

# Integrating Solar into Our Life

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# Dream of Using Solar Energy



Powering  
50 years

lications  
ears

Barrier is Cost

# My Career

# FOI



门发布  
又在商  
复除其  
子公，  
也。

# UNE

1988-1991  
Training UNSW

1992-2000  
Academic UNSW / Pacific Solar

2001-2013  
Entrepreneur Suntech

2014-  
Career trough and  
Re-Start

# Roller Coaster of Solar Industry

➤ Over Supply

➤ Trade Barrier

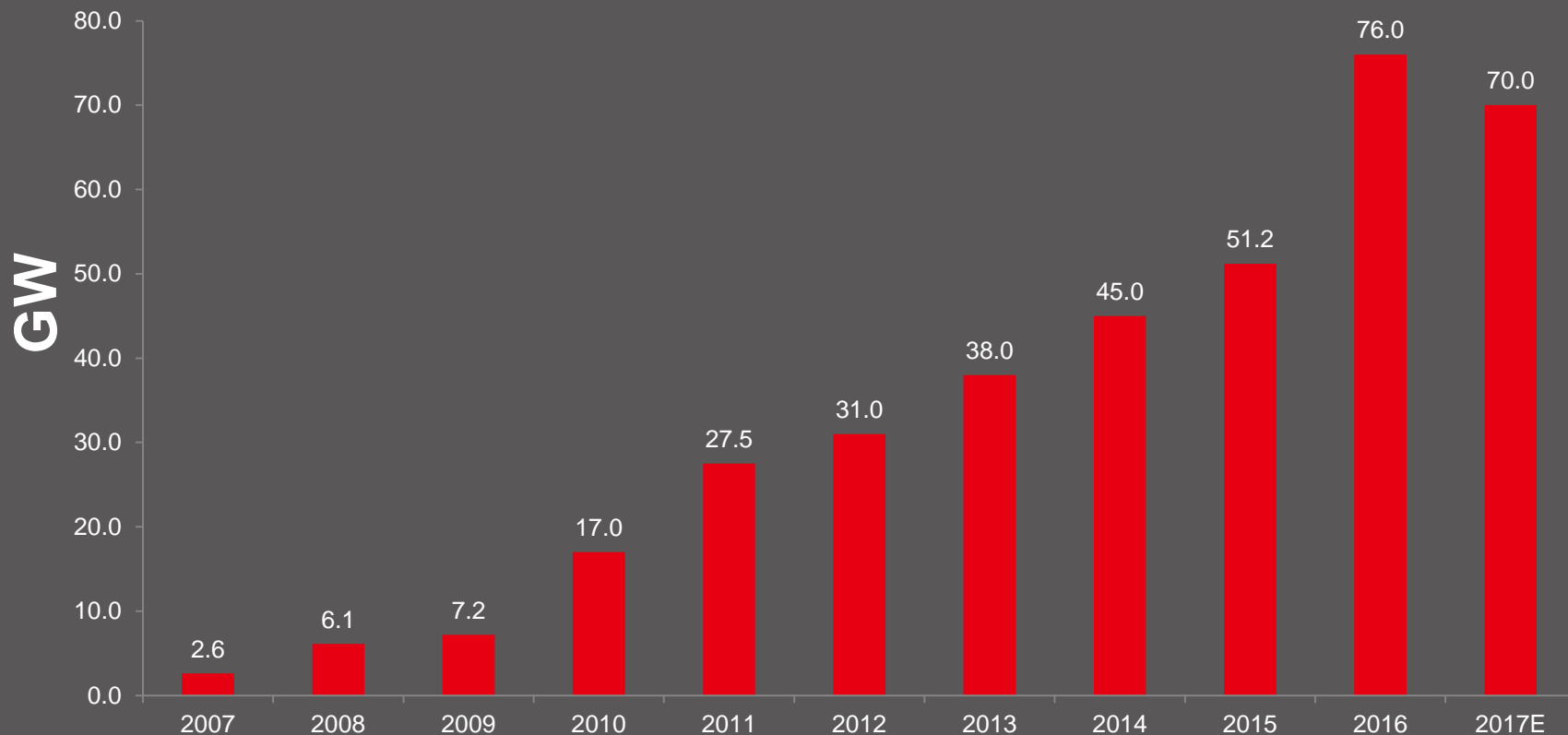
➤ Financial Crisis

➤ Policy Change

➤ Material Supply



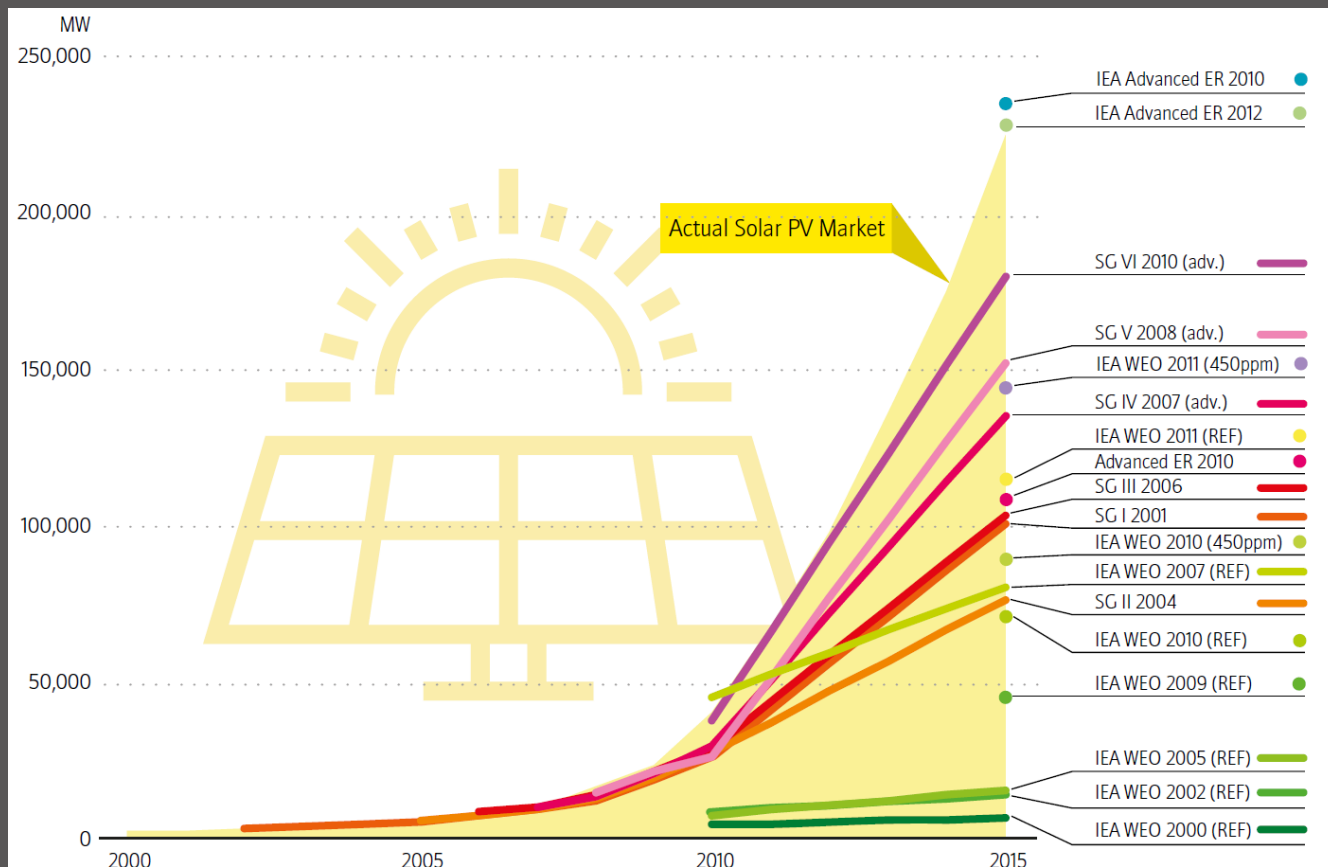
# Solar Industry is Becoming Strong and Mature



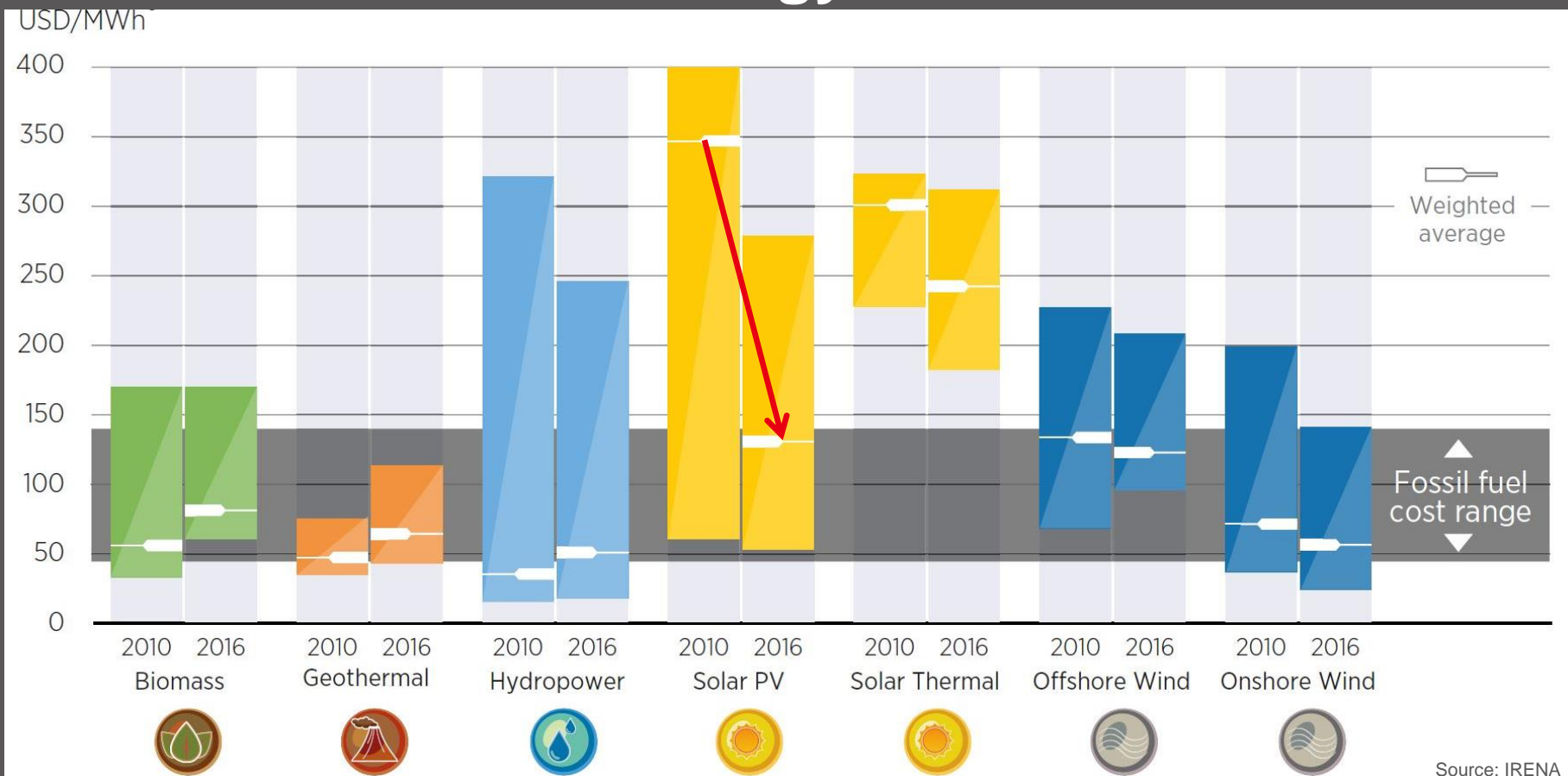
Source: Mercom Capital Group

# Solar photovoltaic projections versus real market developments

**305 GW**  
**Until 2016**



# Cost of Renewable Energy



**The current deployment of solar is primarily in solar farms**

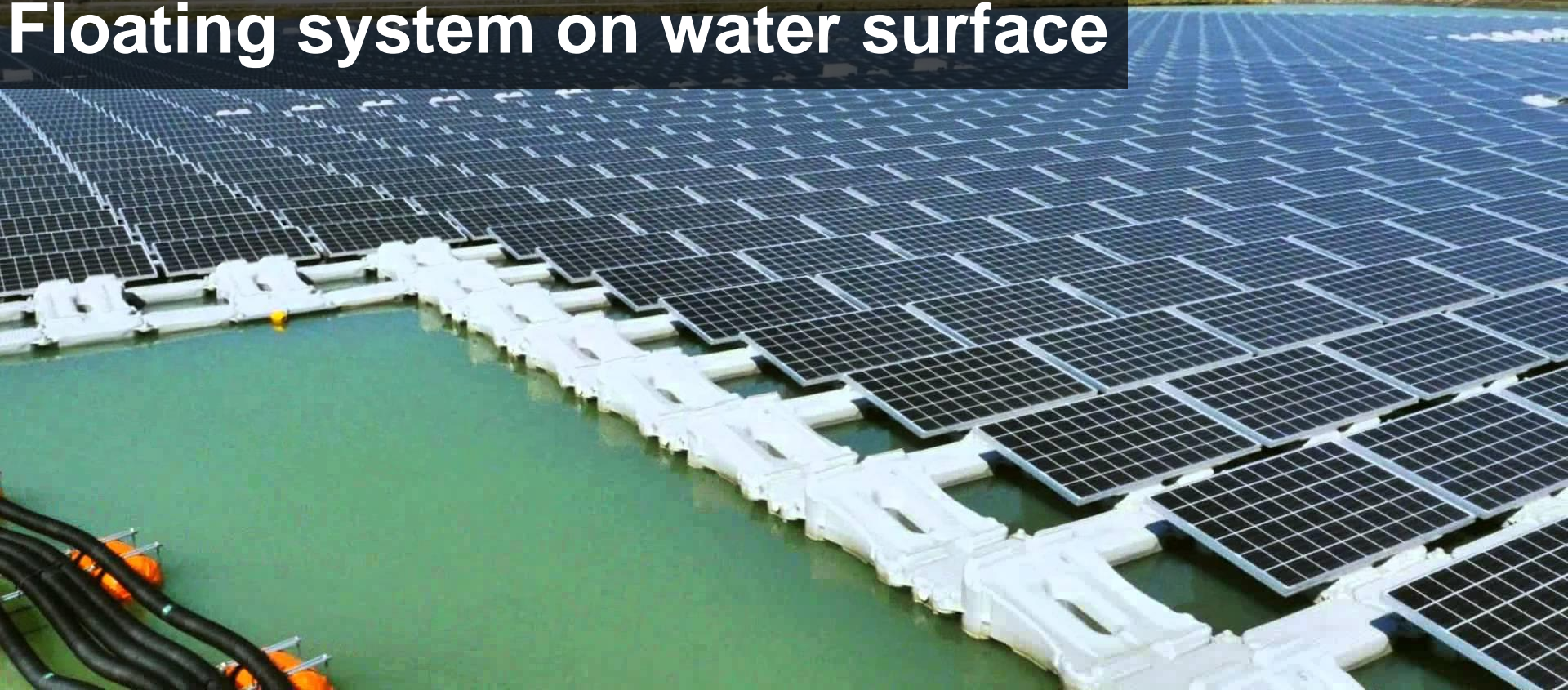




**Also some retrofitted installation  
on rooftops**



# Floating system on water surface

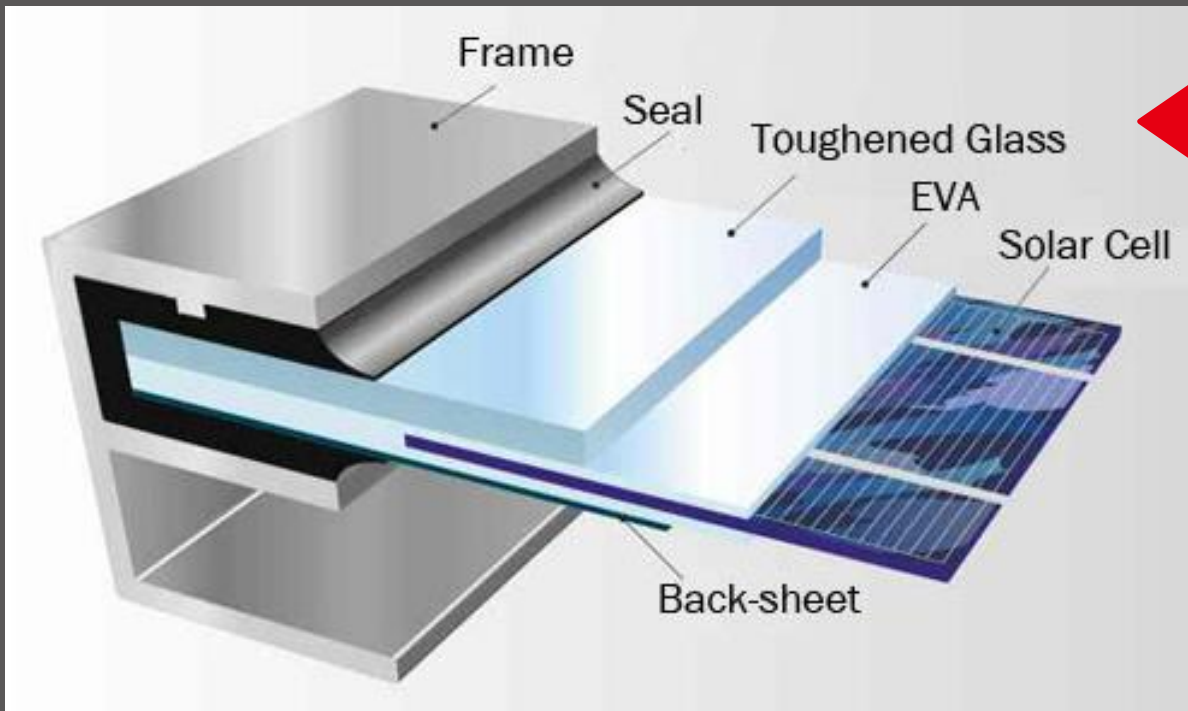


**A long time desire of integrating solar onto buildings**

**But, so far, the city is still empty of solar.  
Why?**

**The current product format can not be applied to buildings easily**

# Current Product



Weight of solar panel = 20 kg

Weight of solar cells = 0.72 kg

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**Only 3.6% makes electricity**

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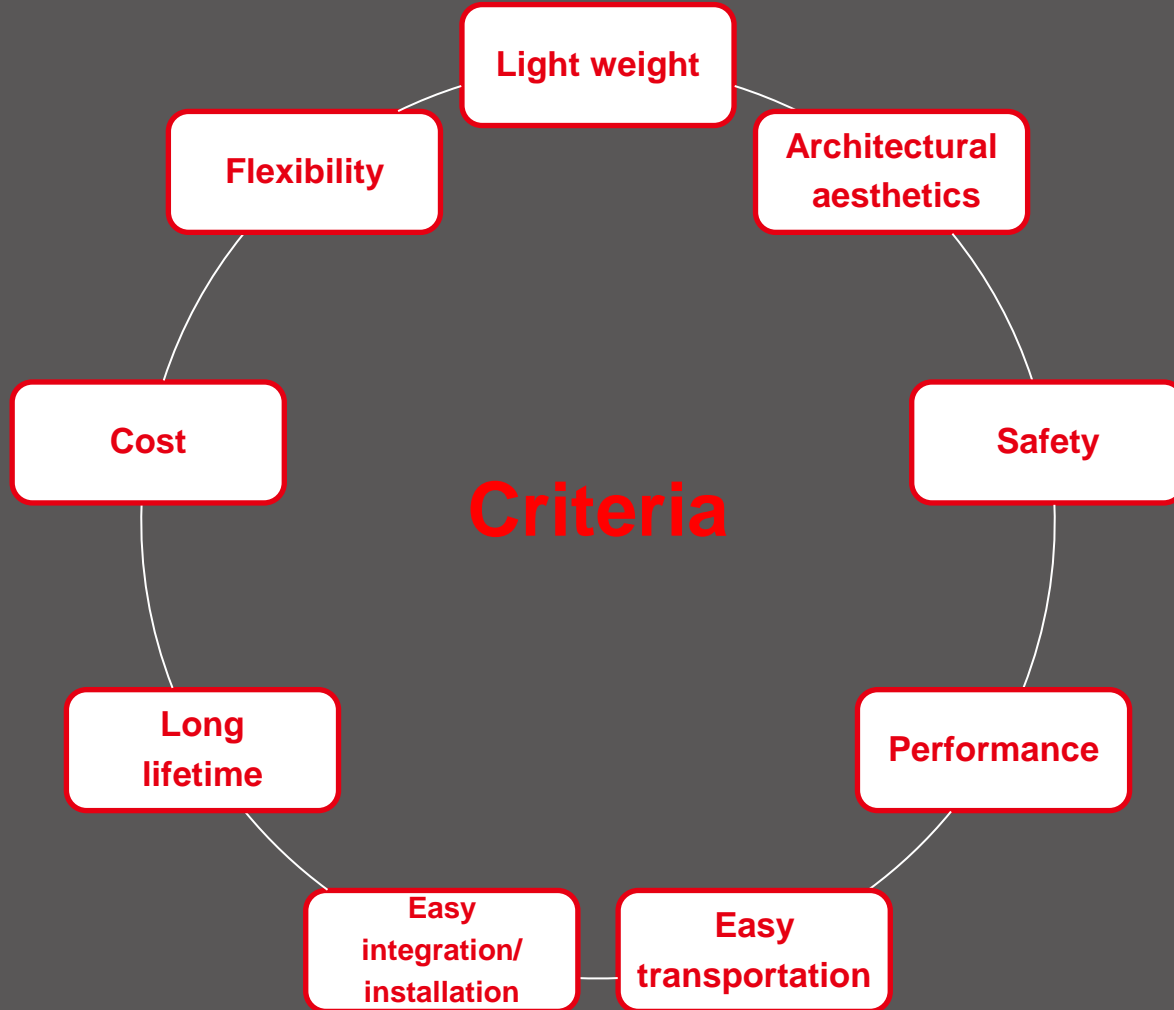
Thickness of panel = 40 mm

Thickness of cell = 0.5 mm

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**Only 0.0125% makes electricity**

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# Other Alternative Technologies

**CIGS**



**Amorphous silicon**

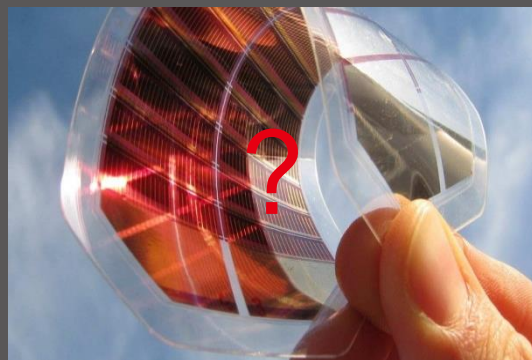


**CdTe**

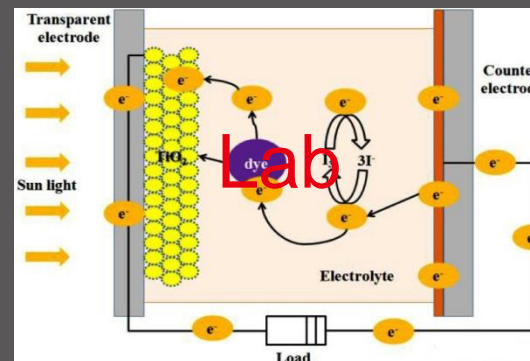


**Toxicity**

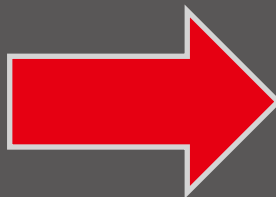
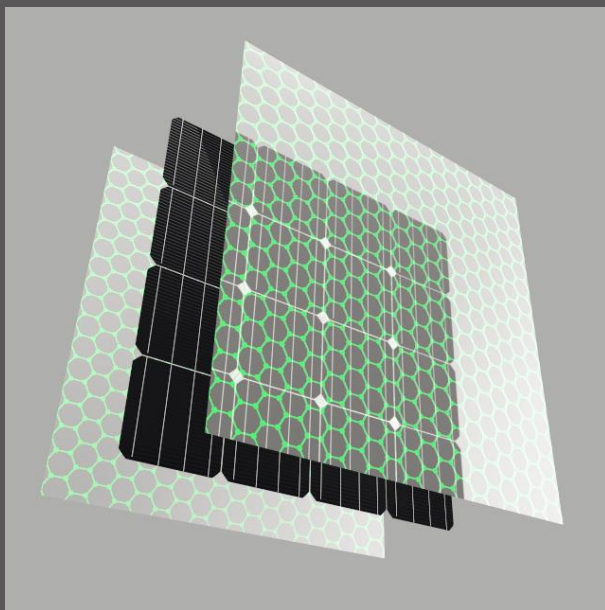
**Organic PV**



**Pervskite**



# Our approach



Optics

Insulation

Mechanical

Durability

Cost

Performance

Accreditation

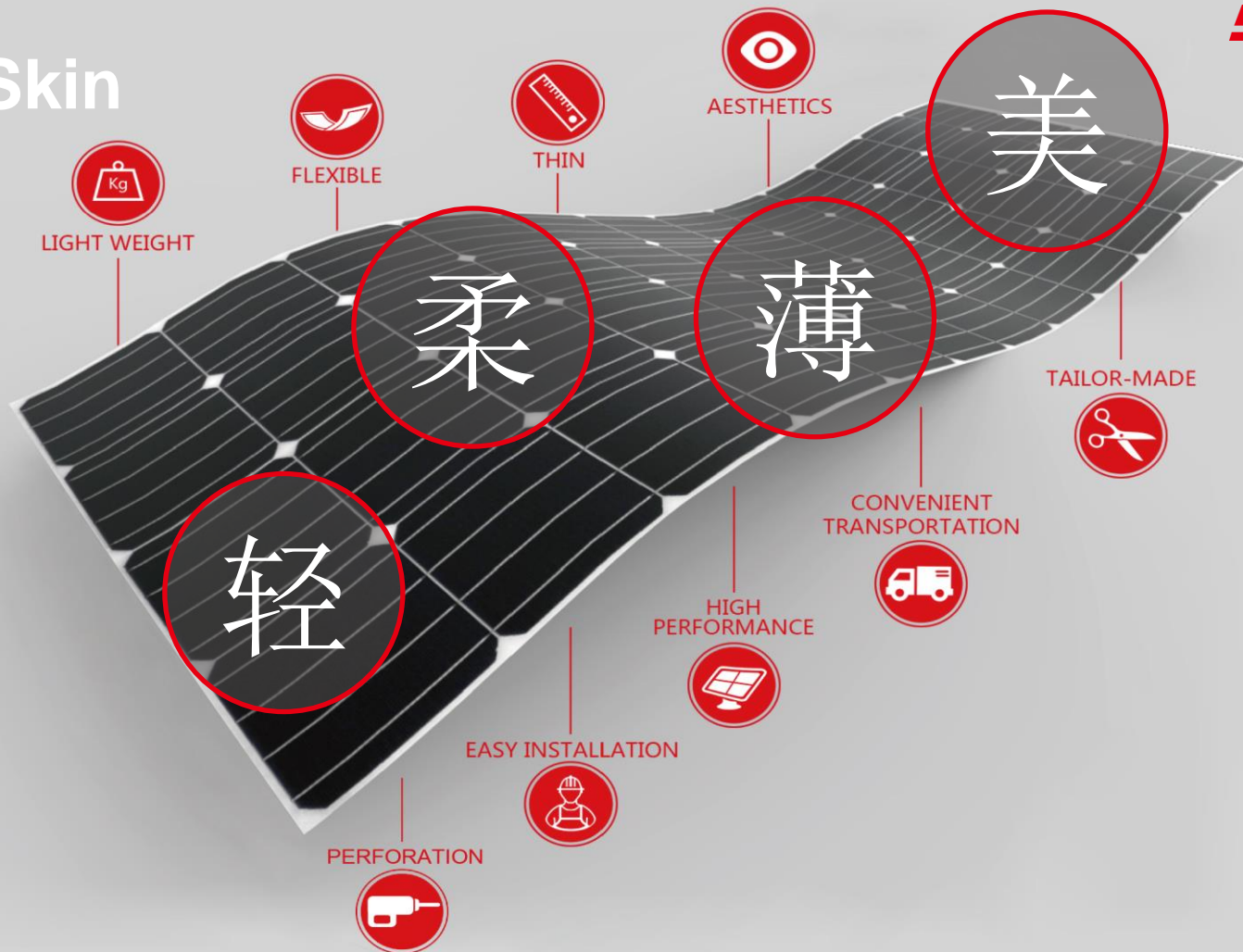
Easy installation

Aesthetics

Safety

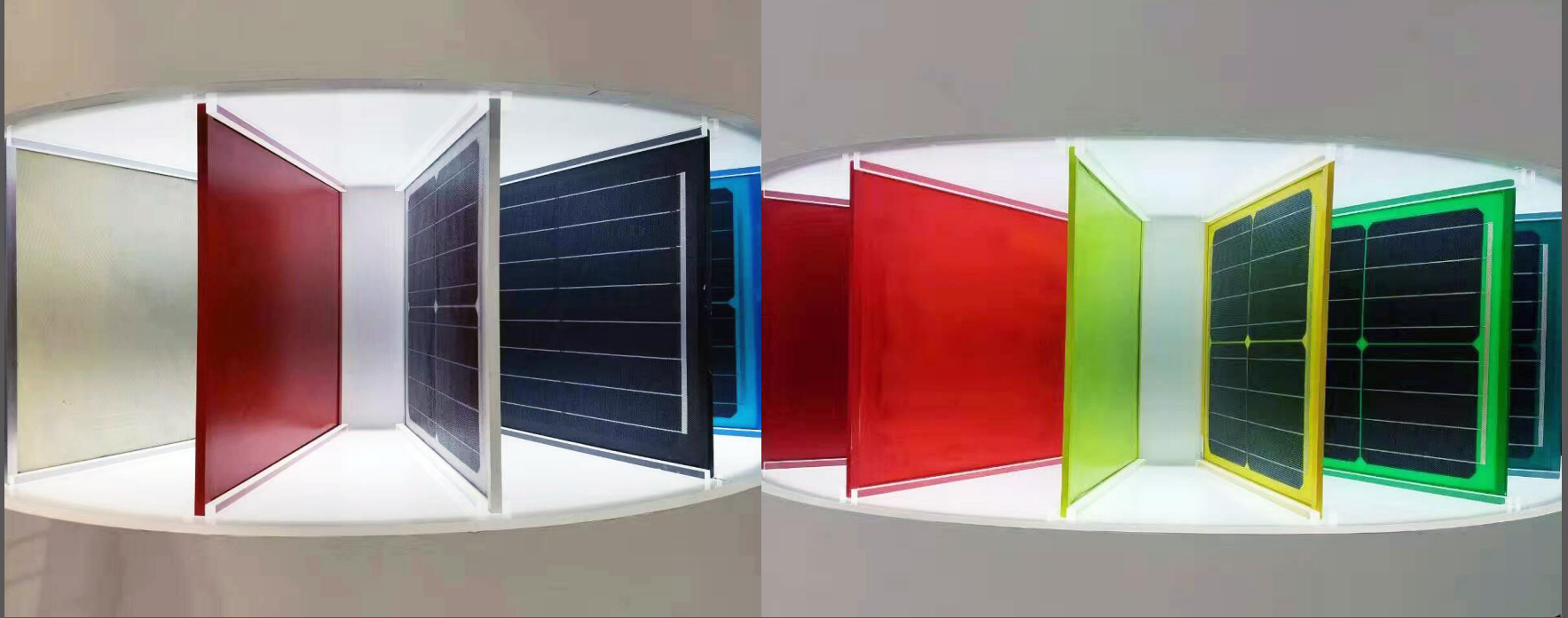
Recycle

# Solar Skin

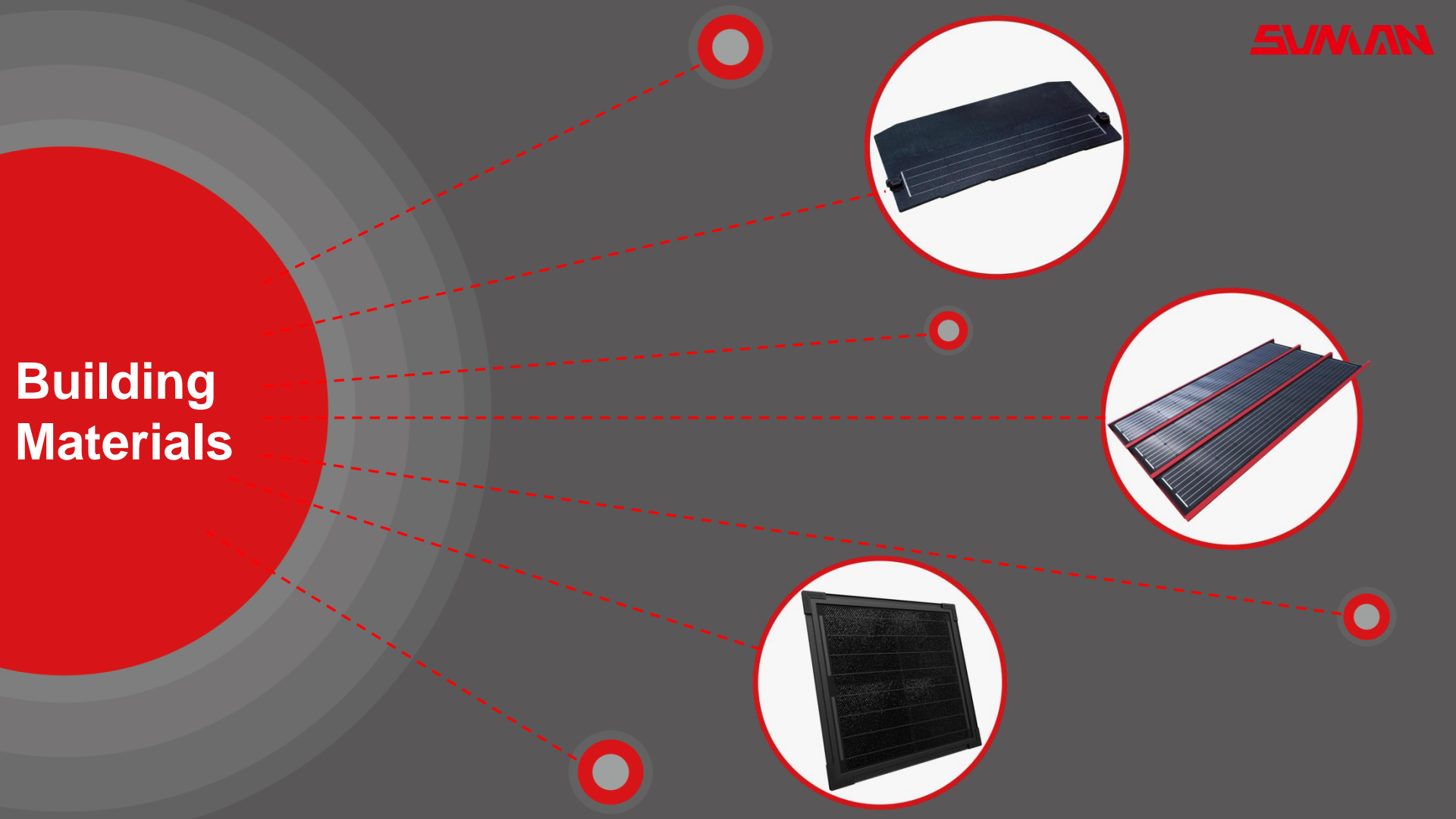
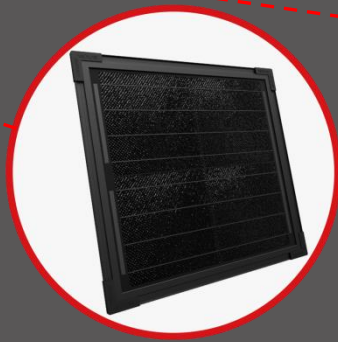
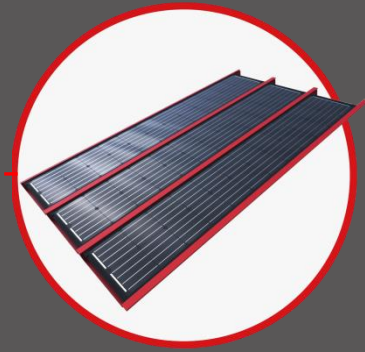




# Solar Skin



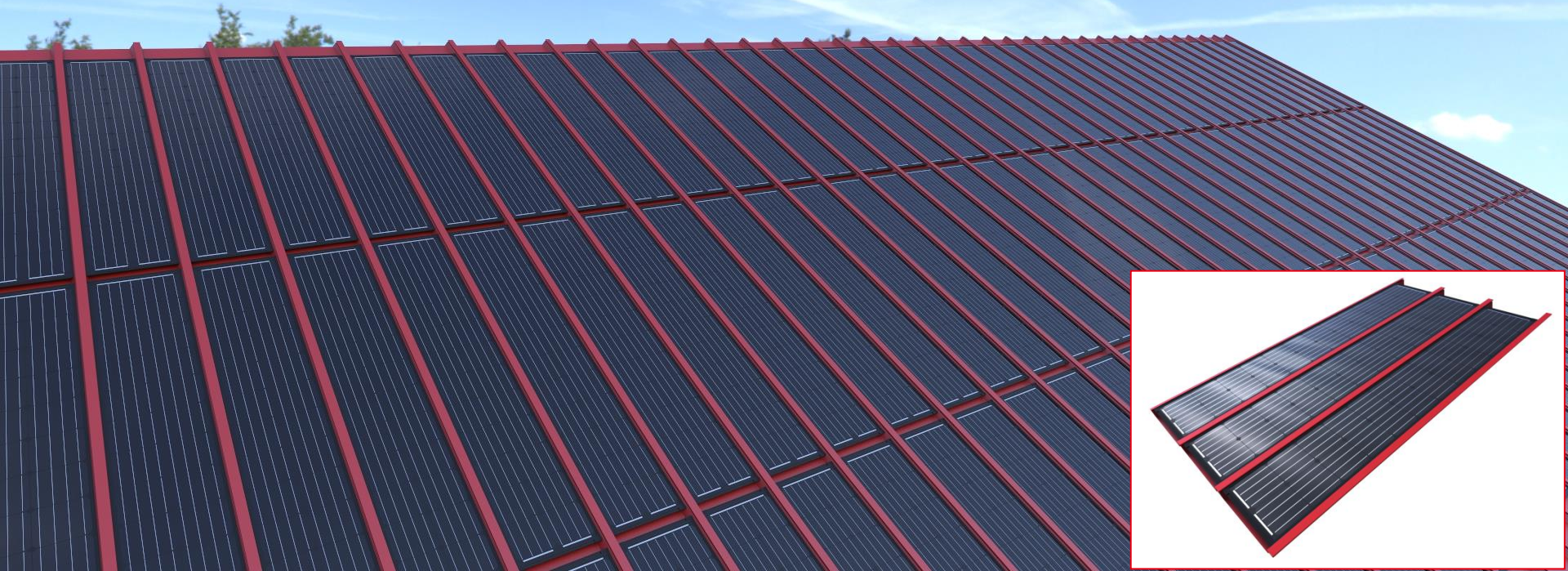
# Building Materials



# Tile Roof



# Metal Roof



# Facade





Bus

SUNAN



# Car

ABS Plastic Suitcase

Rubber Handle

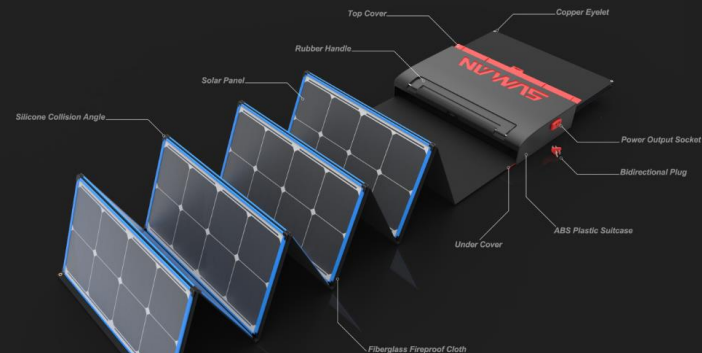
Solar Panel

Fiberglass Fireproof Cloth

Copper Eyelet

## POWER-SUITCASE

Portable Solar Power Generation System for Car





# Train



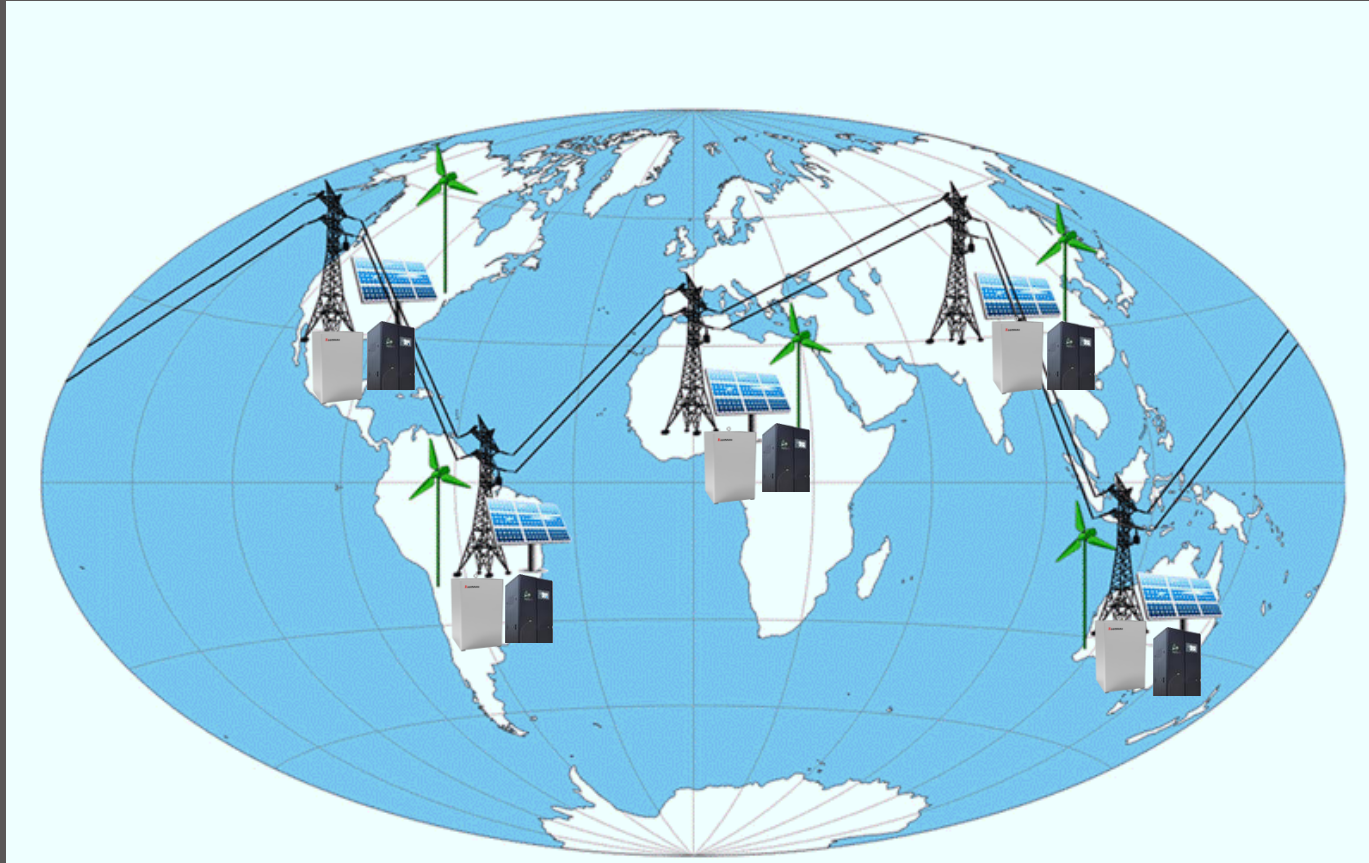
# Other Applications



A composite image featuring a solar panel in the foreground, glowing white circles, and a sunset beach scene with rock formations in the background. The solar panel is tilted and appears to be part of a larger, abstract structure. The glowing circles are of various sizes and are arranged in a way that suggests a continuous path or cycle. The background shows a sunset over a beach with several large rock formations silhouetted against the sky.

# Integrating Solar into Our Life Free and Endless Source of Energy

# My vision of energy in the future



Imagine the  
potential!

