

**Since 2003**

# PV MODULE MANUFACTURER

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**IT'S TIME TO SAVE THE WORLD.**

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# ABOUT » AESOLAR

DR. ALEXANDER MAIER  
CEO & Founder



Founded in 2003 and headquartered in Augsburg, Bavaria, AESOLAR is a German solar enterprise committed to advancing high-quality photovoltaic technology and sustainable energy solutions. With manufacturing facilities in China and Turkey, and branch offices in the United States, Brazil, Switzerland, AESOLAR operates a global network that extends to more than 100 countries and regions.

AESOLAR has focused on long-term value through technological innovation. Our comprehensive product line covers all mainstream PV technologies, designed and manufactured to meet the strictest quality standards. Through fully automated 6-axis robots production lines, advanced encapsulation techniques, and precision-controlled cleanroom environments, we ensure the consistent delivery of durable, high-efficiency modules to meet diverse energy needs.

**2003**  
EXPERIENCE SINCE

**4000+**  
SUCCESSFUL PV INSTALLATIONS

**100+**  
COUNTRIES

# AESOLAR

Deutsche  
Qualität  
Garantiert

AESOLAR's engineering expertise goes beyond modules. We provide full-scenario PV system development—from residential and commercial rooftops to utility-scale plants and off-grid applications. Our team delivers complete turnkey solutions including system design, installation, and technical support, built around the unique needs of our customers.

In our two-decade journey, AESOLAR has continuously introduced technical breakthroughs. Certified under ISO 9001, 14001, and 45001, we hold a wide array of product certifications including TÜV, CQC, and INMETRO. This foundation is reinforced by premier industry rankings and awards — including BloombergNEF Tier 1, Wood Mackenzie Grade A, SMM Global Tier 1, and EUPD Research Top PV Innovation awards. In 2016, we developed the world's first mass-producible, hot-spot-free smart module. In 2025, our Horizon carport series earned DIBt certification, making AESOLAR the first Tier 1 PV manufacturer globally to meet this benchmark.

Unlike most sales-oriented companies in the industry, AESOLAR focuses more on listening to the needs of its customers and researching and developing accordingly. Making clean energy available to our customers all over the world is our starting point and our goal!



To promote an eco-friendly, risk-free, clean and safe energy source on a global scale.



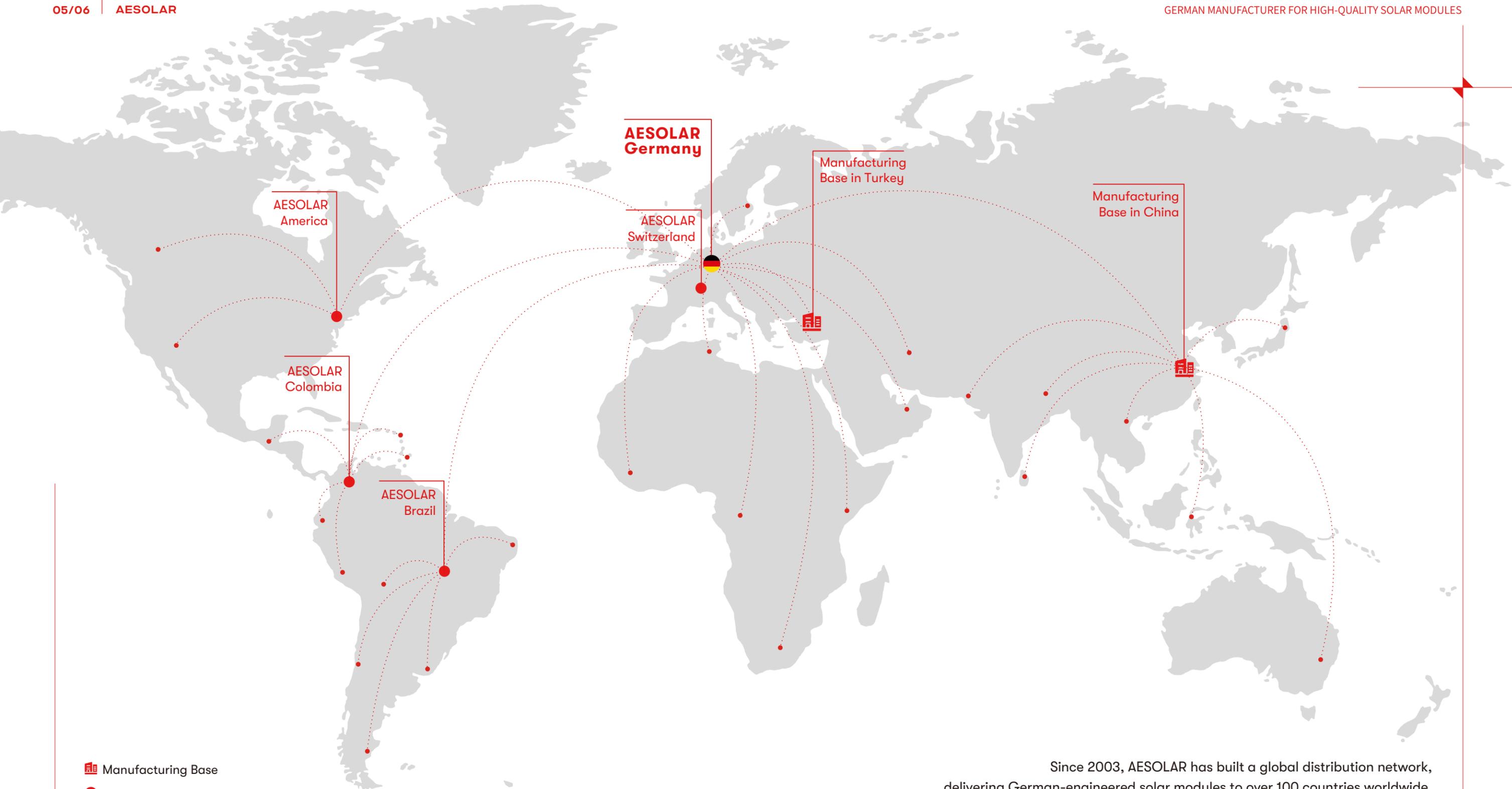
To develop solar energy around the world by top expertise in pv.



Serving our clients by cost-effective efficient and high-quality products.

# DEVELOPMENT MILESTONES





Since 2003, AESOLAR has built a global distribution network, delivering German-engineered solar modules to over 100 countries worldwide.

# GLOBAL PRESENCE

# TOP MANUFACTURING

SMART MANUFACTURING FACTORY

## CHINA

Manufacturing Line

## TURKEY

Manufacturing Line



The manufacturing of AESOLAR adopts a highly automated process, and the production line makes extensive use of six-axis robots, whose efficiency and precision are superior to that of gantry robots used by most mainstream manufacturers, which guarantees the production efficiency of high-quality modules to the greatest extent possible, and is in line with European standards.

# CORPORATE & PRODUCT CERTIFICATION

AESOLAR operates under a full suite of globally recognized management systems, including ISO 9001 for quality management, ISO 14001 for environmental sustainability, and ISO 45001 for occupational health and safety. These certifications reflect our ongoing commitment to operational excellence, responsible manufacturing, and employee well-being.

Our products undergo rigorous third-party testing and are certified across all major global markets. From TÜV and CQC to INMETRO and the China Energy Label “Top Runner,” AESOLAR modules are verified for safety, durability, and long-term performance. Notably, AESOLAR is the world’s first Tier 1 solar module manufacturer to receive DIBt certification, validating the suitability of our products for architectural applications under Germany’s strict building code.

With a robust end-to-end certification framework—spanning R&D, production, and quality control—we ensure our modules meet the evolving technical, compliance, and financing requirements of diverse global markets.



# RECOGNITION & INDUSTRY LEADERSHIP



## Recognized By Experts, Trusted By Market

AESOLAR has been 16-time listed since Q1 2021 on the BloombergNEF Tier 1 list, underscoring our bankability and supply chain credibility.

In 2023, AESOLAR was named “Top Performer” by Kiwa PVEL in its Product Reliability Scorecard, a testament to the durability and field-tested resilience of our modules. In 2025, we were honored with the “Top Innovation PV Brand in Germany” award by EUPD Research, further establishing our leadership in module design and innovation.

From rigorous lab evaluations to real-world energy yield testing, AESOLAR modules have consistently outperformed in both indoor and outdoor benchmarks—proving their value across residential, commercial, and utility-scale applications.

Through ongoing innovation and strict quality governance, AESOLAR continues to deliver German-engineered PV solutions with long-term performance, investor confidence, and environmental responsibility at their core.



# METEOR

N-TYPE TOPCON TECHNOLOGY



# ECLIPSE

N-TYPE **BACK CONTACT** TECHNOLOGY



## 415W-730W



## 470W-660W



**01**  
N-Type cell technology

**02**  
No LID or LeTID

**03**  
High efficiency and power output

**04**  
Cost-effective scalability and market dominance

**05**  
Low degradation and high durability

**01**  
5% higher power density per unit area versus conventional modules

**02**  
>88.8% power retention guaranteed after 30 years – industry-leading durability

**03**  
Hotspot-resistant design prevents fire risks under shading conditions

**04**  
-0.26%/°C temperature coefficient ensures superior performance in heat

**AURORA**  
P-TYPE PERC TECHNOLOGY



**HORIZON**



## Solar Panels Designed for Carports **420W-590W**

- Exceeds PV durability standards as per **DIN ISO 12543-4**
- Module overhead safety ensured by extended adhesion test as per **DIN EN ISO 8510-2**
- Fire resistant according to **DIN 4102-1**
- Highly resistant to impact according to **DIN EN 12600**
- Highly durable under mechanical loads as per **DIN EN 18008-1 & 2**
- **DIBt certified**  
(from the German Institute for Construction Technology)  
for safety, durability, and compliance in building-integrated applications



## **360W-660W**



**n1**

Established durability  
and yield data

**n2**

High flexibility  
with BOM



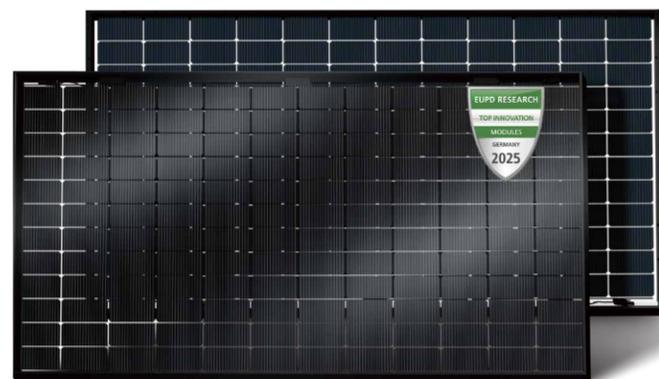
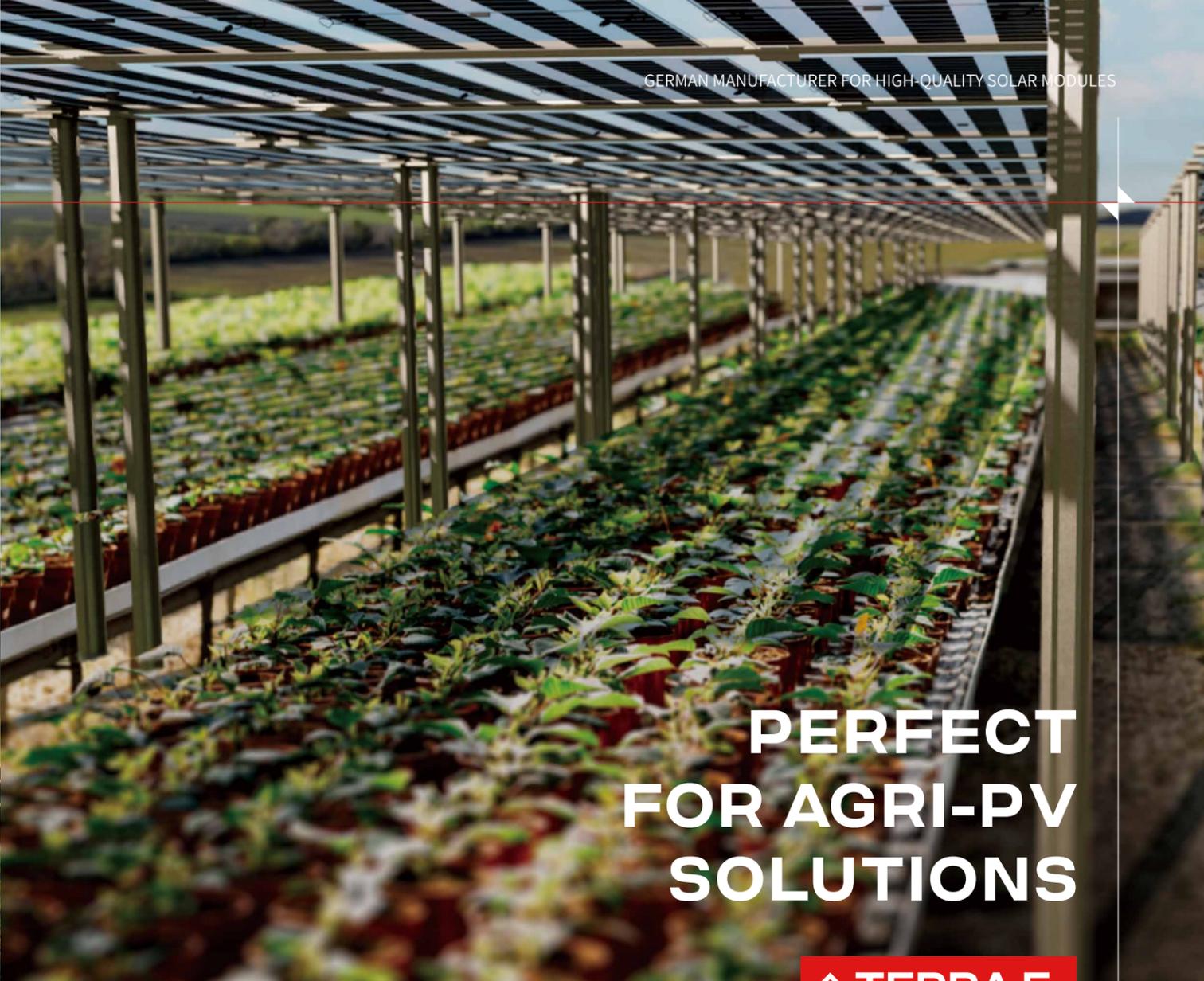



# HIGH TRANSPARENCY

⬆️ **TERRA V**

## 560W-580W

- Up to 75% less cell breakage probability under mechanical loads
- Highly durable against wind and snow
- Higher energy yield due to the elimination of self-shading from cables, junction boxes or frames
- Ideal for AgriPV & sound barriers, as well as other vertical installations

# PERFECT FOR AGRI-PV SOLUTIONS

⬆️ **TERRA E**

## 280W-395W

- Protects crops from heavy rain, hail, and wind
- Protects crops against frost and drought under extreme sunshine
- Suitable for installation on greenhouse roofs
- 40% light transmission for homogeneous light distribution under the module
- Highly reliable and durable under mechanical loads



# Redefining Resilience in Extreme Weather

N-TYPE TOPCON TECHNOLOGY



## 420W-595W



### 01

Certified to endure 40mm hailstones (HW4)

### 03

3.2 mm glass thickness on the front, offering exceptional durability

### 02

T6 high-strength anodized aluminum alloy frame, ensuring stability in harsh conditions

### 04

Reducing maintenance costs, offering long-term reliability for hail-prone regions



# ALPINE



 **MIRAGE**  
Colorful Single-glass Module



**Customizable Aesthetic PV for Perfect Architectural Integration**

**01**

Multiple levels of light transmittance and a wide architectural color palette

**02**

Optimized acoustic and thermal insulation

**03**

Quick installation and self-cleaning design

**04**

Mechanical durability increased by at least 50%

**355W-530W**

# PROJECT REFERENCE

With a global perspective, AESOLAR delivers customized energy solutions through clean electricity generation. Driven by innovation in renewable energy, we actively contribute to the global energy transition—bridging regions and cultures with advanced solar technology to foster a low-carbon lifestyle. Backed by extensive international project experience, AESOLAR has successfully developed and supported the construction of thousands of photovoltaic power stations across more than 100 countries, continuously advancing green energy deployment through cross-border collaboration.



**30 MW** Romania  
2025



**1.254 MW** Switzerland  
2025

# EUROPE



**1.34 MW**  
Germany  
2025



**1.022 MW**  
Serbia  
2024



**1 MW**  
Romania  
2024



**1 MW**  
Poland  
2026



**10 MW**  
Germany  
2016



**29.952 MW**

**Philippines**  
2024



**1.25 MW**

**Vietnam**  
2023



**515 KW**

**Thailand**  
2025



**1.2 MW**

**Sri Lanka**  
2025



**20.86 MW**

**China**  
2023



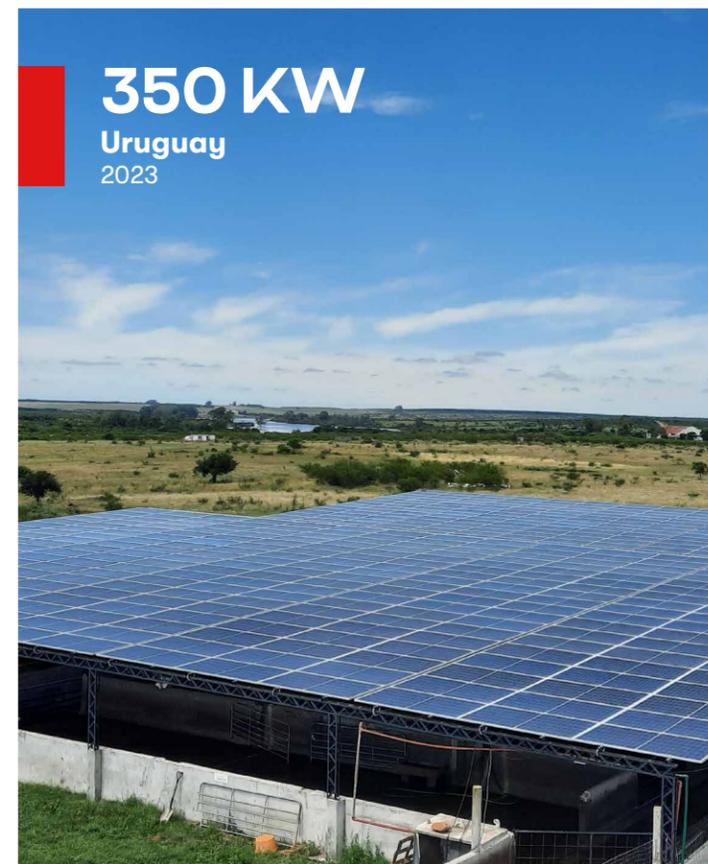
**156 KW**

**Saudi Arabia**  
2019

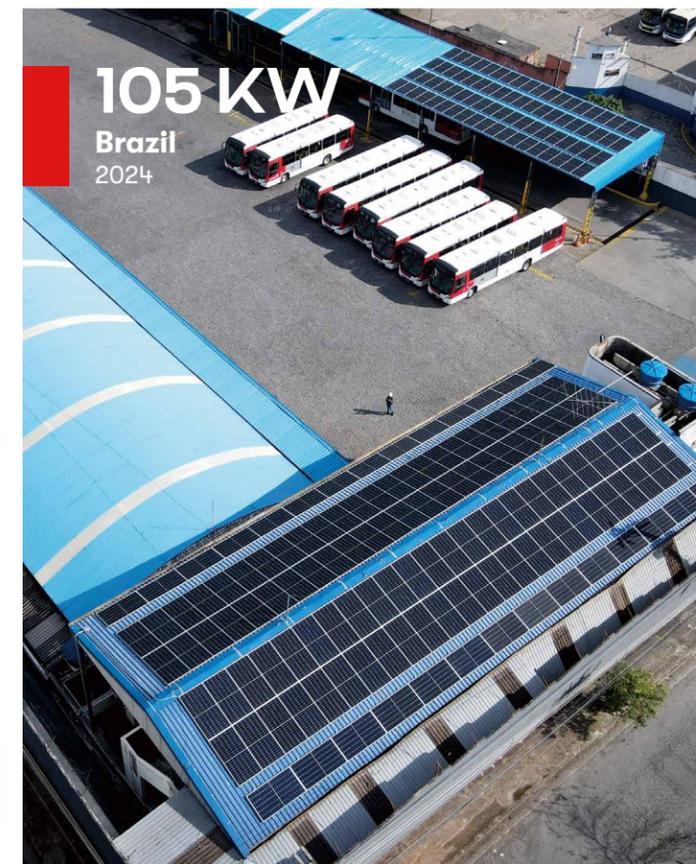
# LATIN AMERICA



**3 MW** Brazil  
2024



**350 KW**  
Uruguay  
2023



**105 KW**  
Brazil  
2024



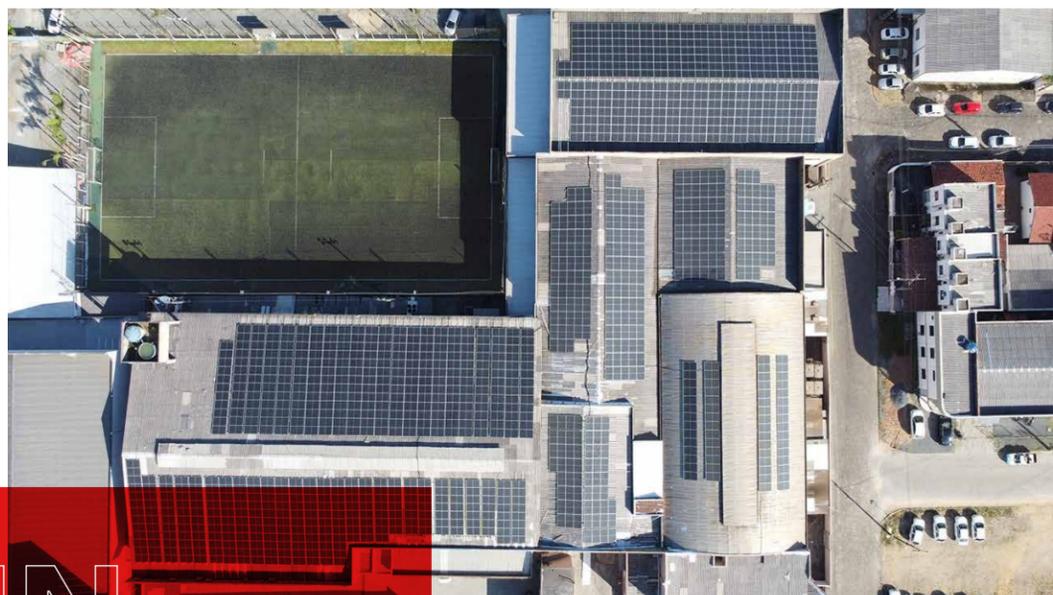
**353 KW**  
Brazil  
2023



**399.3 KW**  
Brazil  
2024



**700 KW**  
Uruguay  
2024



**518 KW** Brazil  
2023



**2 MW**

Egypt



**1.8 MW**

Dominican Republic



**157 KW**

Brazil  
2024



**303.6 KW**

Brazil  
2023

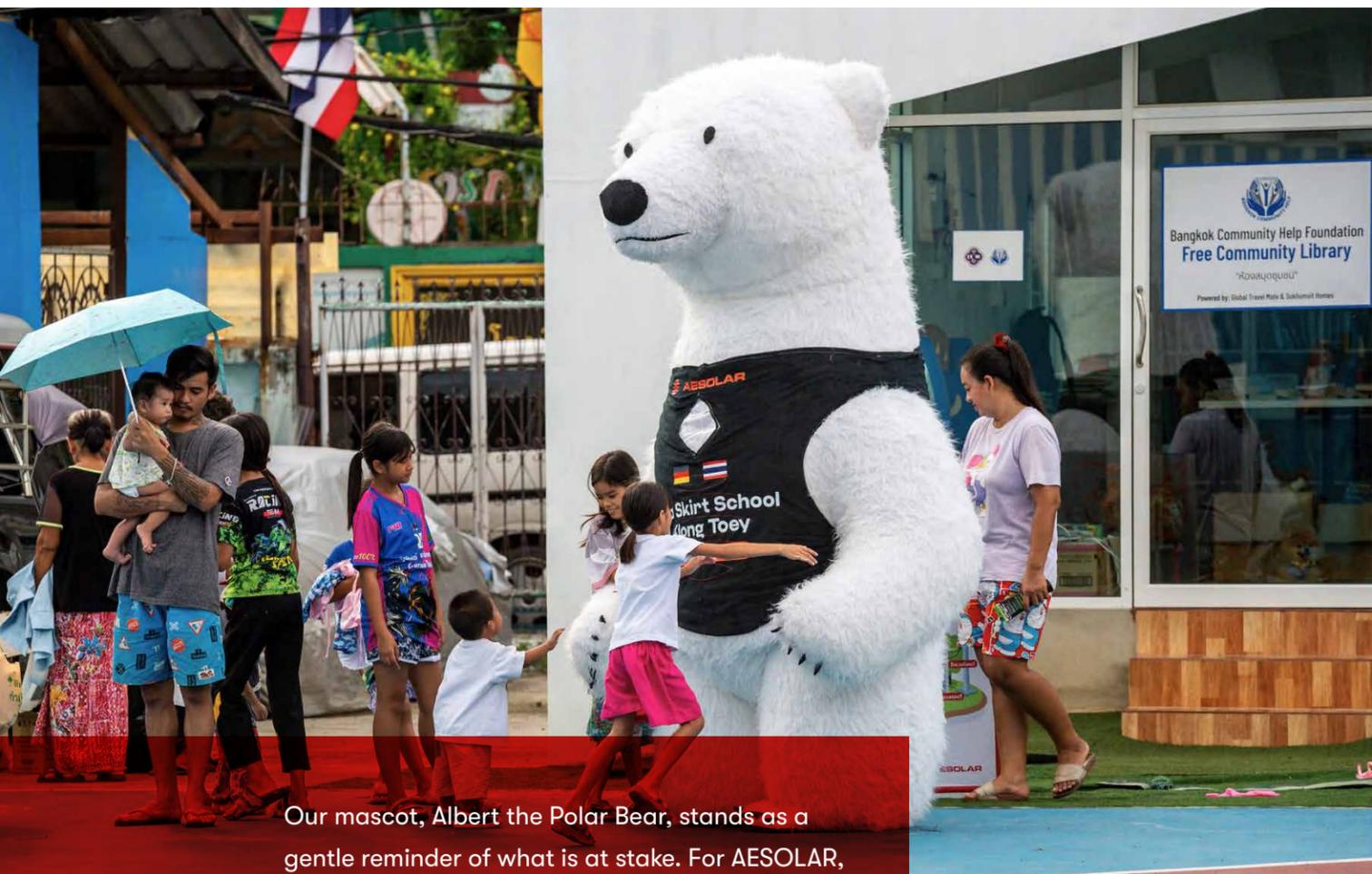


**1.2 MW**

Dominican Republic

LATIN AMERICA

OTHERS



Our mascot, Albert the Polar Bear, stands as a gentle reminder of what is at stake. For AESOLAR, social responsibility and environmental stewardship are inseparable – shaping a cleaner, fairer, and more resilient world for generations to come.



## CSR & ESG

At AESOLAR, sustainability is not an afterthought but the foundation of our mission – it's time to save the world. Our ESG roadmap, released in 2024, commits us to full value chain carbon neutrality by 2050, aligning with global climate goals while driving innovation in low-carbon solar technologies.



Our commitment extends beyond technology to communities around the world. In Brazil, we supported AMAC, an organization protecting women in Rio de Janeiro's favelas, by donating solar modules to lower costs and empower their work in fighting against domestic violence.

In Thailand, we supported the Red Skirt School and the homeless shelter Center of Dreams in Bangkok, supplying renewable energy and educational resources to empower disadvantaged children.

In Vietnam, we installed a solar-plus-storage system for a mountain kindergarten in Hà Giang Province, ensuring reliable electricity for daily learning and living.



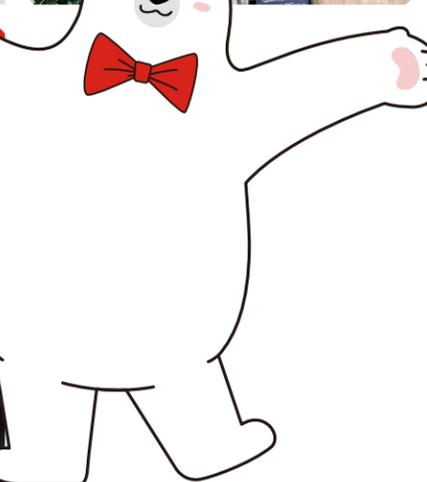


we are a cohesive force driving innovation, reliability, and growth. ↙



MEET OUR TEAM

AM



IT'S TIME TO SAVE THE WORLD.

