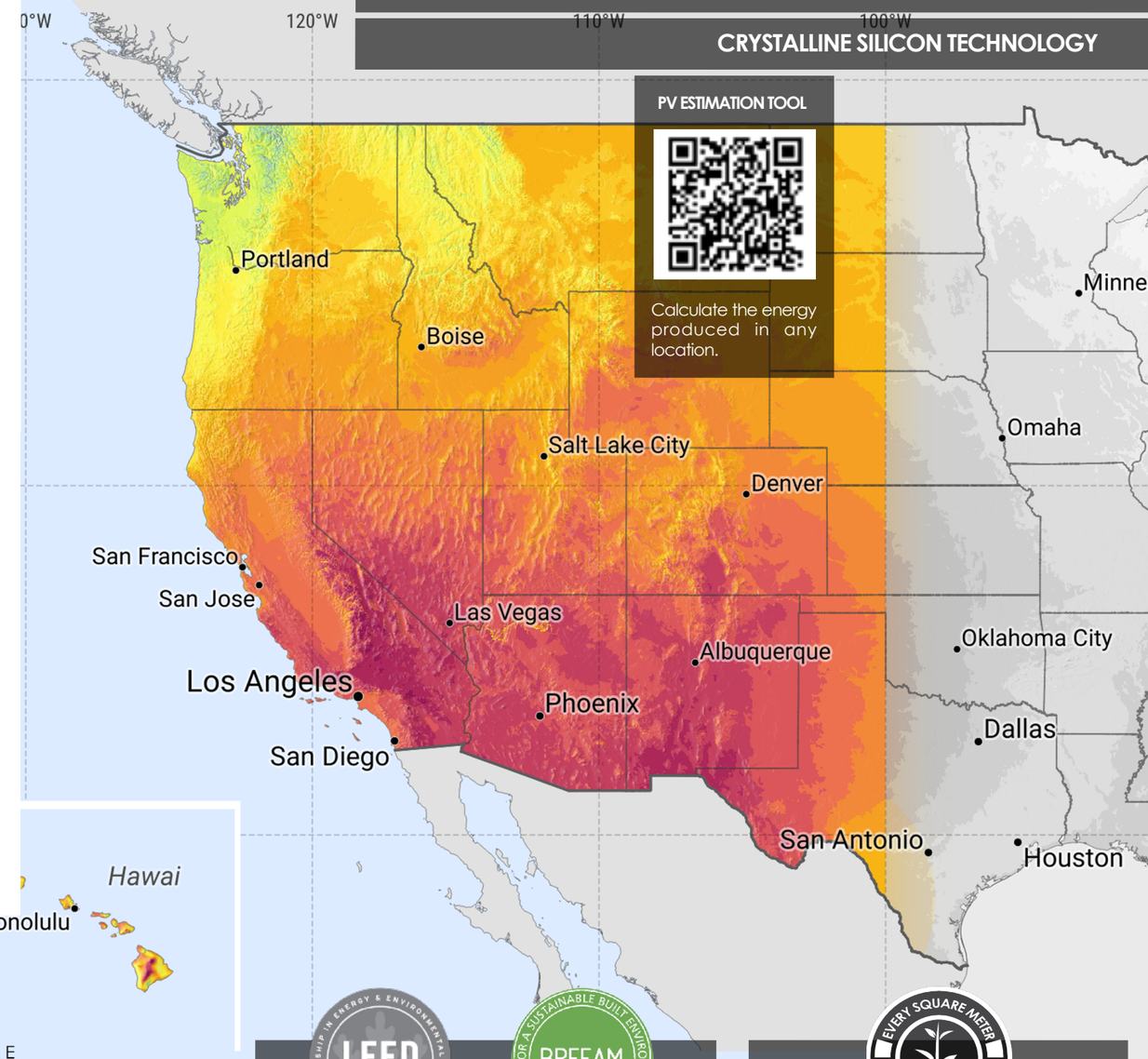
ENERGY LOSSES PER ORIENTATION

	W	N	E
Los Angeles	-10%	-66%	-22%
Las Vegas	-21%	-69%	-17%
Portland	-17%	-61%	-22%
Denver	-28%	-70%	-24%

PV FAÇADE / BALCONY

WESTERN UNITED STATES

CRYSTALLINE SILICON TECHNOLOGY



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

We plant one tree for every sqft of PV glass we produce. Each tree absorbs an average of 20 LBS. of CO_2 per year.

Data Calculated for a 35-year useful life.

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FEASIBILITY STUDY LOS ANGELES

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 LOS ANGELES

Renewable energy	5,411 KWh per sqm
LBS. of CO_2 avoided	2,272 LBS. per sqm
Miles driven in an electric car	19,338 Mi per sqm
Light points fed	10.63 per sqft/day

ECONOMIC BENEFITS LOS ANGELES*

Value of the renewable energy	$1,337 per sqm
Return on investment	11.45 times
Internal rate of return (IRR)	100%
Payback time	1 year
Building's value increase**	$660 per sqm

RESULTS IN OTHER LOCATIONS OF WESTERN UNITED STATES

Renewable energy (Las Vegas)	5.843 KWh per sqm
Payback time (Las Vegas)	1 year
Renewable energy (Portland)	4,112 KWh per sqm
Payback time (Portland)	1 year
Renewable energy (Denver)	3,625 KWh per sqm
Payback time (Denver)	1 year

DATA CONSIDERED FOR CALCULATIONS

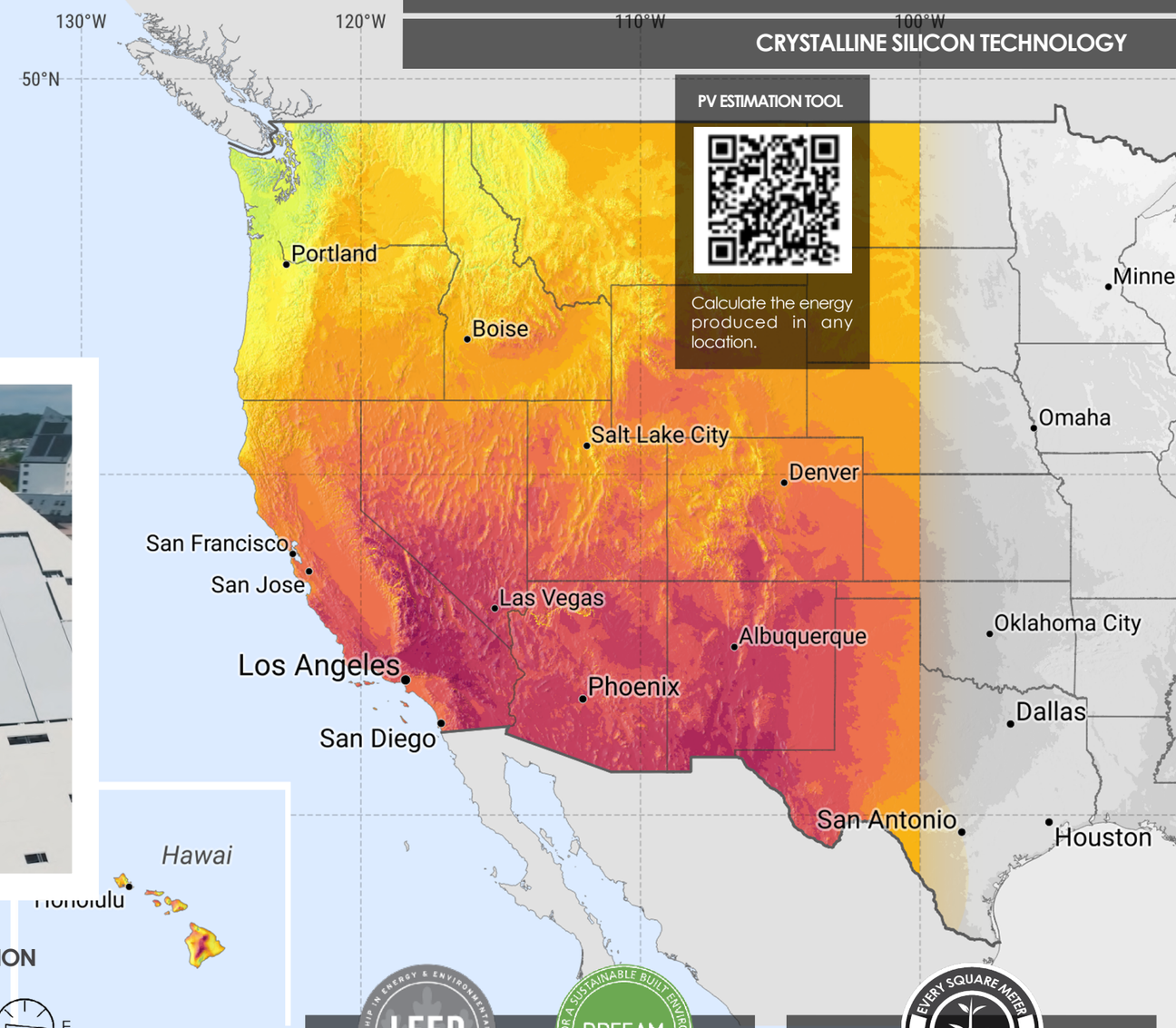
Tilt: 30°

Orientation: S

HIDDEN PV ROOF

WESTERN UNITED STATES

CRYSTALLINE SILICON TECHNOLOGY



PV ESTIMATION TOOL

Calculate the energy produced in any location.

ENERGY LOSSES PER ORIENTATION

	W	N	E
Los Angeles	-14%	-43%	-21%
Las Vegas	-21%	-46%	-18%
Portland	-19%	-51%	-23%
Denver	-27%	-58%	-24%

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FEASIBILITY STUDY LOS ANGELES

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 LOS ANGELES

Renewable energy	5,506 KWh per sqm
LBS. of CO_2 avoided	2,312 LBS. per sqm
Miles driven in an electric car	19,679 Mi per sqm
Light points fed	11 per sqft/day

ECONOMIC BENEFITS LOS ANGELES*

Value of the renewable energy	$1,360 per sqm
Return on investment	9,14 times
Internal rate of return (IRR)	54,59%
Payback time	1 year
Building's value increase**	$672 per sqm

RESULTS IN OTHER LOCATIONS OF WESTERN UNITED STATES

Renewable energy (Las Vegas)	5.946 KWh per sqm
Payback time (Las Vegas)	1 year
Renewable energy (Portland)	3,689 KWh per sqm
Payback time (Portland)	1 year
Renewable energy (Denver)	4,625 KWh per sqm
Payback time (Denver)	1 year

DATA CONSIDERED FOR CALCULATIONS

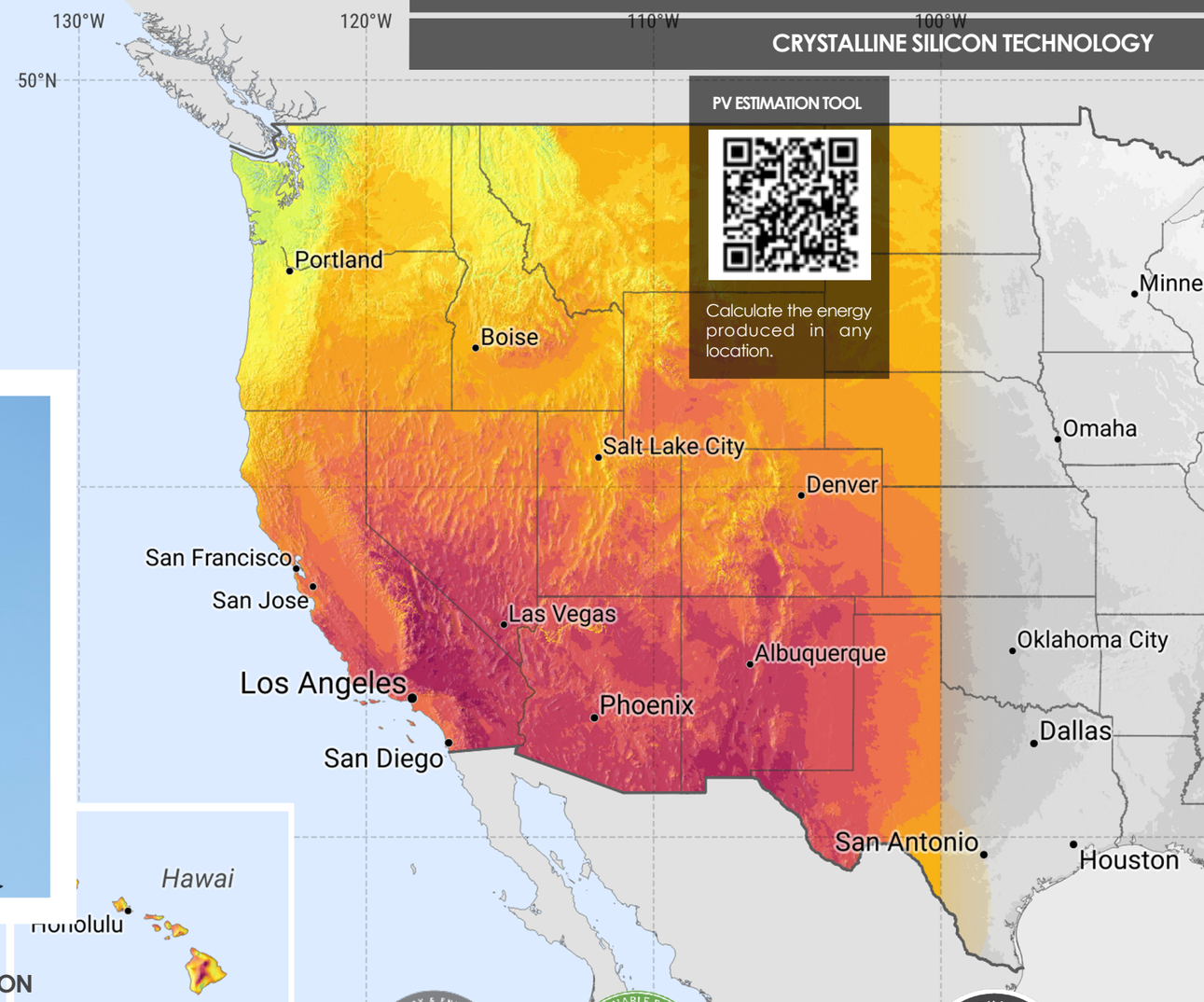
Tilt: 90°

Orientation: S

PV DOUBLE SKIN / SPANDREL

WESTERN UNITED STATES

CRYSTALLINE SILICON TECHNOLOGY



PV ESTIMATION TOOL

Calculate the energy produced in any location.

ENERGY LOSSES PER ORIENTATION

	W	N	E
Los Angeles	-10%	-66%	-22%
Las Vegas	-21%	-69%	-17%
Portland	-17%	-61%	-22%
Denver	-28%	-70%	-24%

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FEASIBILITY STUDY LOS ANGELES

MEDIUM CELL DENSITY PV GLASS

CELL DENSITY

LOW 111 W/SQM	43%	
MEDIUM 141 W/SQM	28%	← VISIBLE LIGHT TRANSMITTANCE
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 LOS ANGELES

Renewable energy	4,313 KWh per sqm
LBS. of CO_2 avoided	1,811 LBS. per sqm
Miles driven in an electric car	15,415 Mi per sqm
Light points fed	8.5 per sqft/day

ECONOMIC BENEFITS LOS ANGELES*

Value of the renewable energy	$1,066 per sqm
Return on investment	6.2 times
Internal rate of return (IRR)	45.44%
Payback time	1 year
Building's value increase**	$526 per sqm

RESULTS IN OTHER LOCATIONS OF WESTERN UNITED STATES

Renewable energy (Las Vegas)	4,658 KWh per sqm
Payback time (Las Vegas)	1 year
Renewable energy (Portland)	2,889 KWh per sqm
Payback time (Portland)	1 year
Renewable energy (Denver)	3,622 KWh per sqm
Payback time (Denver)	1 year

DATA CONSIDERED FOR CALCULATIONS

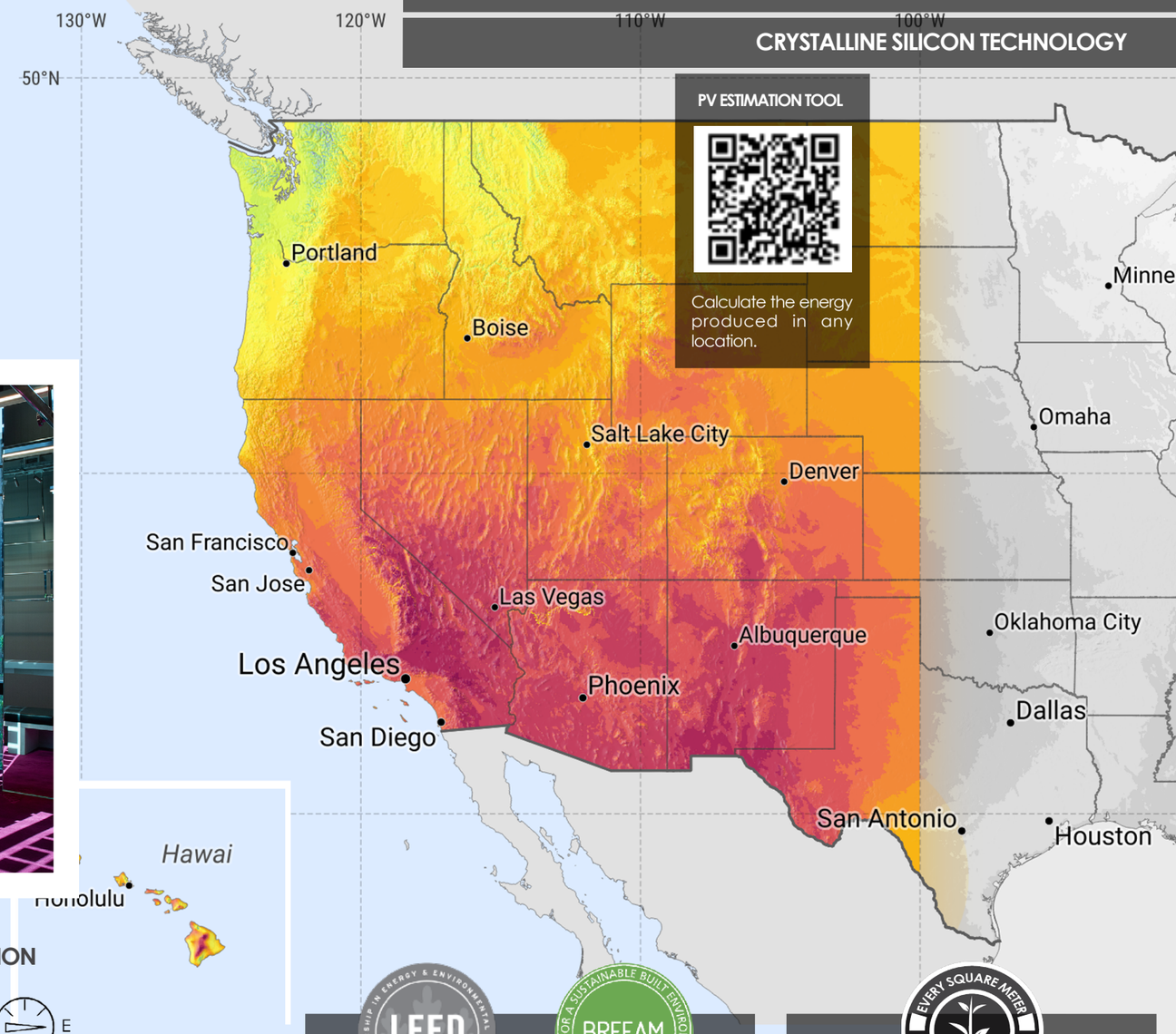
Tilt: 90°

Orientation: S

PV CURTAIN WALL

WESTERN UNITED STATES

CRYSTALLINE SILICON TECHNOLOGY



PV ESTIMATION TOOL

Calculate the energy produced in any location.

ENERGY LOSSES PER ORIENTATION

	W	N	E
Los Angeles	-10%	-66%	-22%
Las Vegas	-21%	-69%	-17%
Portland	-17%	-61%	-22%
Denver	-28%	-70%	-24%

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FEASIBILITY STUDY LOS ANGELES

LOW 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)	111 Wp per sqm
Visible light transmittance	43%

ENVIRONMENTAL BENEFITS LOS ANGELES

Renewable energy	3,395 KWh per sqm
LBS. of CO_2 avoided	1,426 LBS. per sqm
Miles driven in an electric car	12,135 Mi per sqm
Light points fed	6.7 per sqft/day

ECONOMIC BENEFITS LOS ANGELES*

Value of the renewable energy	$839 per sqm
Return on investment	5.87 times
Internal rate of return (IRR)	49.91%
Payback time	1 year
Building's value increase**	$414 per sqm

RESULTS IN OTHER LOCATIONS OF WESTERN UNITED STATES

Renewable energy (Las Vegas)	3,666 KWh per sqm
Payback time (Las Vegas)	1 year
Renewable energy (Portland)	2,274 KWh per sqm
Payback time (Portland)	1 year
Renewable energy (Denver)	2,851 KWh per sqm
Payback time (Denver)	1 year

DATA CONSIDERED FOR CALCULATIONS

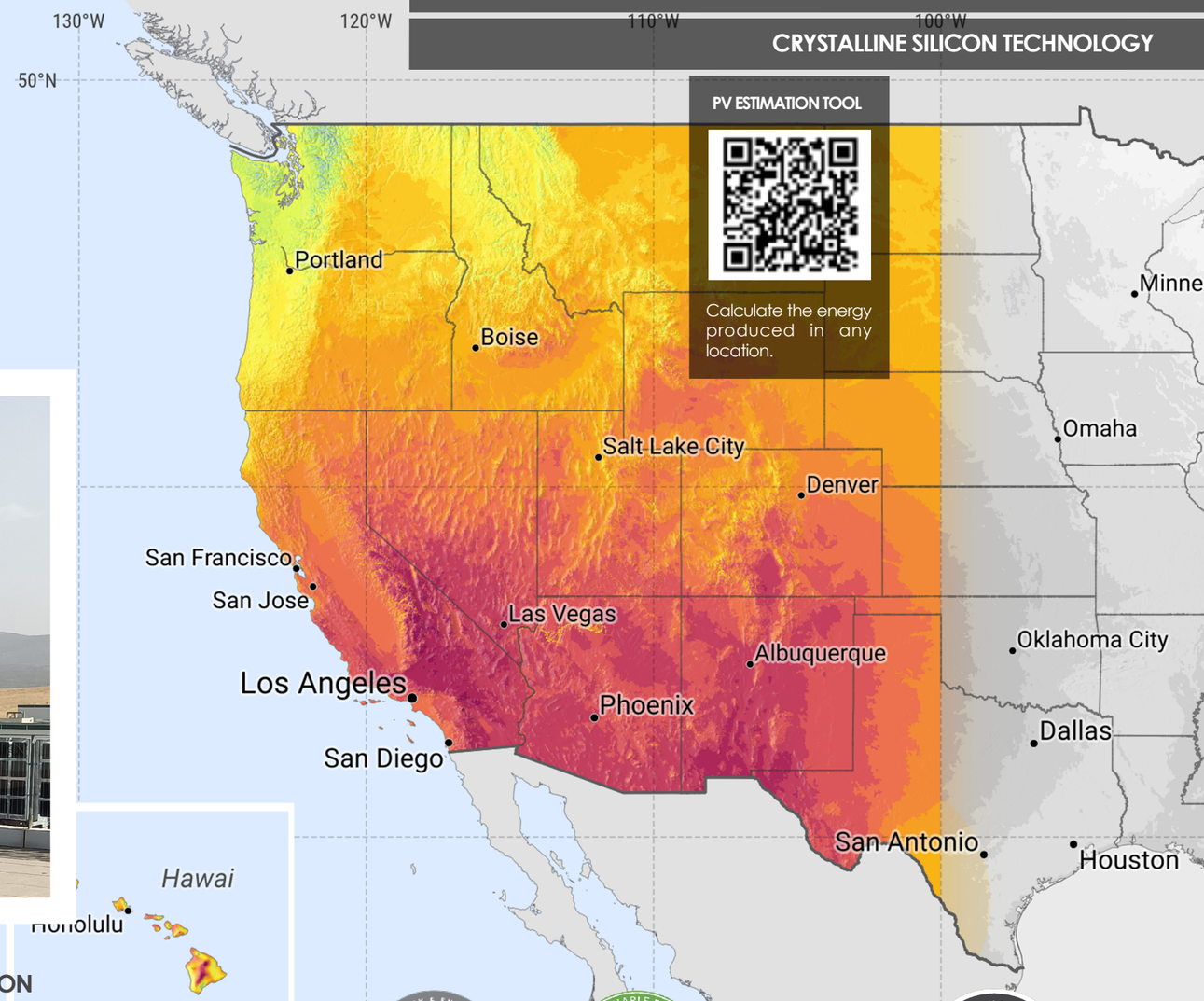
Tilt: 90°

Orientation: S

PV BALUSTRADE / BALCONY

WESTERN UNITED STATES

CRYSTALLINE SILICON TECHNOLOGY



ENERGY LOSSES PER ORIENTATION

	W	N	E
Los Angeles	-10%	-66%	-22%
Las Vegas	-21%	-69%	-17%
Portland	-17%	-61%	-22%
Denver	-28%	-70%	-24%

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FEASIBILITY STUDY LOS ANGELES

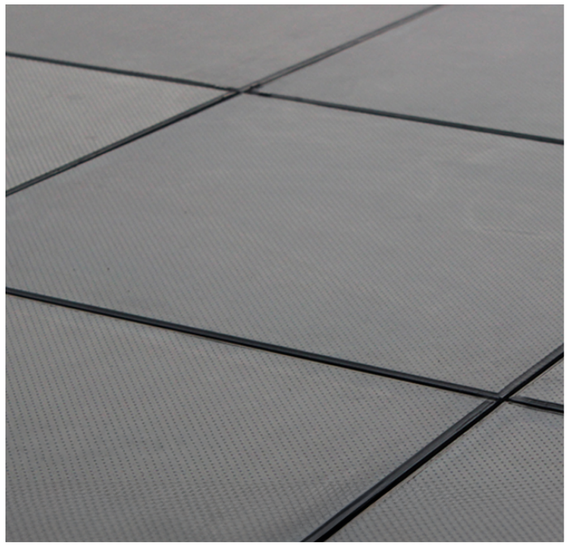
OPAQUE PV GLASS

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 LOS ANGELES

Renewable energy	6,025 KWh per sqm
LBS. of CO_2 avoided	2,530 LBS. per sqm
Miles driven in an electric car	21,532 Mi per sqm
Light points fed	11.84 per sqft/day

ECONOMIC BENEFITS LOS ANGELES*

Value of the renewable energy	$1,488 per sqm
Return on investment	6.15 times
Internal rate of return (IRR)	41.62%
Payback time	1 year
Building's value increase**	$735 per sqm

RESULTS IN OTHER LOCATIONS OF WESTERN UNITED STATES

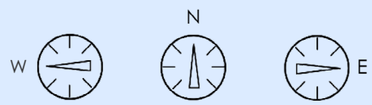
Renewable energy (Las Vegas)	6,507 KWh per sqm
Payback time (Las Vegas)	1 year
Renewable energy (Portland)	4,036 KWh per sqm
Payback time (Portland)	1 year
Renewable energy (Denver)	5,061 KWh per sqm
Payback time (Denver)	1 year

DATA CONSIDERED FOR CALCULATIONS

Tilt: 0°

Orientation: S

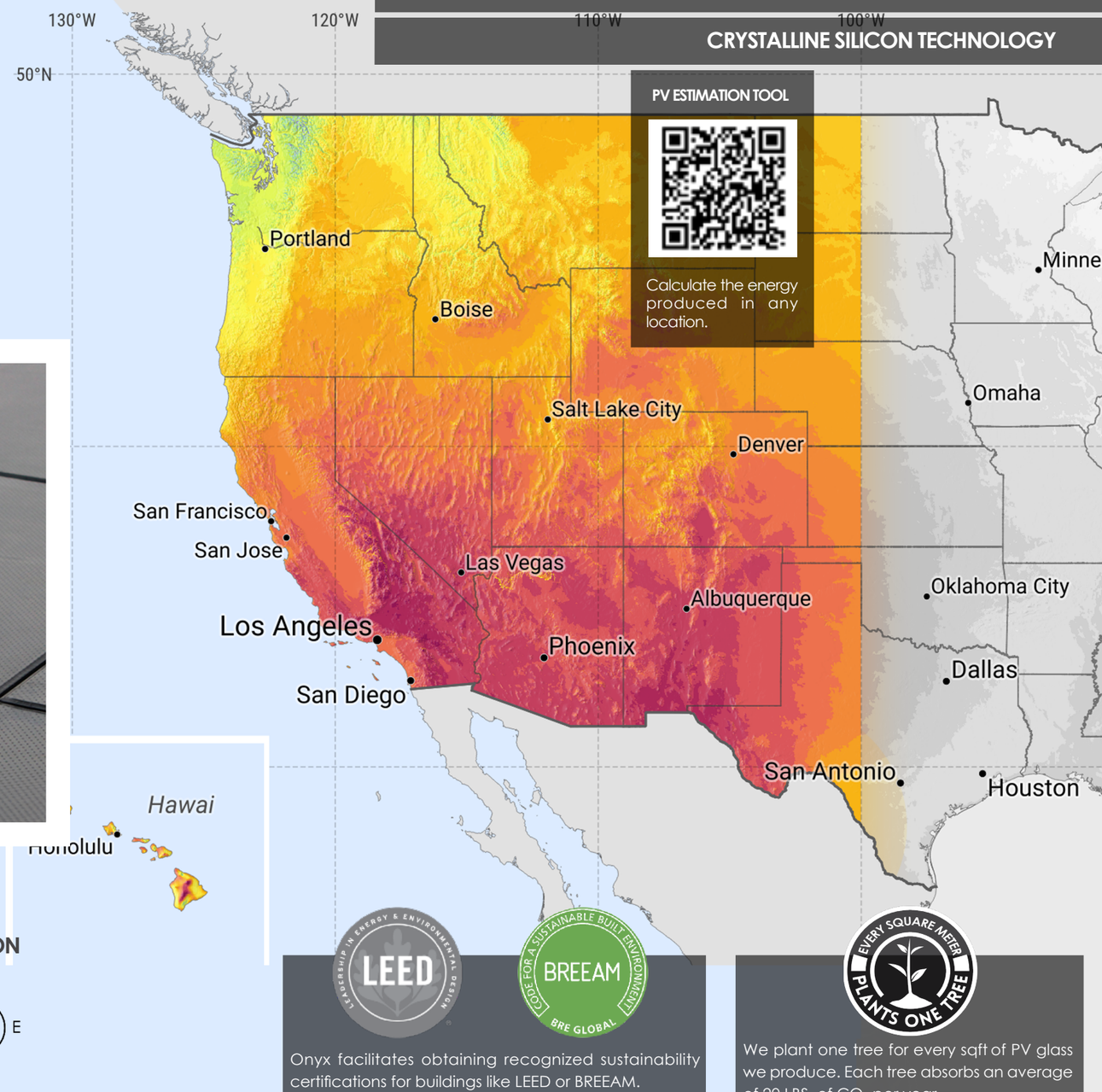
ENERGY LOSSES PER ORIENTATION



WALKABLE PV FLOOR

WESTERN UNITED STATES

CRYSTALLINE SILICON TECHNOLOGY



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

We plant one tree for every sqft of PV glass we produce. Each tree absorbs an average of 20 LBS. of CO_2 per year.

Data Calculated for a 35-year useful life.

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FEASIBILITY STUDY LOS ANGELES

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/sqft)	141 Wp per sqm
Visible light transmittance	28%

ENVIRONMENTAL BENEFITS LOS ANGELES

Renewable energy	6,936 KWh per sqm
LBS. of CO_2 avoided	2,913 LBS. per sqm
Miles driven in an electric car	24,788 Mi per sqm
Light points fed	13.63 per sqft/day

ECONOMIC BENEFITS LOS ANGELES*

Value of the renewable energy	$1,713 per sqm
Return on investment	13 times
Internal rate of return (IRR)	85,37%
Payback time	1 year
Building's value increase**	$846 per sqm

RESULTS IN OTHER LOCATIONS OF WESTERN UNITED STATES

Renewable energy (Las Vegas)	7,490 KWh per sqm
Payback time (Las Vegas)	1 year
Renewable energy (Portland)	4,647 KWh per sqm
Payback time (Portland)	1 year
Renewable energy (Denver)	5,826 KWh per sqm
Payback time (Denver)	1year

DATA CONSIDERED FOR CALCULATIONS

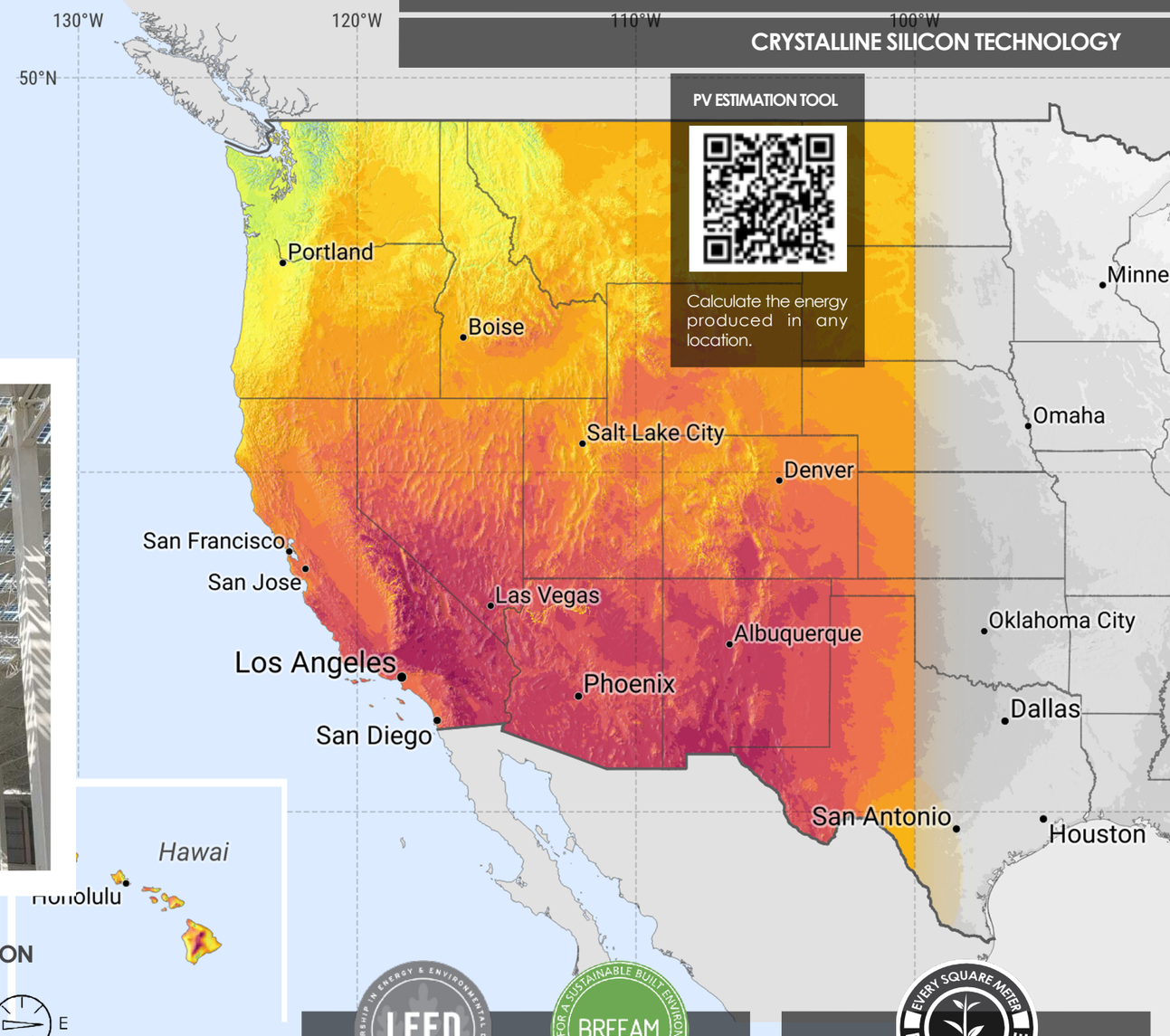
Tilt: 30°

Orientation: S

PV SKYLIGHT

WESTERN UNITED STATES

CRYSTALLINE SILICON TECHNOLOGY



PV ESTIMATION TOOL

Calculate the energy produced in any location.

ENERGY LOSSES PER ORIENTATION

	W	N	E
Los Angeles	-14%	-43%	-21%
Las Vegas	-21%	-46%	-18%
Portland	-19%	-51%	-23%
Denver	-27%	-58%	-24%

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FEASIBILITY STUDY LOS ANGELES

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 LOS ANGELES

Renewable energy	7,392 KWh per sqm
LBS. of CO_2 avoided	3,104 LBS. per sqm
Miles driven in an electric car	26,419 Mi per sqm
Light points fed	14.5 per sqft/day

ECONOMIC BENEFITS LOS ANGELES*

Value of the renewable energy	$1,826 per sqm
Return on investment	12.29 times
Internal rate of return (IRR)	67.82%
Payback time	1 year
Building's value increase**	$902 per sqm

RESULTS IN OTHER LOCATIONS OF WESTERN UNITED STATES

Renewable energy (Las Vegas)	7,983 KWh per sqm
Payback time (Las Vegas)	1 year
Renewable energy (Portland)	4,952 KWh per sqm
Payback time (Portland)	0.8 years
Renewable energy (Denver)	6,209 KWh per sqm
Payback time (Denver)	1 year

DATA CONSIDERED FOR CALCULATIONS

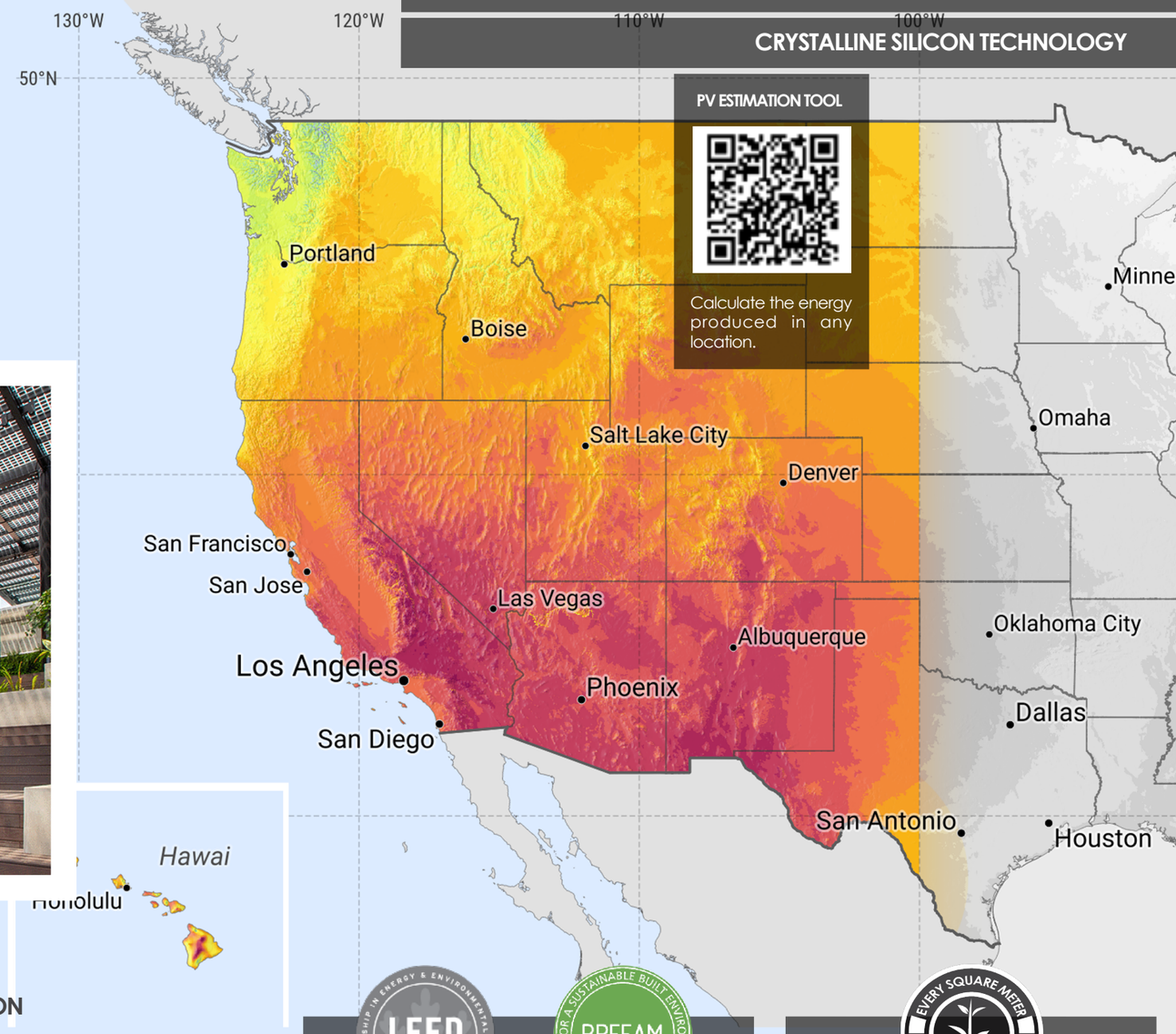
Tilt: 0°

Orientation: S

PV CANOPY

WESTERN UNITED STATES

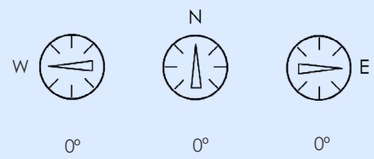
CRYSTALLINE SILICON TECHNOLOGY



PV ESTIMATION TOOL

Calculate the energy produced in any location.

ENERGY LOSSES PER ORIENTATION



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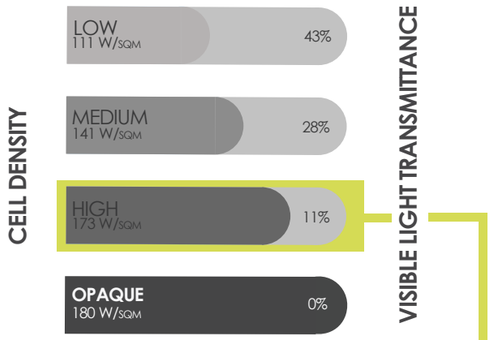
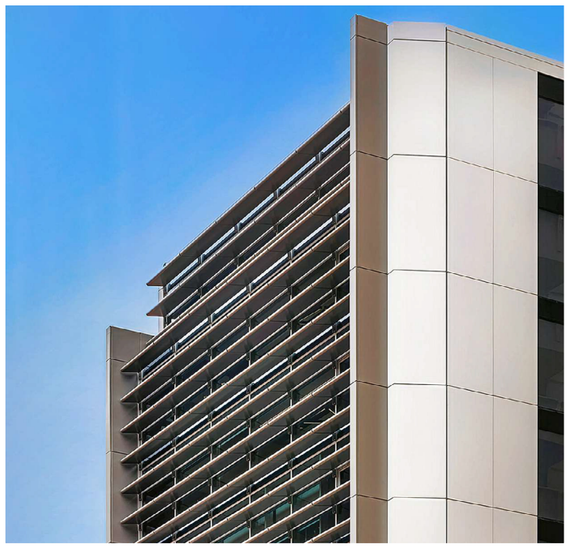
FEASIBILITY STUDY LOS ANGELES

HIGH CELL DENSITY PV GLASS



CHARACTERISTICS OF THE GLASS

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



ENVIRONMENTAL BENEFITS LOS ANGELES

Renewable energy	8,510 KWh per sqm
LBS. of CO_2 avoided	3,574 LBS. per sqm
Miles driven in an electric car	30,414 Mi per sqm
Light points fed	16.72 per sqft/day

ECONOMIC BENEFITS LOS ANGELES*

Value of the renewable energy	$2,102 per sqm
Return on investment	14 times
Internal rate of return (IRR)	74,20%
Payback time	1 year
Building's value increase**	$1.038 per sqm

RESULTS IN OTHER LOCATIONS OF WESTERN UNITED STATES

Renewable energy (Las Vegas)	9,190 KWh per sqm
Payback time (Las Vegas)	1 year
Renewable energy (Portland)	5,701 KWh per sqm
Payback time (Portland)	0,8 years
Renewable energy (Denver)	7,148 KWh per sqm
Payback time (Denver)	1 year

DATA CONSIDERED FOR CALCULATIONS

Tilt: 40°

Orientation: S

ENERGY LOSSES PER ORIENTATION

	W	N	E
Los Angeles	-14%	-43%	-21%
Las Vegas	-21%	-46%	-18%
Portland	-19%	-51%	-23%
Denver	-27%	-58%	-24%

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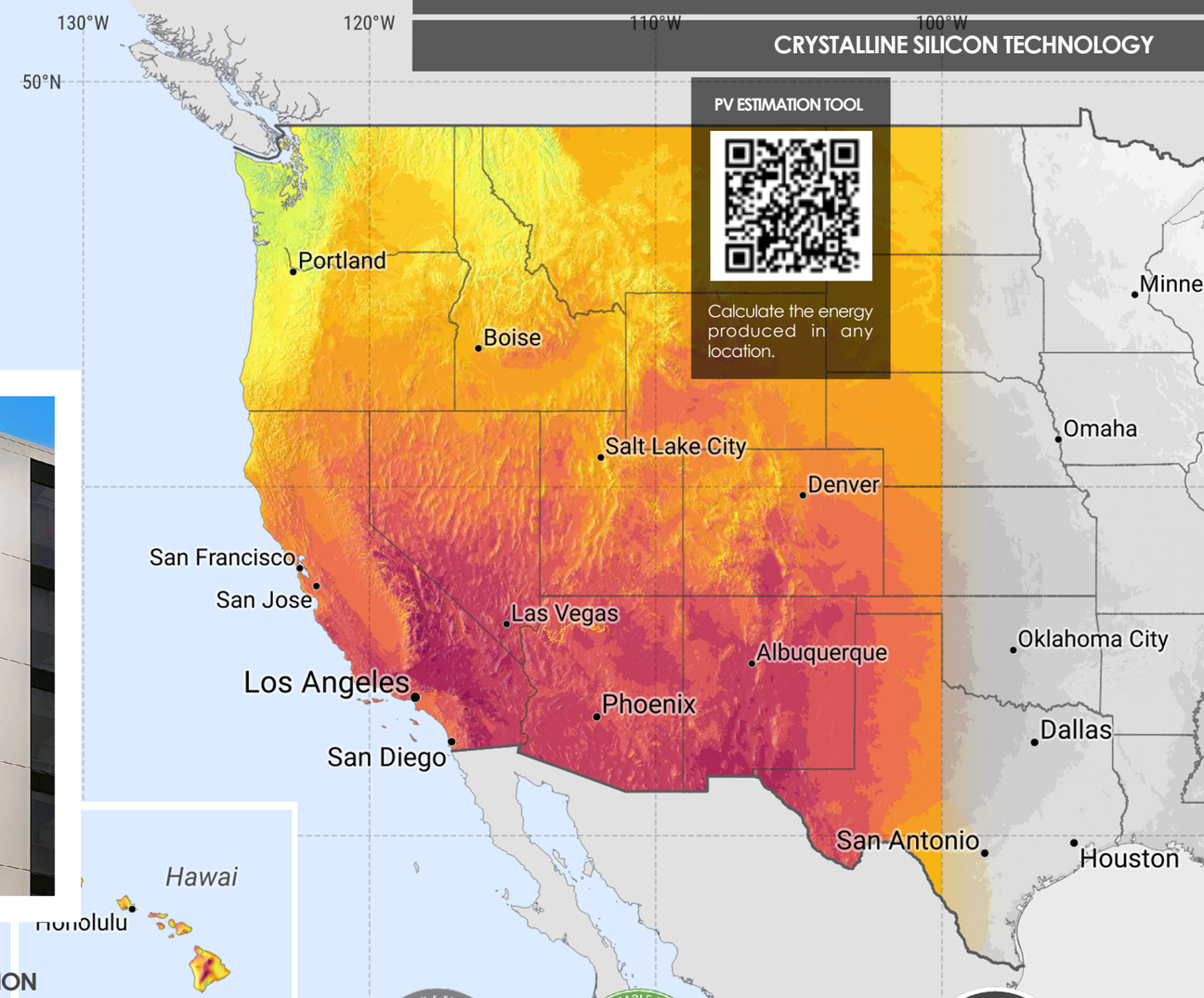
PV BRISE SOLEIL

WESTERN UNITED STATES

CRYSTALLINE SILICON TECHNOLOGY



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We plant one tree for every sqft of PV glass we produce. Each tree absorbs an average of 20 LBS. of CO_2 per year.

FEASIBILITY STUDY LOS ANGELES

OPAQUE PV GLASS

CELL DENSITY

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

VISIBLE LIGHT TRANSMITTANCE

CHARACTERISTICS OF THE GLASS

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

ENVIRONMENTAL BENEFITS LOS ANGELES

Renewable energy	5,506 KWh per sqm
LBS. of CO_2 avoided	2,312 LBS. per sqm
Miles driven in an electric car	19,679 Mi per sqm
Light points fed	11 per sqft/day

ECONOMIC BENEFITS LOS ANGELES*

Value of the renewable energy	$1,360 per sqm
Return on investment	8.42 times
Internal rate of return (IRR)	53.46%
Payback time	1 year
Building's value increase**	$672 per sqm

RESULTS IN OTHER LOCATIONS OF WESTERN UNITED STATES

Renewable energy (Las Vegas)	5,946 KWh per sqm
Payback time (Las Vegas)	1 year
Renewable energy (Portland)	3,689 KWh per sqm
Payback time (Portland)	1 year
Renewable energy (Denver)	4,625 KWh per sqm
Payback time (Denver)	1 year

DATA CONSIDERED FOR CALCULATIONS

Tilt: 90°

Orientation: S

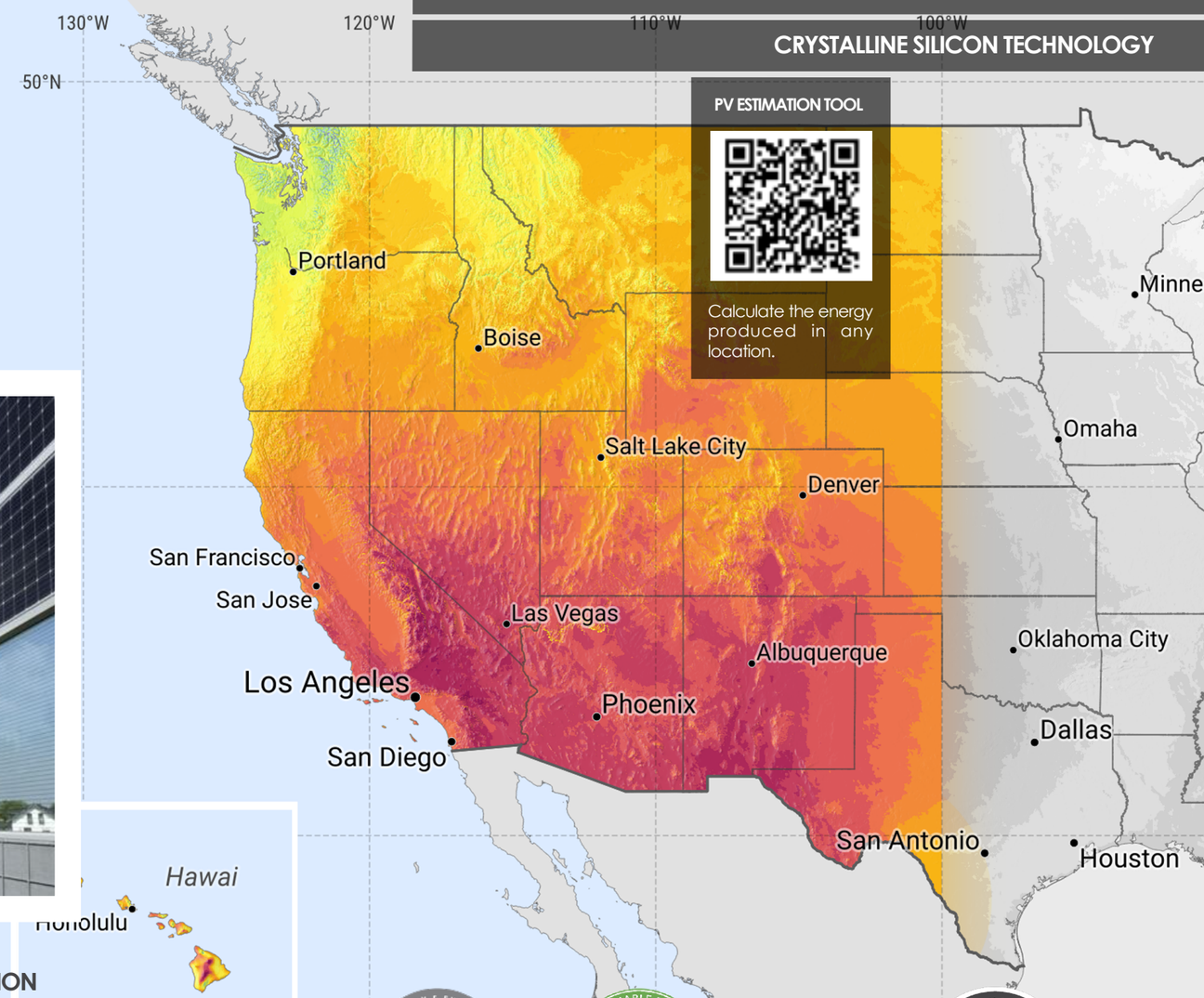
ENERGY LOSSES PER ORIENTATION

	W	N	E
Los Angeles	-10%	-66%	-22%
Las Vegas	-21%	-69%	-17%
Portland	-17%	-61%	-22%
Denver	-28%	-70%	-24%

PV NOISE BARRIER

WESTERN UNITED STATES

CRYSTALLINE SILICON TECHNOLOGY



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

We plant one tree for every sqft of PV glass we produce. Each tree absorbs an average of 20 LBS. of CO_2 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.

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

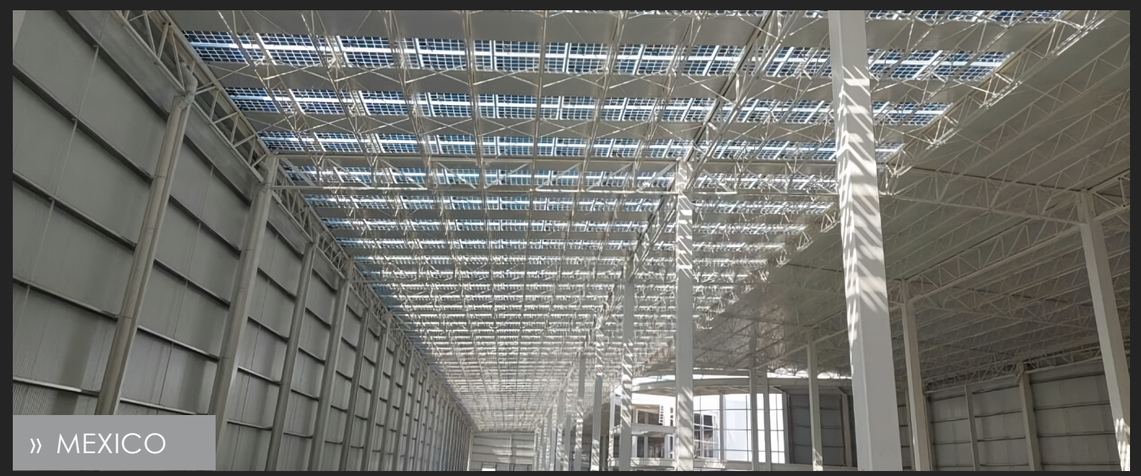
» FRANCIA

» ESLOVAQUIA

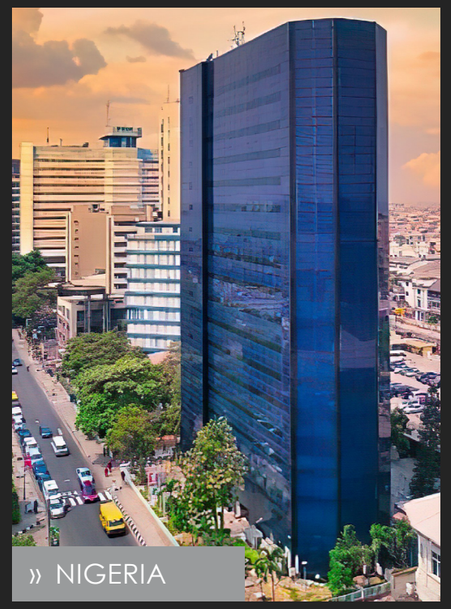
» ESPAÑA

» ESPAÑA

» ARABIA SAUDITA



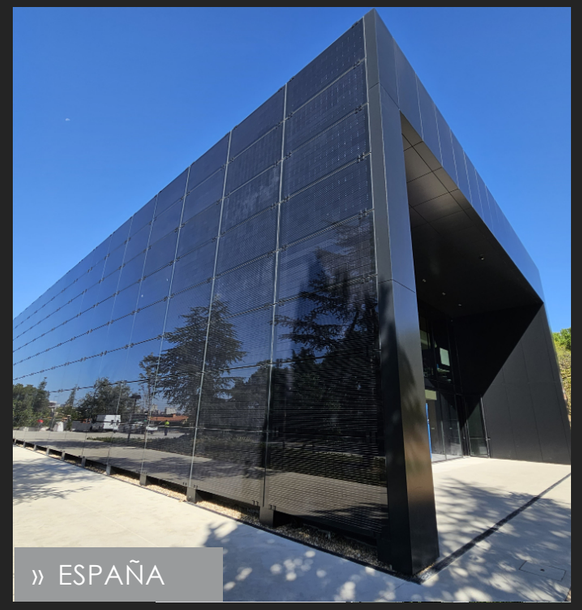
» MEXICO



» NIGERIA

» PAÍSES BAJOS

» EEUU

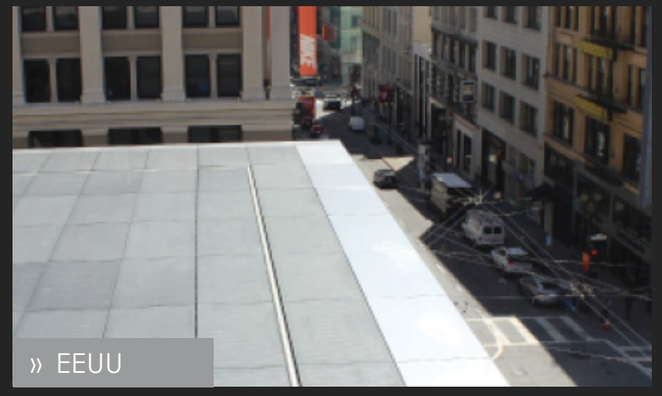


» ESPAÑA

» EEUU

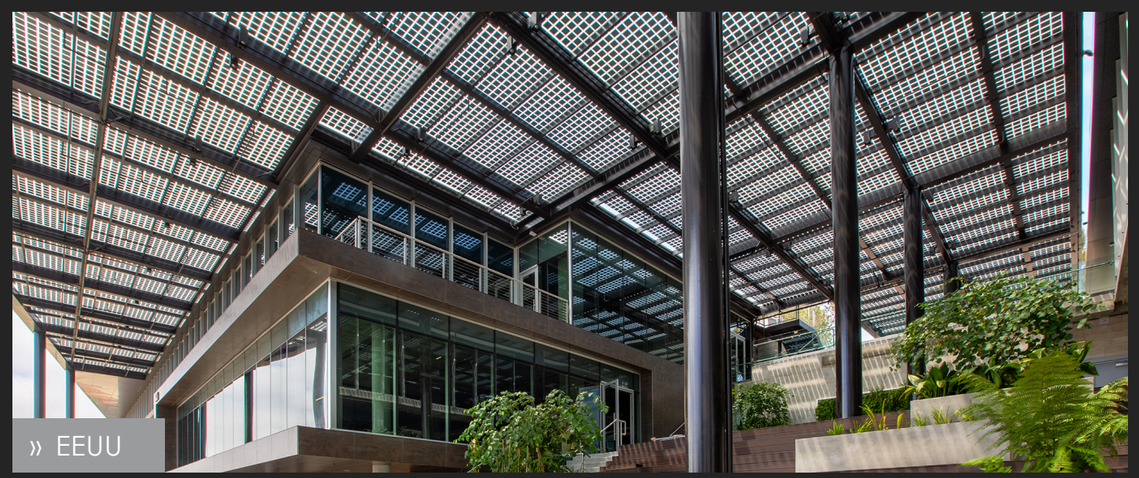
» DUBAI

» DINAMARCA

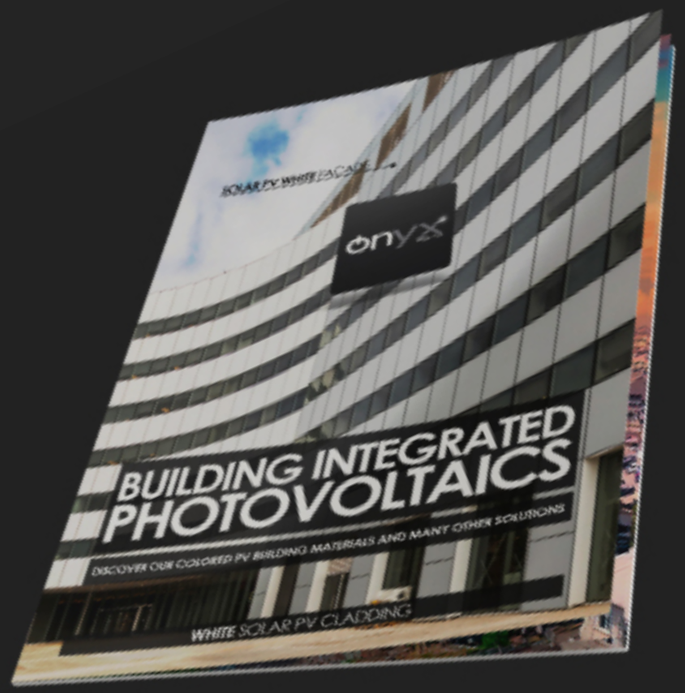


» EEUU

» EEUU



» EEUU



Scan this QR code to acces our catalog.

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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