

MALAYSIA'S #1
ENERGY-GENERATING WALL SYSTEM

SOLARWALLTM



ENERGY BRAND INTRODUCTION

Powering Buildings with Light,
Making the World More Beautiful



BEYOND LIGHT, BUILDING A LOW-CARBON FUTURE

We focus on green, low-carbon building solutions by integrating solar photovoltaic (PV) technology into buildings, helping reduce energy consumption and support sustainable urban development.



+ SIX CORE TECHNOLOGIES



> BIPV Technology (Building Integrated Photovoltaics)

Solar photovoltaic (PV) modules are integrated into **building facades**, serving both as **construction materials** and **green power generators**.



> Super High-Rise Building Curtain Wall System Technology

Curtain wall system designed to address challenges such as **wind pressure resistance**, **thermal deformation**, and **precision installation** in super high-rise buildings.



> Complex Double-Curved Curtain Wall System Technology

A curved curtain wall technology based on digital design and **CNC molding**, achieving **high-precision manufacturing** and installation of curved facades.



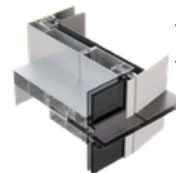
> Environmentally Friendly Curtain Wall Technology

A curtain wall system integrating **low-carbon materials** and **energy-saving structures**, reducing energy consumption to support **carbon reduction** throughout the building's lifecycle.



> Special Curtain Wall Technology

High-performance curtain wall solutions developed for **extreme environments** or specific functional requirements (e.g., blast resistance, seismic resistance).



> MIC Curtain Wall Design (Modular Integrated Construction)

A highly efficient integrated construction method where curtain wall units and the main building structure are **prefabricated simultaneously** in factories, enabling **rapid on-site assembly**.

> CORPORATE CAPABILITIES

Innovative Products
Empowering Green Buildings
and 'Dual Carbon' Goals

Independent R&D, testing, and mass production
mastering core technologies and processes.



Started operation: **May 2025**

Produces : **Fritted glass & BIPV components**
in different sizes

Advantages:

- ✓ Large-size product manufacturing
- ✓ High wind-pressure resistance products
- ✓ Intelligent production devices
- ✓ One-stop BIPV solutions





LIGHT PRO FACADE™

Comprehensive Protection, Peace of Mind

- Static wind pressure resistance : 15.4 kPa, capable of withstanding Category 17 typhoons.
- Class A fire rating, ultimate fire safety.
- Strong overall rigidity, outstanding anti-micro-crack capability.
- Installation with embedded nuts and bolts, significantly enhanced strength.

— Five standard colors :



Dawn Blue



Slate Gray



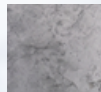
Antique Gold



Ruby Red



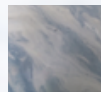
Sage Green



Haimarble



Elegrotto



Rhythmstone

Light Pro facade products can be customized in various colors and stone-grain appearances.



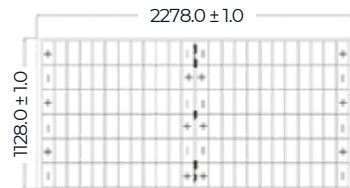
Rooftop
Dimensions : **1134 x 2382**



Facade
Dimensions : **1128 x 2278**

Technical Parameter

Battery arrangement	ABC /144 (72x 2)
Connecting box	IP68 protection rating
Export wire (including connectors)	4.0mm ² , (wire length) ±650 mm; or customized
Glass	Double-pane glass: 3.2mm colored enamel glass + 2mm semi-tempered glass (customizable)
Product weight	64kg
Product size	1128 x 2278mm(Customizable size)
Working temperature	-40°C~85°C
Power tolerance	± 5W
Nominal operating temperature	45±2°C
Component fire resistance rating	Class A (IEC 61730/UL790)
Maximum backplane static load	9000Pa
Through hail testing	Diameter 25mm, impact velocity 23m/s



Dawn Blue
200~210W/m²

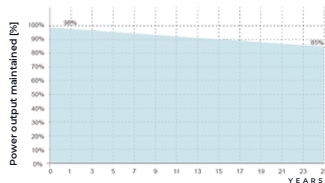
Slate Gray
200~210W/m²

Sage Green
200~210W/m²

Antique Gold
160~170W/m²

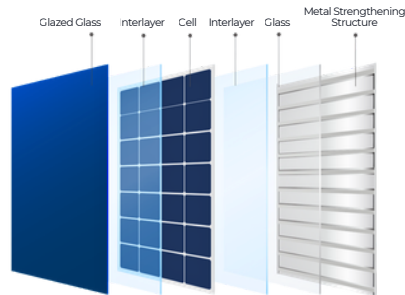
Ruby Red
150~160W/m²

21% max conversion efficiency
<1.0% first year power attenuation
<0.5% Annual power attenuation from 2 - 25 Years



BIPV Products Feature Far East Green Energy's Proprietary High-Performance Colored Enamel Glass.

*The above parameters are for reference only. Please refer to the project design and customization details for specific requirements.



BIPV PRODUCT INTRODUCTION

Independently developed top-tier products,
continuously leading and serving the times.

2⁺

LESS LOSS, MORE POWER GENERATION

210 W/m²

Maximum Power

17K kWh

Annual Power Generation

5 households

Equivalent to 3391 kwh /year

731 trees

Carbon Reduction

Data source: State Grid - 1 kWh of clean electricity saves **305.5g** of standard coal, reduces **751.53g** of CO² emissions, equivalent to planting **0.043** trees



> Architectural Aesthetics



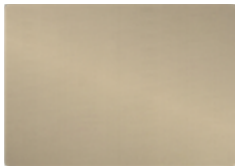
Custom Fritted Glass Series

Surface Effect

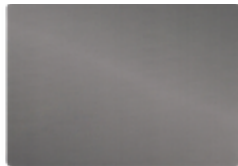
Custom Fritted Glass Series

✓ Tangible Texture . Ultra-high fidelity . Rejects light pollution.

✓ Lower loss . More Power generation **(Power loss < 10%)**



Champagne Gold



Dark Grey



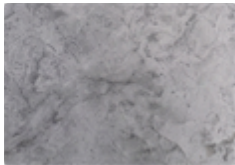
Mistweave White



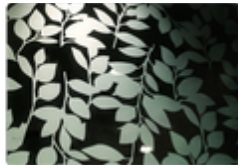
Forest Green



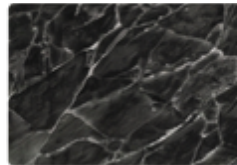
Amber Bronze



Haimarble



Green Leaves



Rockstone



Elegrotto



Rhythmstone

Extreme Performance Shaping Curtain Wall Quality

Reliance Home Green Energy



Certified Photovoltaic Components

TÜV German Technical Inspection Association
CE EU Conformity Certificate
COC Singapore Certificate of Conformity

Passed Curtain Wall EN/BS Four Performance Tests

- **(Fire Resistance)** Achieves **Class A** flame-retardant rating, fire-resistant and non-combustible.
- **(Air Tightness)** Achieves National Standard Grade 8, European Standard **A4**, powerful performance.
- **(Water Tightness)** **RE**, effectively resists rainwater penetration under pressure.
- **(Wind Load Resistance)** Passed maximum wind pressure test of **15.4 kPa**, can withstand Category 17 typhoons.



FEATURED PROJECTS

LIGHT - Illuminating the Boundless Future

3⁺

Deep Expertise in Large Building Scenarios

Technology Leading :

Photovoltaic facade products adapt to various building forms, overcoming installation challenges in complex scenarios.

Significant Benefits:

triple value empowerment through power generation revenue + energy saving & consumption reduction + carbon reduction certification

Rich Experience:

Coverage across over 60 cities nationwide



COMMERCIAL BUILDINGS

160,000 kWh

First-Year Power
Generation

131.84 Tons

Equivalent Carbon Emission
Reduction

131.84 Tons

Equivalent Carbon Emission
Reduction

PUBLIC BUILDINGS

185,000 kWh

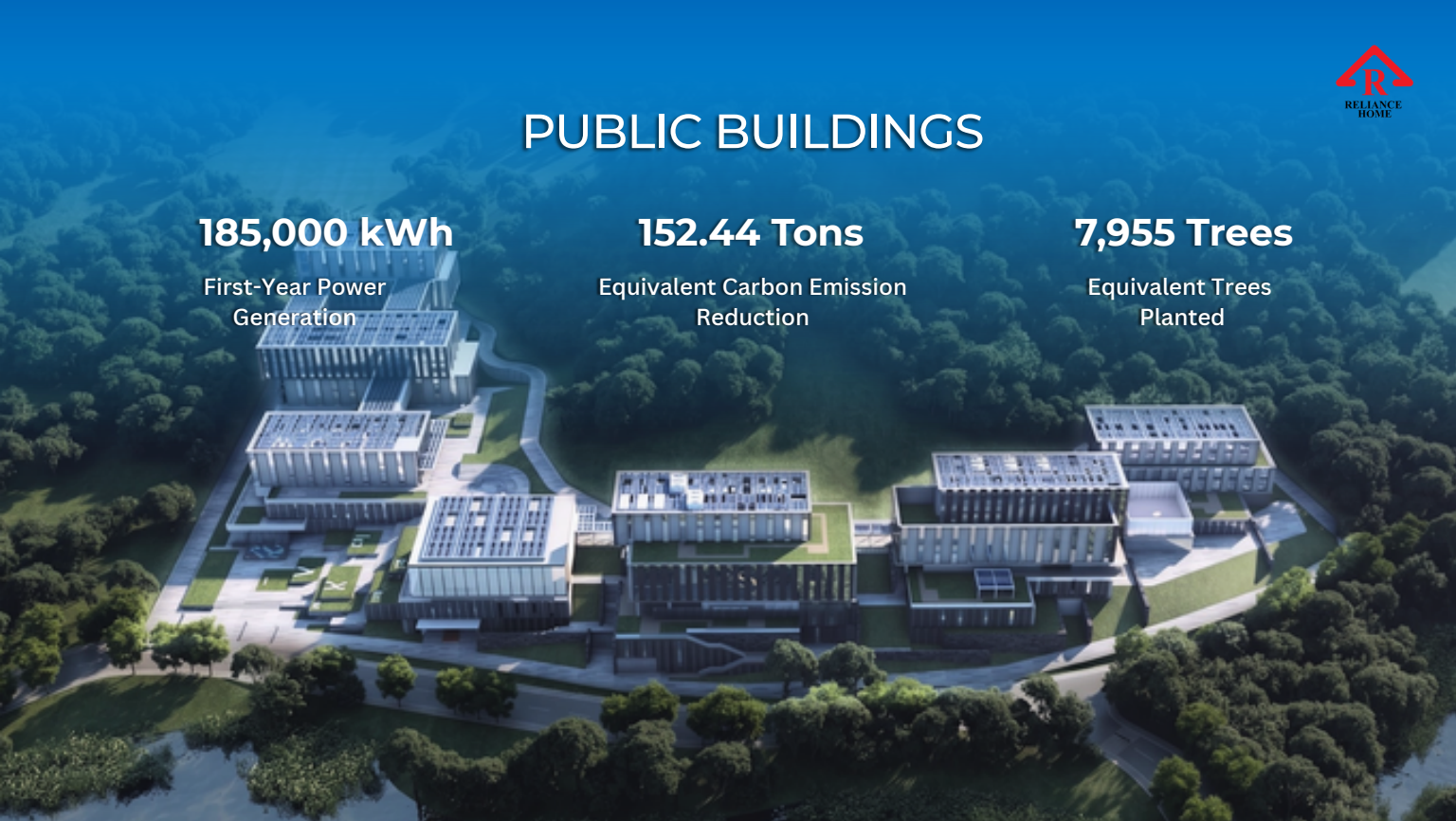
First-Year Power
Generation

152.44 Tons

Equivalent Carbon Emission
Reduction

7,955 Trees

Equivalent Trees
Planted



HOTEL BUILDINGS

509,300 kWh

First-Year Power
Generation

419.66 Tons

Equivalent Carbon Emission
Reduction

21,900 Tons

Equivalent Trees
Planted



INDUSTRIAL PARKS

5.5764 Million kWh

First-Year Power
Generation

4594.95 Tons

Equivalent Carbon Emission
Reduction

240,000 Trees

Equivalent Trees Planted



RESIDENTIAL BUILDINGS

185,000 kWh

First-Year Power
Generation

152.44 Tons

Equivalent Carbon Emission
Reduction

7,955 Trees

Equivalent Trees
Planted





Photovoltaic Building Materials

- Submit product requirements (standard/custom products).
- Far East Green Energy R&D and production.
- Quality inspection and transportation to project site.



EPC Engineering

- Client company invests its own funds to build the PV power station.
- Tender to determine EPC contractor, responsible for design, procurement, and construction.
- Possesses necessary permits: work safety license, construction labor license, power facility installation (repair, testing) license, and relevant qualifications.



Energy Management

- Integrates resources within the group to conduct energy management business through industrial synergy.





CONTACT US

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