



**EXPLORING REAL-WORLD APPLICATIONS OF BIPV,
ASSESSING THE LEVELISED COST OF ENERGY,
AND IDENTIFYING FUTURE MARKET
OPPORTUNITIES**






SOLAR FARM DEVELOPMENT



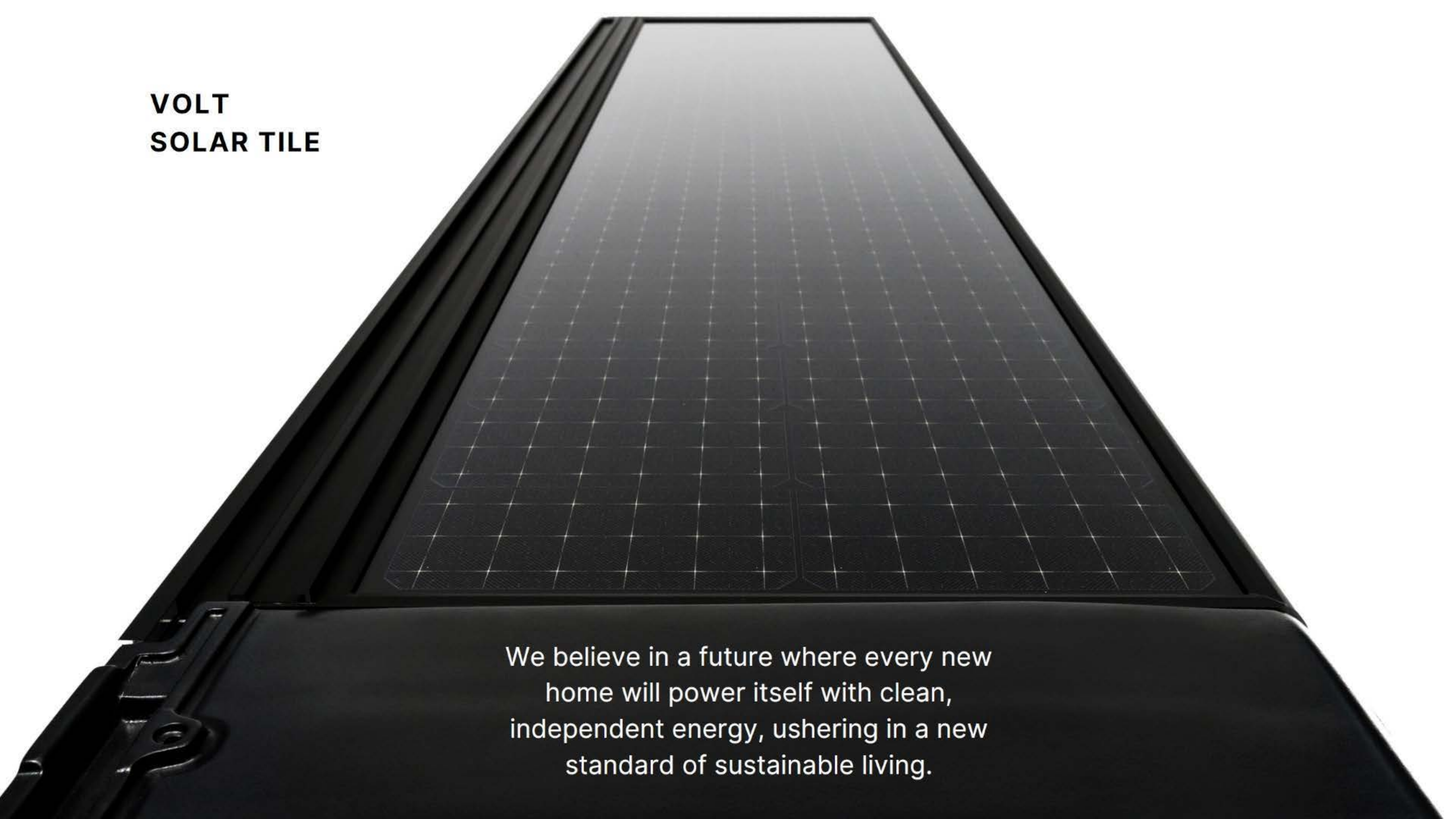
Leeson Projects launched in 2015, developing utility-scale solar farms most notably the 34MW Cohuna Solar Farm with a current pipeline of 800MW in the connection application process in Victoria and 1GW in Australia.



**RESIDENTIAL AND
COMMERCIAL SOLAR**



"Our vast design and technical knowledge ensures the best possible outcome for our systems."



**VOLT
SOLAR TILE**

We believe in a future where every new home will power itself with clean, independent energy, ushering in a new standard of sustainable living.

BIPV APPLICATIONS



BIPV APPLICATIONS



YIELD FACADE - SUMMER SOLSTICE



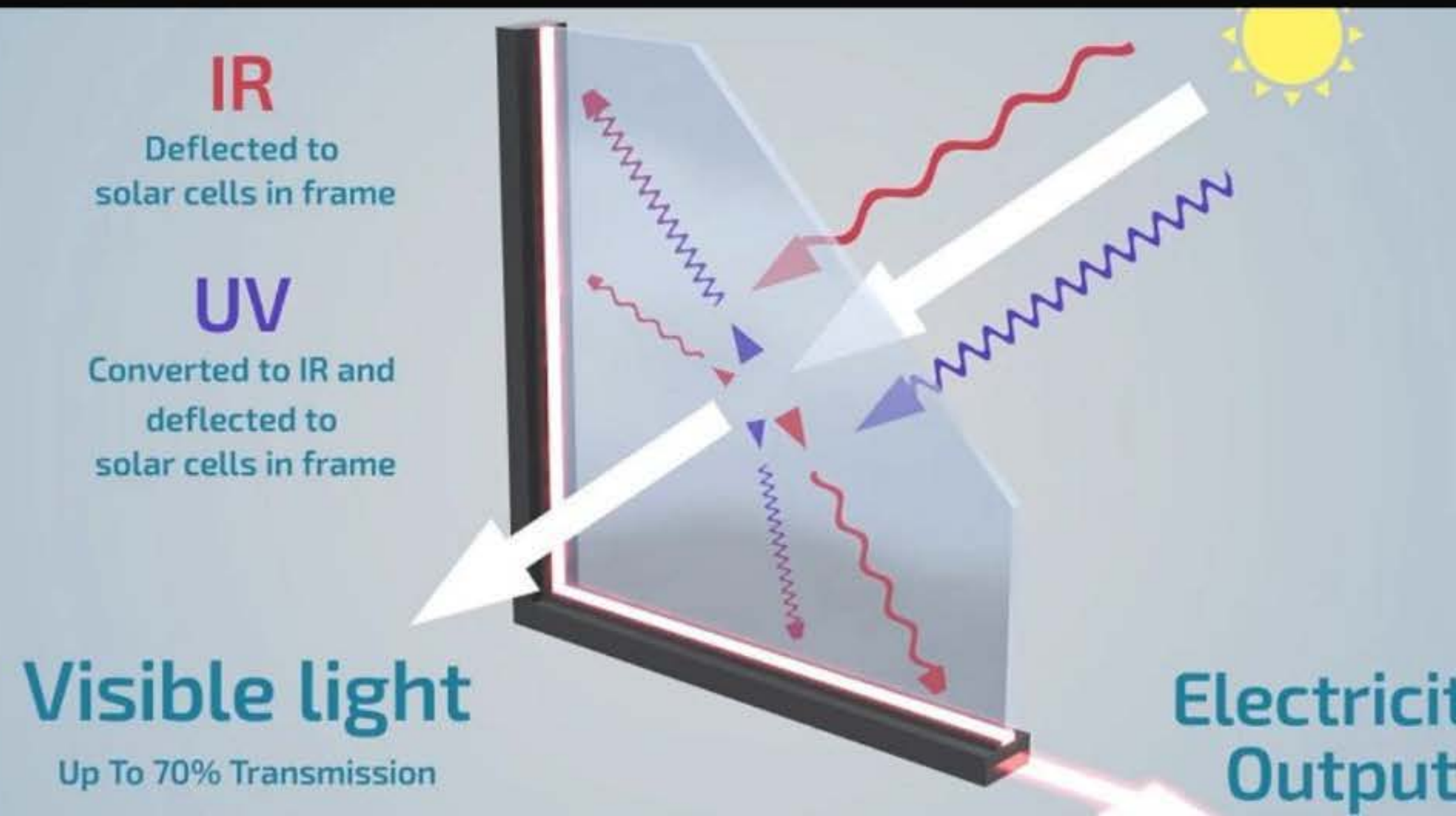


THINFILM SOLAR GLASS

- 6.6% efficiency
- 20% light transmission

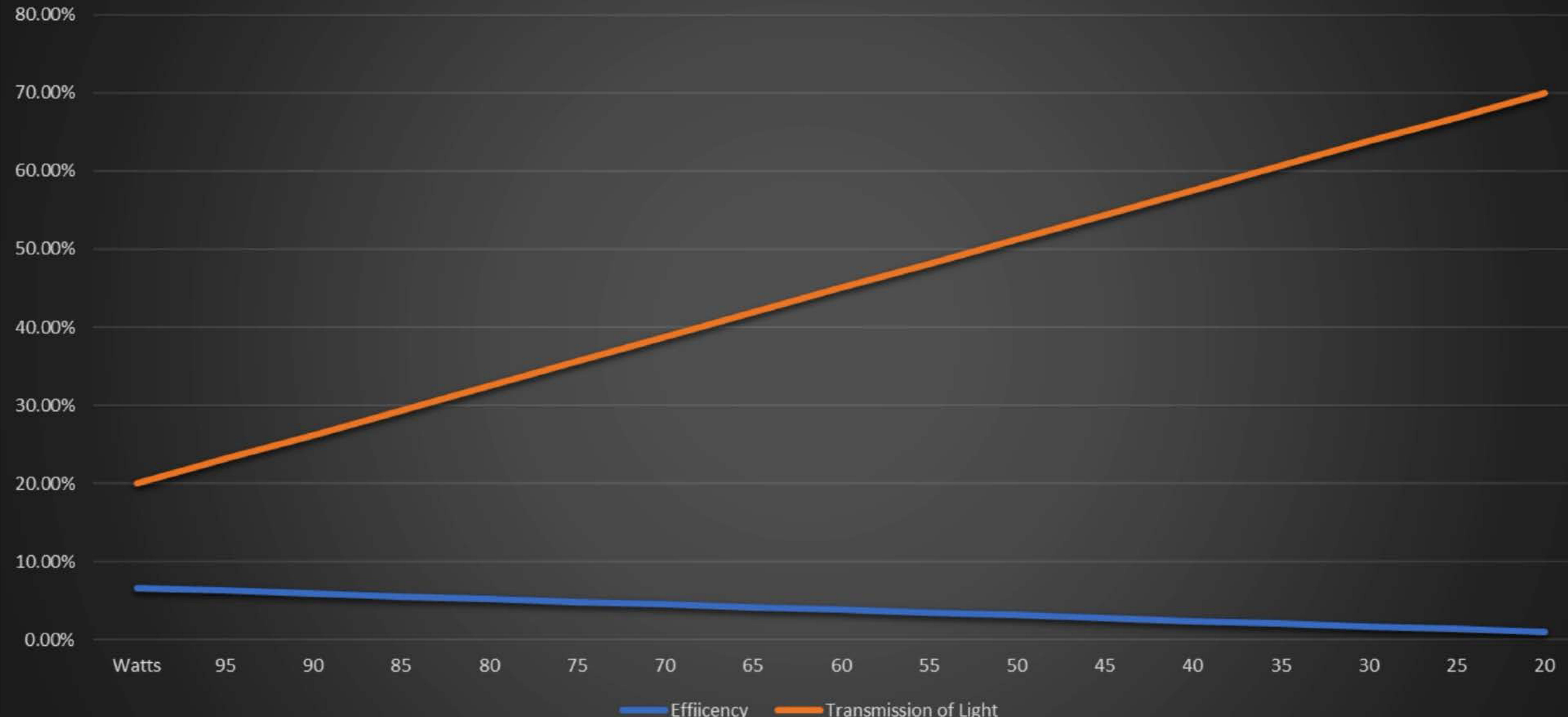
CLEARVUE SOLAR GLASS

- 3% efficiency
- 70% light transmission

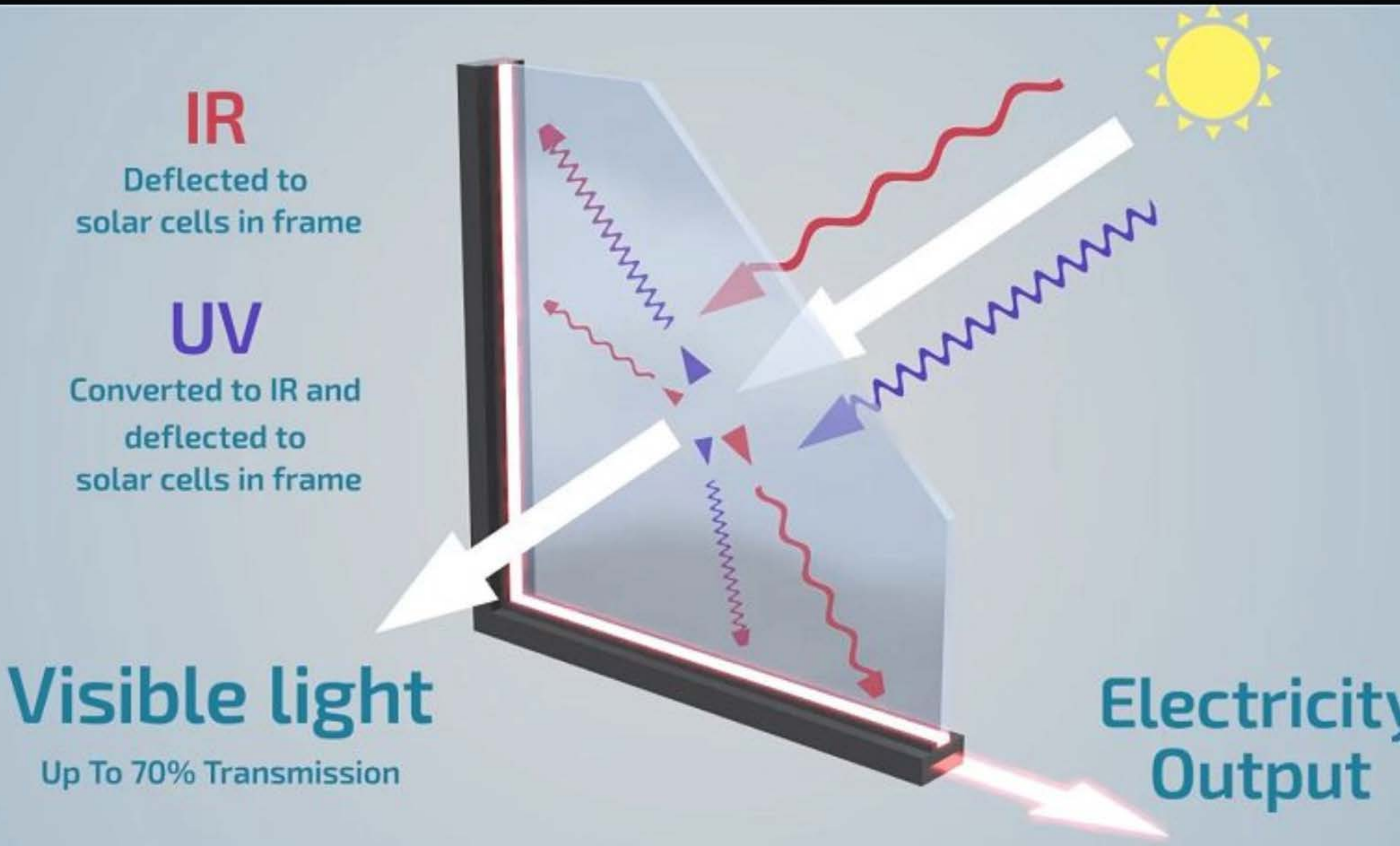


THINFILM SOLAR GLASS

THINFILM SOLAR GLASS LIGHT TRANSMISSION



CLEARVUE



SOLAR GLASS CHALLENGES

- low efficiency and performance
- electrical connections
- electrical installation cost
- isolation
- Maintenance access

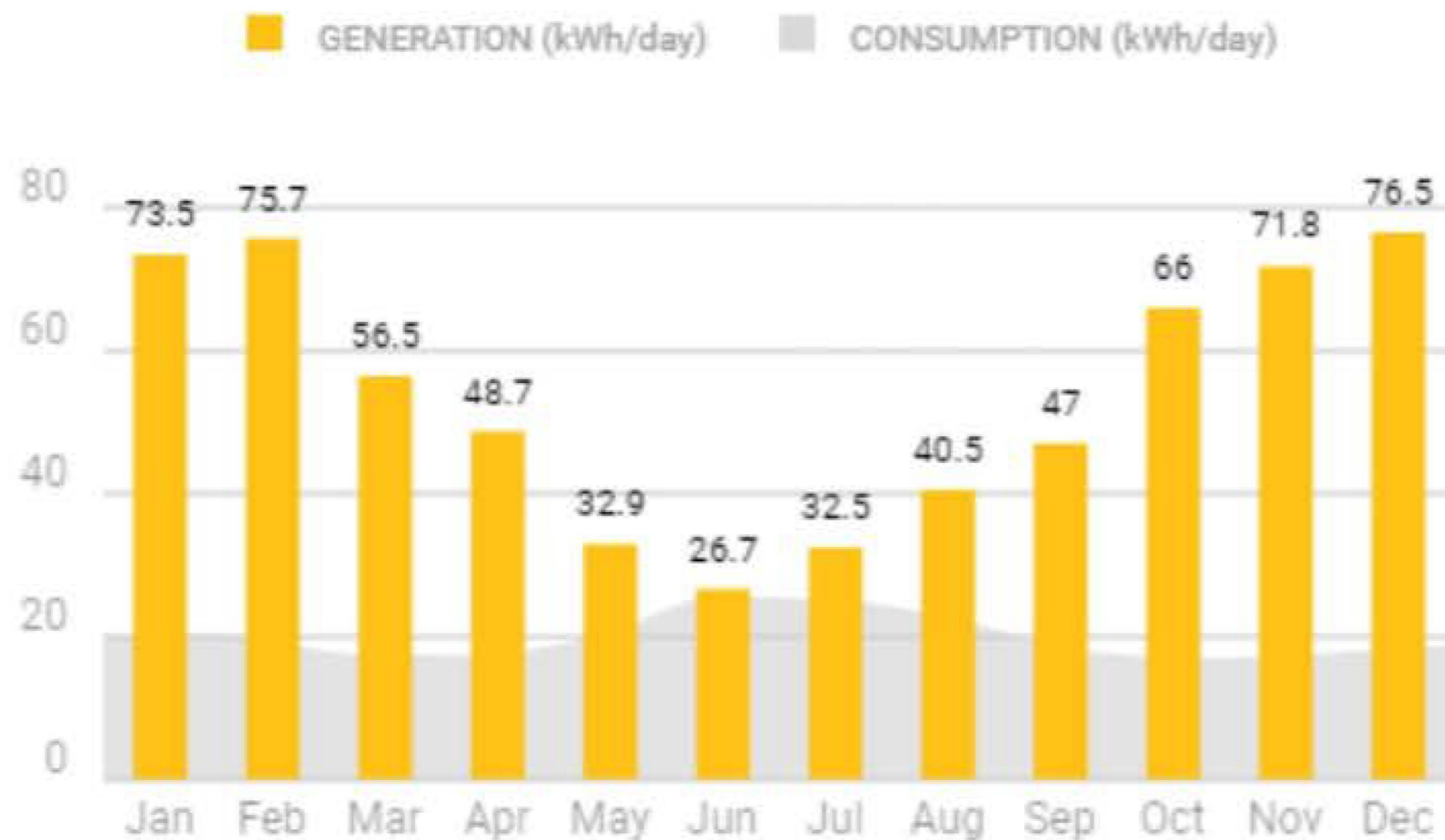


SOLAR GLASS PERFORMANCE

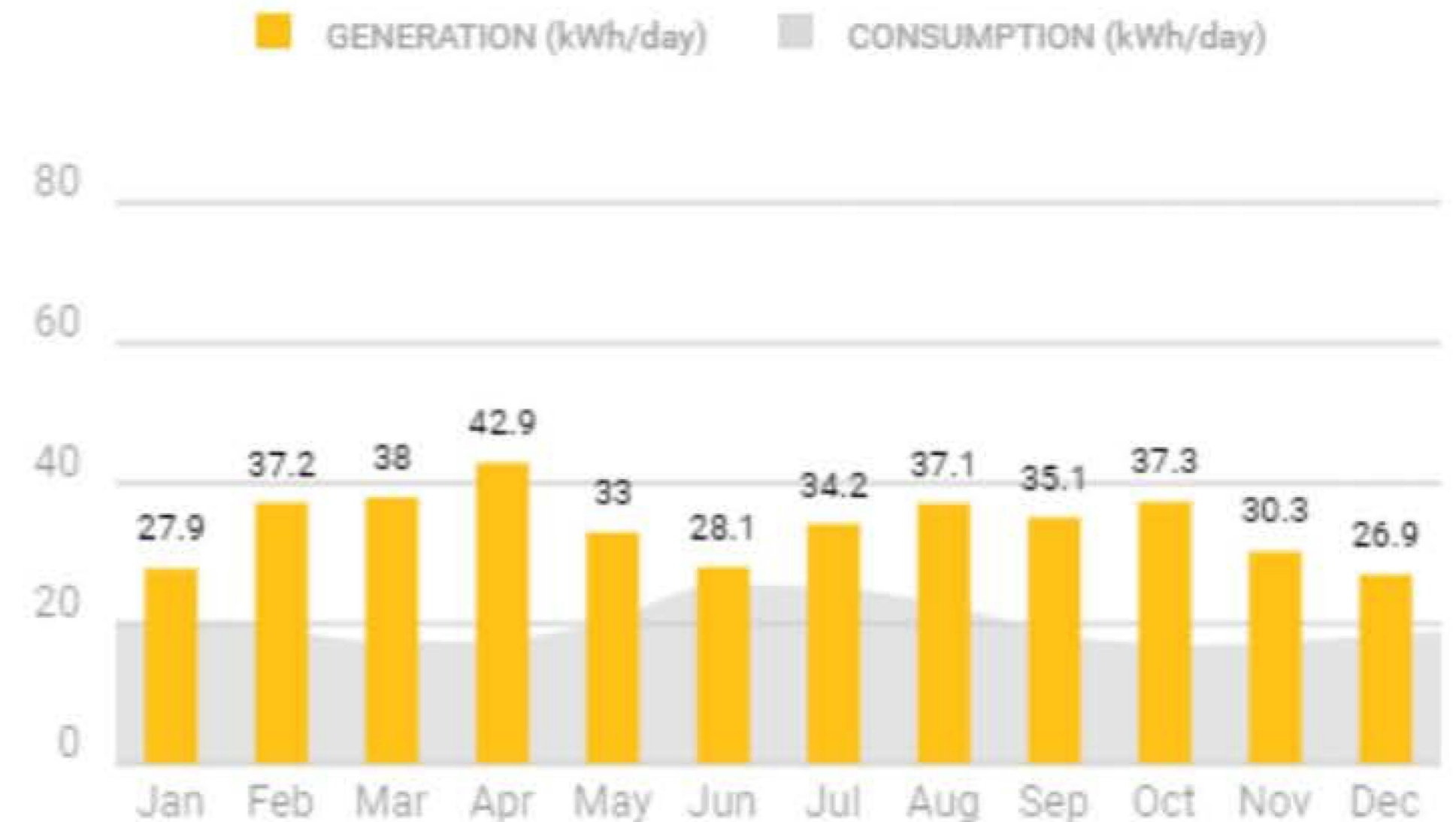
15kW System Melbourne cbd
22 degrees north no shading

15kW System Melbourne cbd
90 degrees north no shading
performance reduction calculated 37%
Actual 52%

System Performance



System Performance



BIPV FACADES

The image shows a modern building facade with large glass windows and a section with a textured, metallic-looking material. The glass reflects the surrounding cityscape and greenery. The text "BIPV FACADES" is overlaid in white on the building's facade.

ACCESS



WIRING



ISOLATION

A low-angle photograph of a multi-story building under construction. The image shows a dense network of metal scaffolding and structural elements, including vertical columns and horizontal beams, against a grey, overcast sky. The building's facade is partially visible, showing some windows and structural panels. The overall tone is industrial and technical.

Isolator Locations and



**FACADES AND
WINDOWS**

BUSINESS CASE

LCOE OVER 20 YEARS

Total cost of system PV only - \$18,000

Total Cost of Extrusion and Glass Installation - \$26,000

Total Cost of System - \$44,000

Energy Generation 20 years - 76,800kWh

Simplified LCOE (No Maintenance) - \$23.4 cents per kWh

Simplified LCOE Including Facade (No Maintenance) - \$57,3 cents per kWh

Voit^o

PLANUM

THE WORLD'S MOST POWERFUL SOLAR TILE, WITH A MAXIMUM POWER OUTPUT OF 115W, AND 18.8% EFFICIENCY.

PLANUM ROOF TILES



MECHANICAL CHARACTERISTICS

Cell Size (mm)	166 x 83
No. of cells	32
Module Size (mm)	1723 x 445 x 54
Module Weight (KG)	12

Fixing Method Screwed at top. Interlock at nose (refer manual). This product must not be installed using clamps.

Fire Class Rating UL 1703 Class C



LOGGE

MAX POWER OUTPUT OF
105W WITH AN INCREDIBLE
19.5% EFFICIENCY.



PRESTIGE



ETON



PREMIERE



MECHANICAL CHARACTERISTICS

Cell Size (mm)	166 x 83
No. of cells	34
Module Size (mm)	1542 x 445 x 57
Module Weight (KG)	10
Fixing Method	Screwed at top. Interlock at nose (refer manual). This product must not be installed using clamps.
Fire Class Rating	UL 1703 Class C



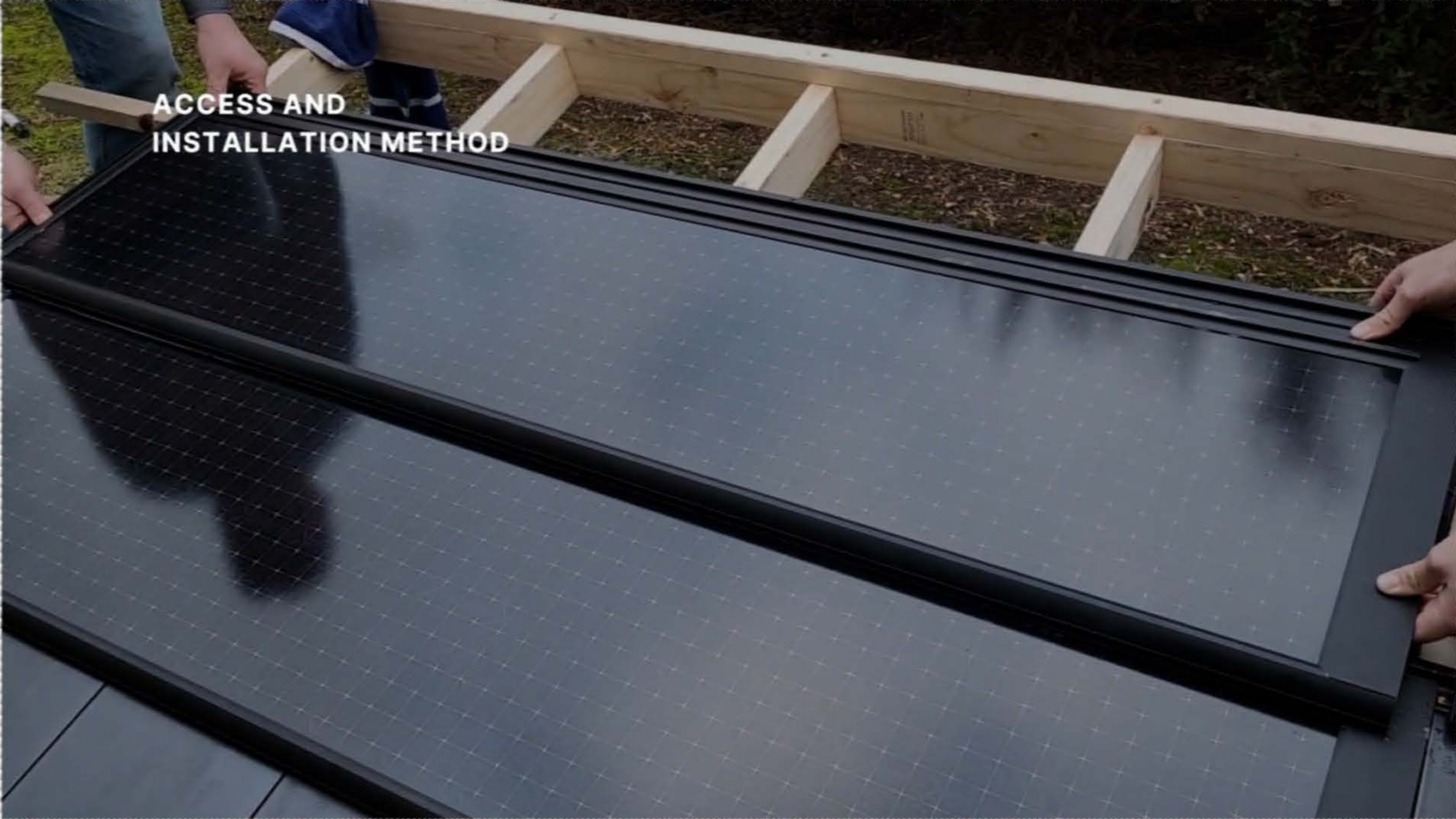


VOLT SOLAR TILE

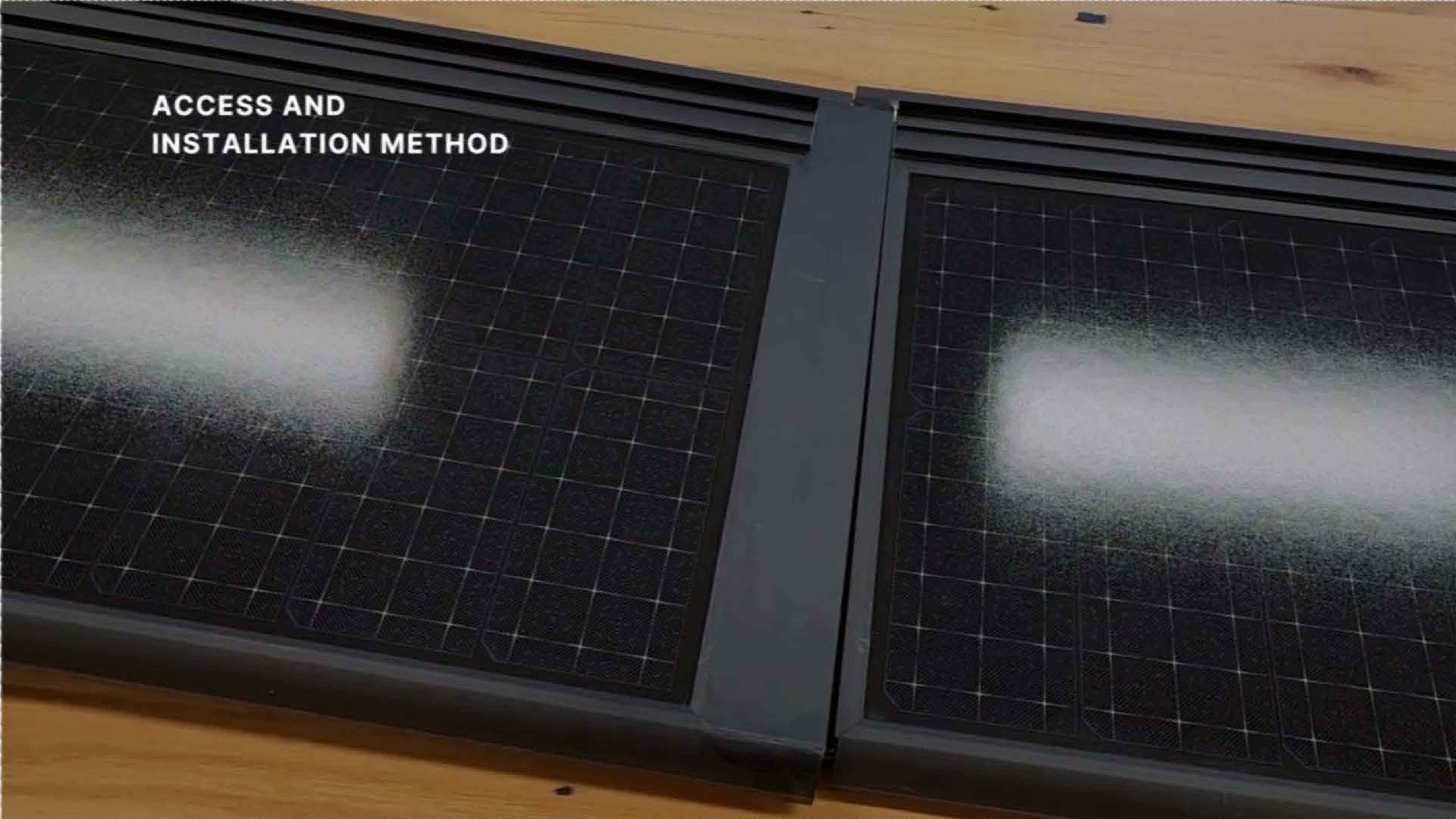
ACCESS AND INSTALLATION METHOD



**ACCESS AND
INSTALLATION METHOD**



**ACCESS AND
INSTALLATION METHOD**



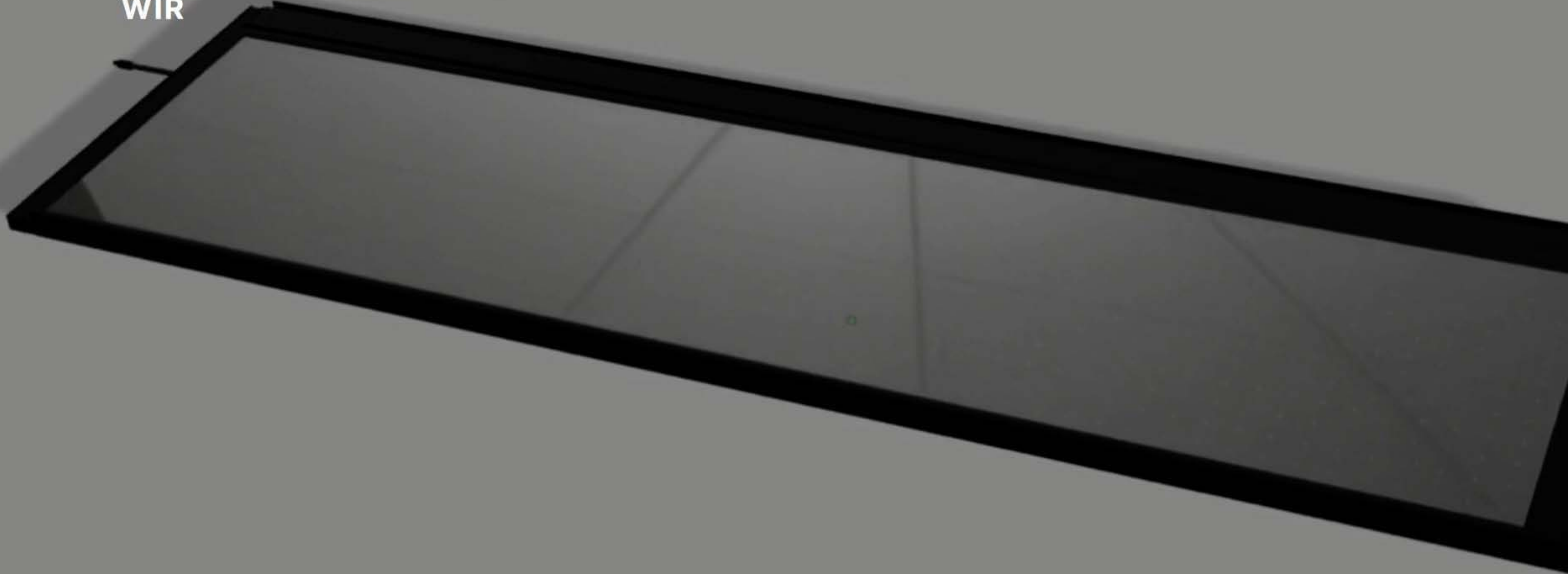
ACCESS AND INSTALLATION METHOD



**ACCESS AND
INSTALLATION METHOD**



WIR



VOLT

INSTALLATION BARRIERS



LCOE OVER 20 YEARS

Total cost of 5kW Volt System - \$13,000

Energy Generation 20 years - 122,000kWh

Simplified LCOE (No Maintenance) - \$10.6 cents per kWh

ADDRESSABLE MARKET - AUSTRALIA

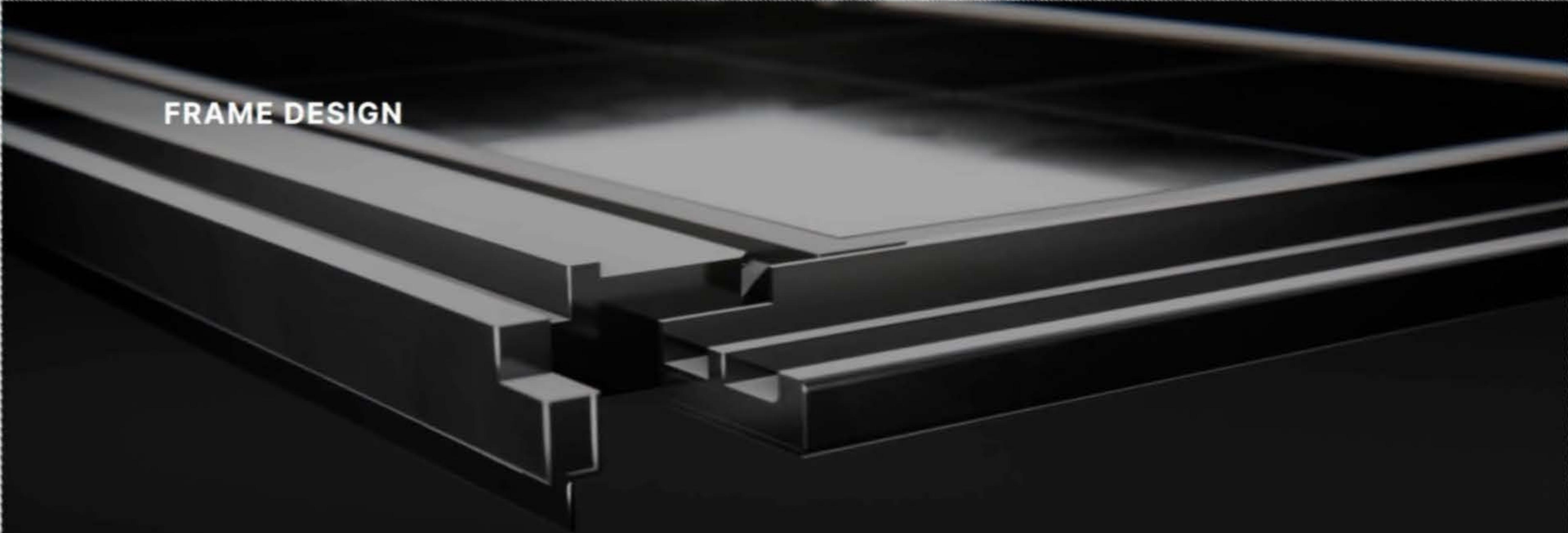


- 11,000,000 Homes
- 170,000 Homes built per year of which -
- 100,000 Semi Detached Dwellings
- NCC Requirements for Energy Budget
- BIPV - New Home \$76M Market in 2025 and Growing



**PATHWAY TO
MANUFACTURING IN
AUSTRALIA**

FRAME DESIGN



COST BENEFIT

- Dedicated Manufacturing Line Creating a Cost benefit
- Automated for Bespoke Product
- Quality improvement and control
- Maintaining IP in Australia
- Exporting Globally
- Australia's only manufacturer to export solar modules
- Vertical manufacturing opportunities