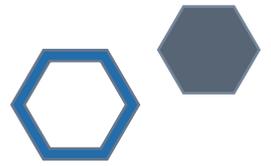


**THE NEW GENERATION OF  
LIGHTWEIGHT MODULES**



# About Us

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Founded in 2023 by senior experts with PhD degree in the industry, Peakup Power is an innovative company focused on R&D, production and sales of high-efficiency solar cells and modules.

With 20+ years of expertise, we operate a production base in Ma'anshan and collaborate with major PV enterprises across Europe and Japan. Mastering BC technology, we have developed proprietary PEC encapsulation and core manufacturing equipment. Through close partnerships with leading universities, we transform cutting-edge research into proprietary technologies, strengthening our IP and competitive advantage.

## Business Scope

Cell



Module



BIPV



Storage



Tracking



## Mission

For a better world tomorrow through ongoing innovation.

## Vision

Committed to be a provider of top-quality solar products and perfect solutions.

## Value

Being realistic, pragmatic, and moving forward together.



# WHY CHOOSE US?

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With dedication to innovation, environmental responsibility, and top-tier performance, Peakup Power is shaping the future of solar energy in Europe and beyond.



## R&D Strength

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Peakup Power has built up an international R&D team of experienced experts with Professor Martin Green as the chief scientist. With years of experience in R&D, Peakup Power is able to quickly adapt to market trends and empower energy users with tailored products and solutions.

Besides, Peakup Power has established strategic partnerships with some of the leading research institutes and universities to strengthen our innovation efforts.



**Chief Scientist**  
**Prof. Martin Green**

Member of US National Academy of Engineering

Professor at the University of New South Wales

Fellow of Australian Academy of Sciences

Director of Australian Center for Advanced Photovoltaics

## Research Partners

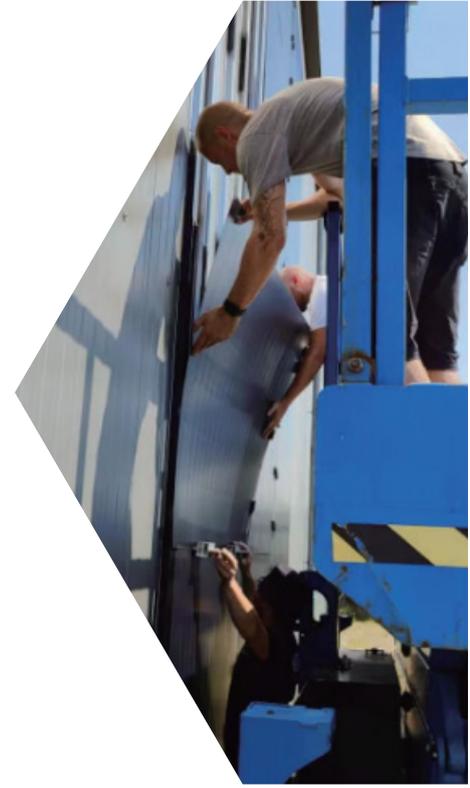


# High Level Quality Management

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## Raw Material Control

- Rigorously select with due diligence regarding raw material suppliers.
- Agreements made beforehand about the technical conditions and quality requirements.
- Conduct comprehensive quality inspections on materials before production.



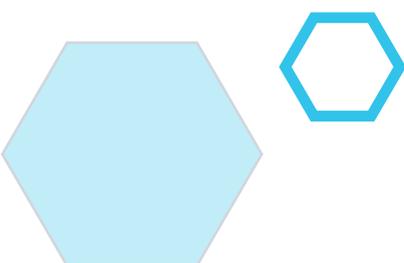
## Production Monitoring

- Factories and production lines are regularly (unexpectedly) visited and checked through professional independent audits.
- 24/7 monitoring of the production process and using of advanced automated production equipment with intelligent information acquisition and analysis systems.
- Monitor every link in production to avoid potential defects.



## Pre-delivery Inspection

- Conduct strict quality control before delivery to minimize the risk of faults and ensure the interests of our customers.
- All product data and information will be stored in the MES system for at least 30 years.
- Power tolerance of 0~+5Wp.



# Manufacturing Base

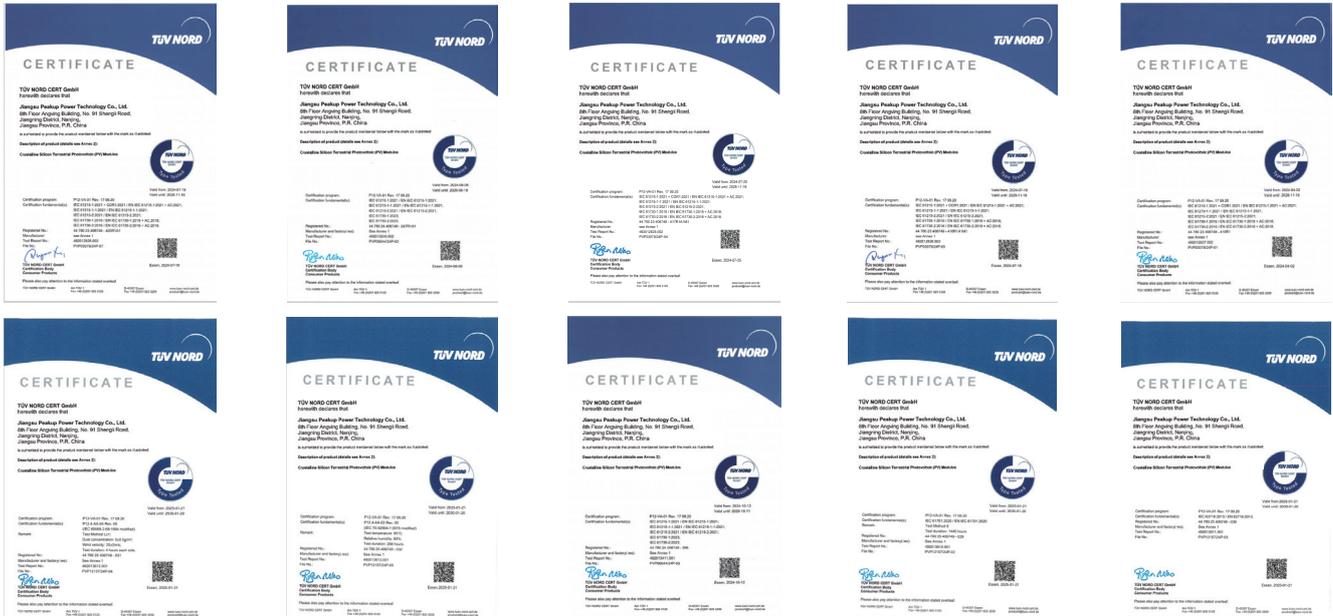


Ma'anshan



Germany  
(In progress)

# High Standards



Strict quality control guarantees a reliable product. Peakup Power's products have always maintained high reliability and solid performance based on our commitment to quality-first principle by stringent standards. All of the products are tested and approved by third-party testing groups, including the TUV and MPA.

# Our Technological Advantages

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- Lower degradation rate.
- More contact reliability due to no contact ribbons used.
- Superiority in fire-resistance.
- Excellent performance in dynamic load (wind, snow, hail etc).

**Higher  
Reliability**

- No busbar shading on the front of the cell, raising power generation efficiency.
- Lower encapsulation loss due to ten-fold current transfer interface.
- Cell efficiency > 26% ; module performance efficiency increased by 5-8%.

**Higher  
Efficiency**

- Replacing soldering ribbon with conductive foil, making our modules 100% lead free and easier to recycle.
- Compatible with ultra-thin silicon, reducing energy consumption.

**More  
Environmentally  
Friendly**

- Up to 30 years performance warranty for single glass module and 25 years performance warranty for flexible module.
- Lower LCOE.
- Higher conversion efficiency, lower operating temperature and higher ROI for terminal clients.

**Higher ROI**

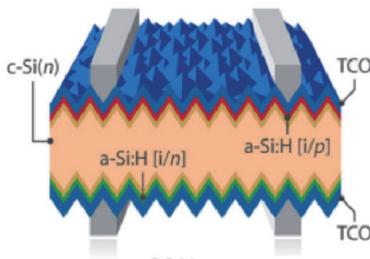
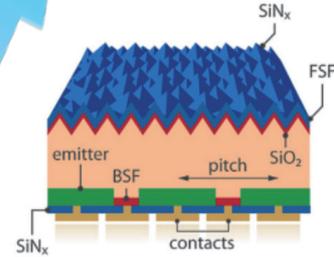
- No busbar design and visually appealing appearance.
- Customizable product; route design of the conductive foil can enable cell connections in any position for optimal layout.

**More  
Aesthetically  
Pleasing  
Appearance**

# Trend of Cell Technologies

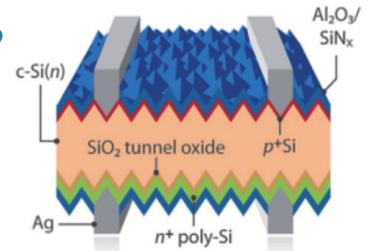
## BC is the ultimate form of Si solar cells!

- Higher efficiency and power output
- Better low temperature coefficient
- More aesthetically pleasing
- Used in a wider range of applications



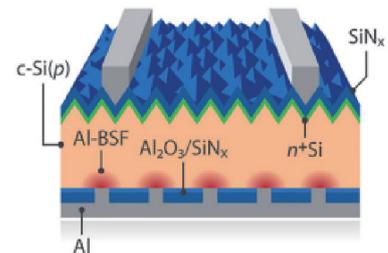
**HJT**  
(hetero-junction technology)  
Limiting Efficiency: 28.5%

**IBC**  
(interdigitated back contact)  
Limiting Efficiency: > 29.1%

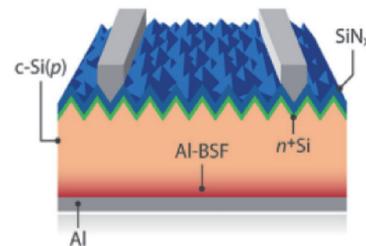


**TOPCon**  
(tunnel oxide passivated contact)  
Limiting Efficiency: 27.1%

**PERC**  
(passivated emitter and rear cell)  
Limiting Efficiency: 24.5%



**BSF**  
(localized back surface field)  
Limiting Efficiency: 20%

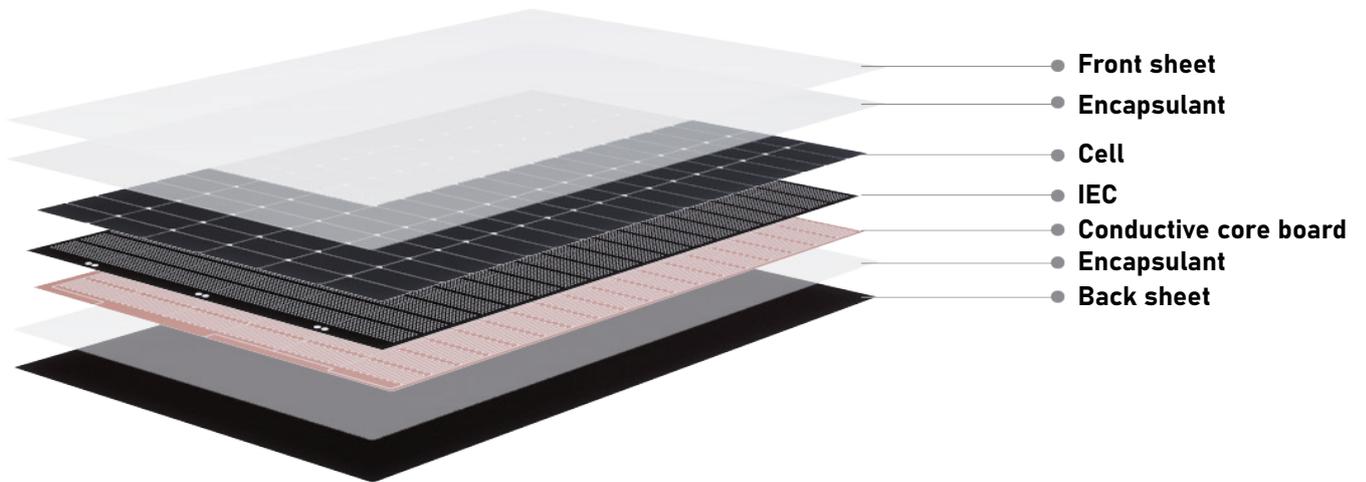
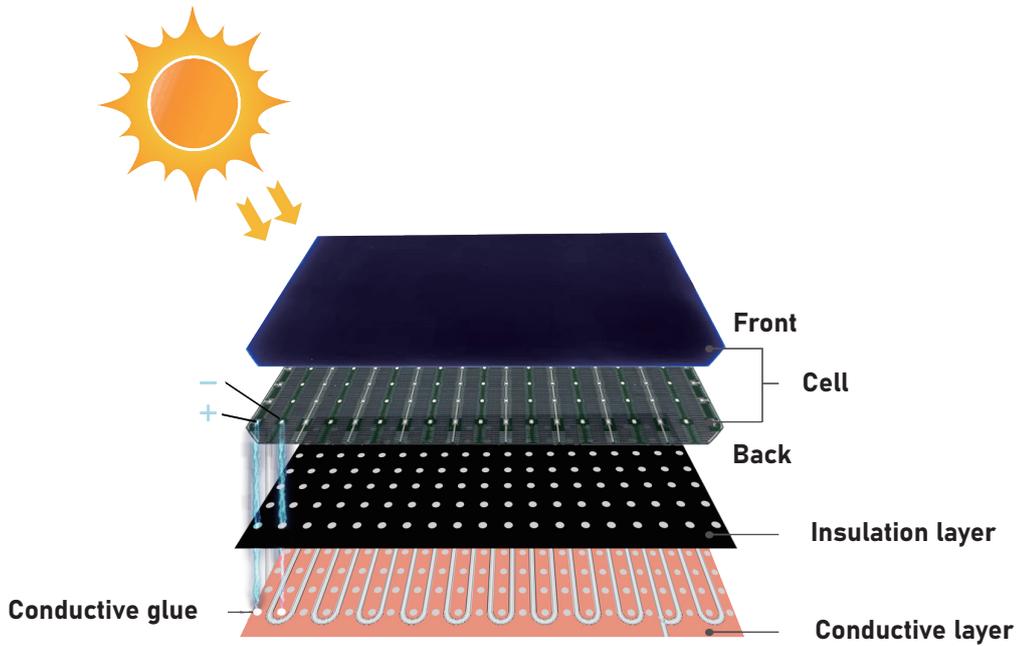


Peakup Power leverages BC technology to offer more value.

# Our Core Technology



Using unique rear-side Planar Electrical Connection technology(PEC) combined with Insulating Encapsulation Composite(IEC) to replace the conventional soldering ribbon connection technology.





## Wisteria | Full Black Single Glass Module



### **Higher** efficiency

as the cell conversion is up to 26% and performance been optimized by lower temperature due to copper backsheet



### **Optimized** hotspot resistance

based on our new PEC technology



### **More** aesthetically pleasing

busbar-free design brings uniform color (all black) in appearance



### **More** environmentally friendly

as they are 100% lead free and easier to recycle



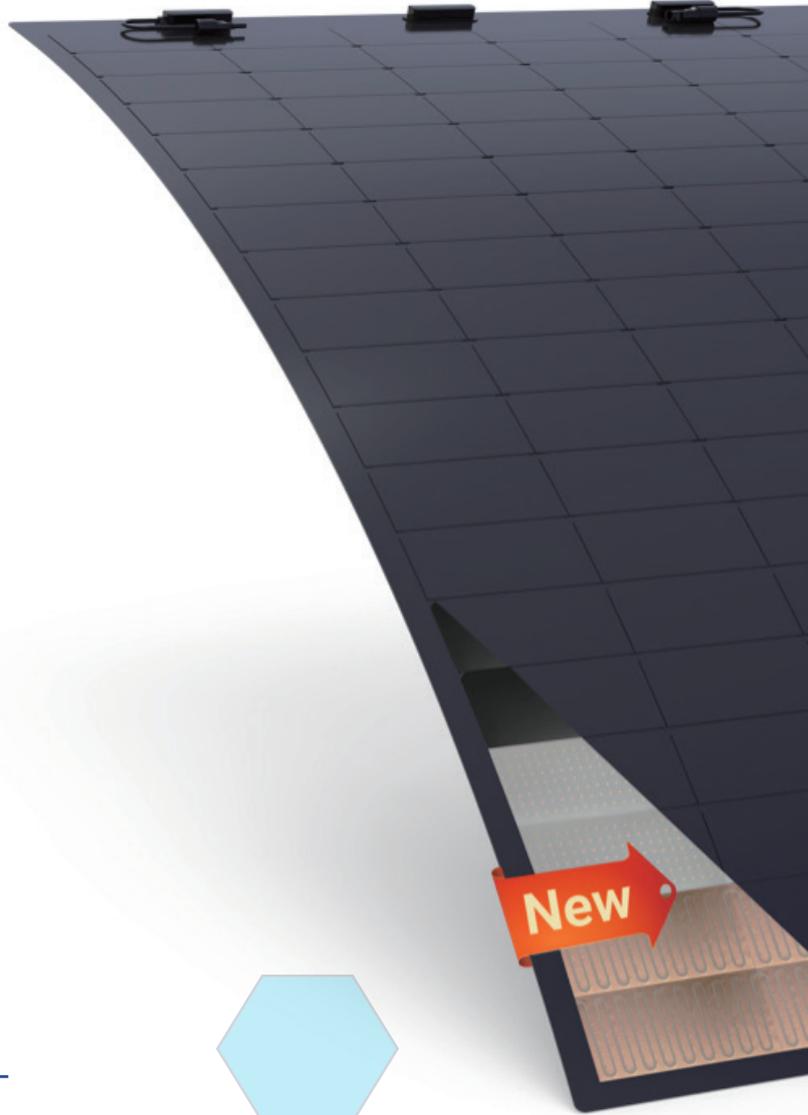
The next level of glass photovoltaic – addressing and solving challenges of people and companies which are in need for glass photovoltaic by using our innovative PEC and U-IBC technology.

- Higher output – 2% more out of every module due to “miss” of busbars in the front of the cell and no shade created
- Higher reliability – as the lower degradation rate, superiority in fire-resistance, excellent performance in dynamic load (wind, snow, hail etc.) make them more durable and reliable
- Higher performance – due to optimized heat transmission using copper





# Dandelion | 2nd Gen. Lightweight Module



## More hotspot resistance

based on our new PEC technology



## More contact reliability

as there are no contact ribbons used



## More moisture barrier

as the more layers form a vapor barrier



## More efficiency

as the cell conversion is up to 26% and performance been optimized by lower temperature

The next level of lightweight photovoltaic – addressing and solving challenges of people and companies which are in need for glass and lightweight photovoltaic by using our innovative PEC and U-IBC technology – while keeping the weight low.





## Dandelion | 3rd Gen. Lightweight Module

Same as 2nd Gen. and ...



### **More** fire resistance

as we use particularly developed front and rear encapsulation materials which make them superior in fire resistance



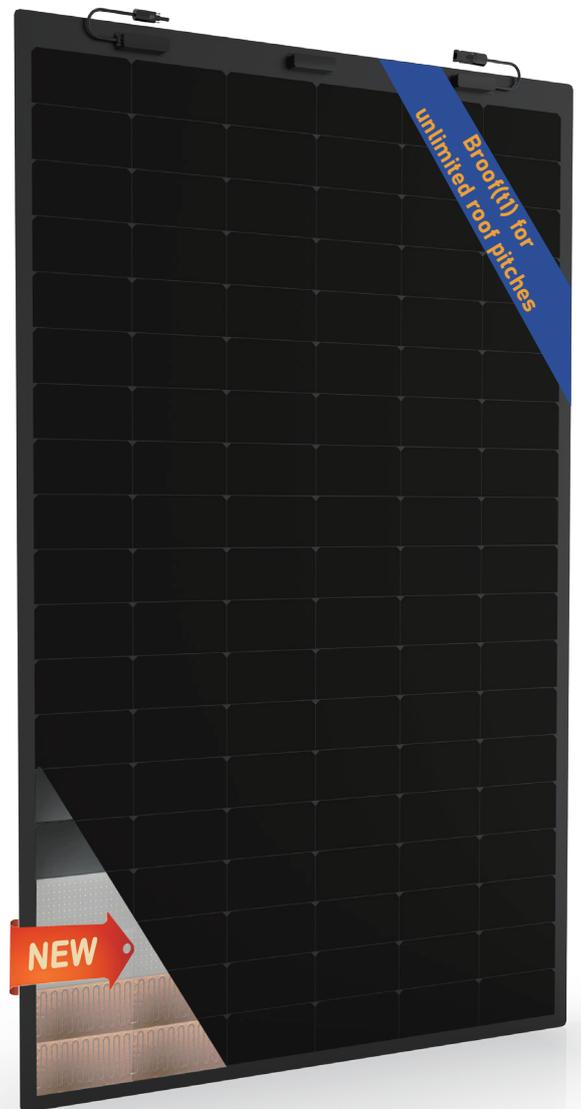
### **More** immunity against moisture

as we switched to a thicker backsheet



### **More** constructional savings

as there is no sub construction needed

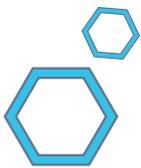


Materialprüfungsanstalt  
STUTT GART  
Universität Stuttgart

- Higher output - 2% more out of every module due to “miss” of busbars in the front of the cell and no shade created
- Higher reliability - as the lower degradation rate, superiority in fire-resistance, excellent performance in dynamic load (wind, snow, hail etc.) make them more durable and reliable
- Higher performance - due to optimized heat transmission using copper



# Balcony Solar System



## Easy to apply

they are easy for handling and mounting on the railing with cable tie



## More flexibility

as their reduced size, light weight make them suitable for balconies



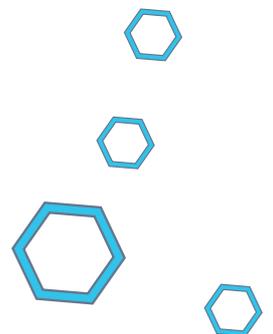
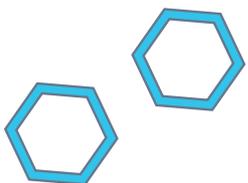
## More environmentally friendly

as they are 100% lead free and easier to recycle



## More efficiency

as the cell conversion is up to 26% and performance been optimized by lower temperature





## **Colorful** with higher output

as they use particularly developed encapsulant film with a higher light transmittance



## **More** possibilities

because the colours can be determined individually (from a certain quantity)



## **More** aesthetically pleasing

as there are more options in colors with smooth surface, ensuring better constructional integration with buildings

**An amazing option to make the module into a more aesthetically pleasing architectural element for BIPV.**





## **More** than a roof

integrating building materials with photovoltaics, it delivers fireproofing, waterproofing, wind resistance, and power generation at 50% the weight of traditional BAPV systems



## **Easy** installation

installing like traditional tiles simplifies old roof retrofits, while eliminating the need for brackets or frames significantly boosts installation efficiency and reduces labor and material costs



## **More** efficiency

as the cell conversion is up to 26% and performance been optimized by lower temperature



## **More** aesthetically pleasing

busbar-free design brings uniform color (all black) in appearance





## **Aesthetics** revolution

- full-range application-tailored colored modules;
- colors, shapes, and sizes available for customization



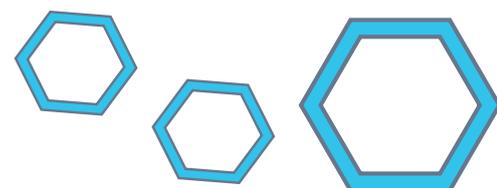
## **High** efficiency & reliability

- our modules utilize high efficiency U-IBC cells encapsulated with PEC technology;
- no soldering stress for higher efficiency and greater reliability



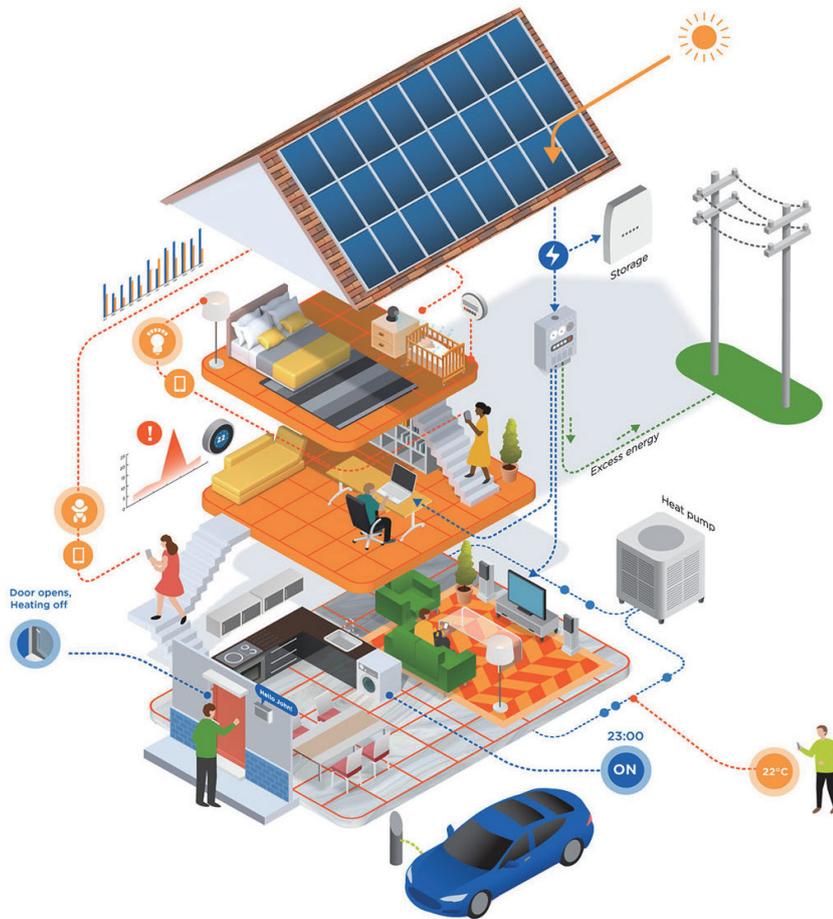
## **AI** smart tracking

- AI intelligent control for active wind resistance, snow removal, and rain-triggered self-cleaning;
- adaptive tracking technology with high-precision alignment





# Residential Energy Storage Solutions



## Maximize self-consumption

Storing the surplus solar power into the battery during the day and using it at night, which maximizes the solar energy self-consumption rate.



## Peak shaving arbitrage in TOU tariff

Charging the battery at off-peak rates and discharging to the loads at peak hours to reduce the electricity bill.



## Emergency power backup

Guaranteed 24/7 uninterruptable energy, providing backup power when a blackout occurs.



## Grid support

Feed the energy into the grid in response to grid scheduling, earning extra through energy trading.

**We offer a way to generate clean electricity for your solar-powered home.**



# Lifecycle Services



## Before

- Product introduction
- Technology consultation
- Sample support
- Calibrated by authoritative European institutes

## Sales

## During

- PO implementation
- Training on installation
- Specific management
- On-grid acceptance

## After

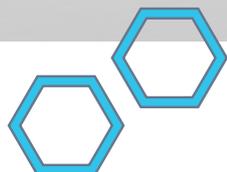
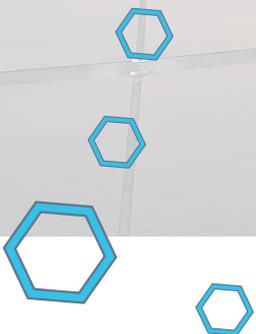
- Doorstep service
- Operation & maintenance
- Up to 30 year performance warranty



## Distribution & Logistics



With an international perspective and regional presence, Peakup Power works with local partners to establish robust distribution and logistics networks, ensuring convenient access to our advanced product portfolios for all our global customers. Together, Peakup Power strives to make a difference in driving the world's energy transformation.





# Projects



**Utrecht, Netherlands**



**Prague, Czechia**



**Ma'anshan, China**



**Netherlands**



**Westfield Chodov, Czechia**



**Jiangsu, China**



**Lienen, Germany**



**Würzburg, Germany**



**Germany**



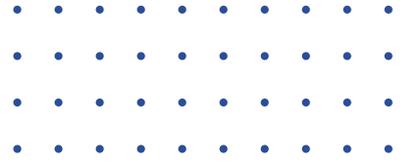
**Singapore Changi Airport**



**Türkiye**



**Burkina Faso**



**PEAKUP POWER**

To become the premier provider of pioneering solar technology, driving environmental responsibility, reducing carbon emissions, and enhancing energy security.

**For BeNeLux & France**

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