

Since 2003

PV MODULE MANUFACTURER

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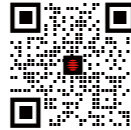
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**IT'S TIME TO SAVE THE WORLD.**

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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

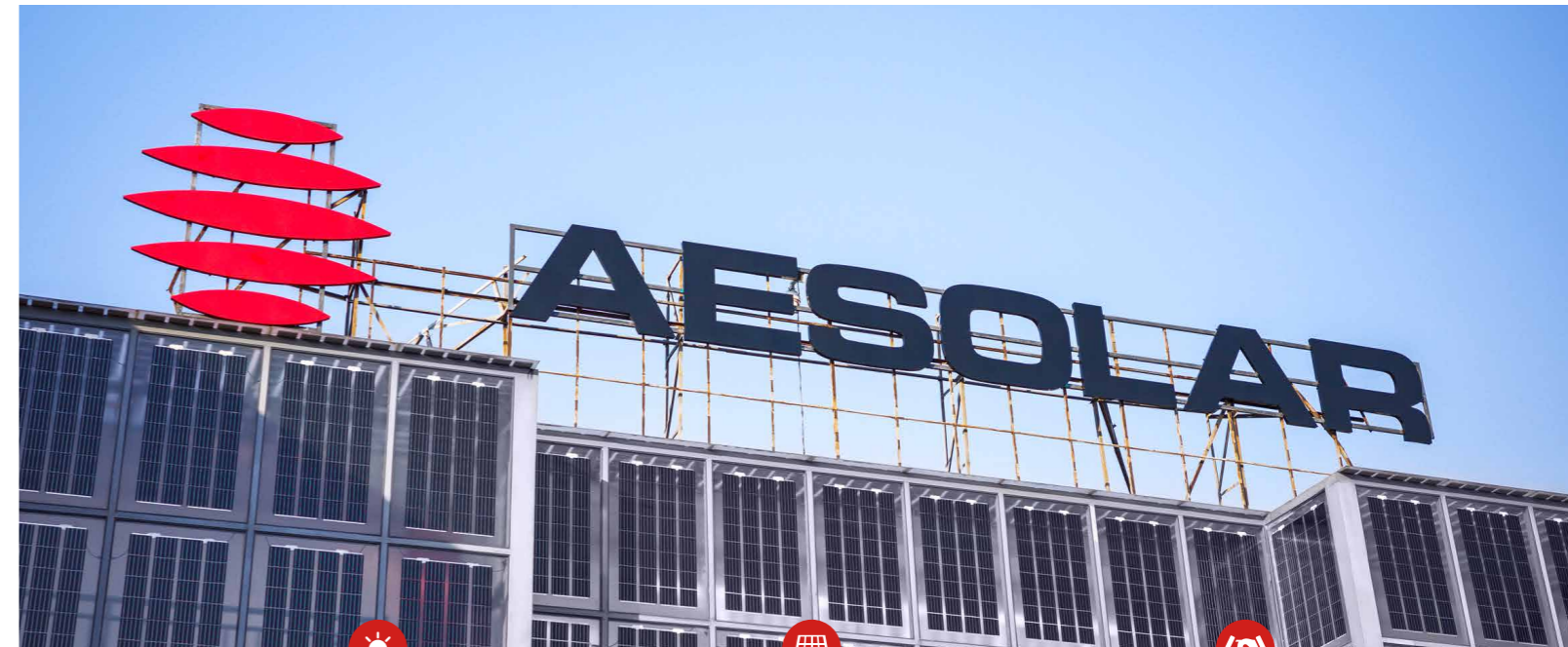
AESOLAR

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.

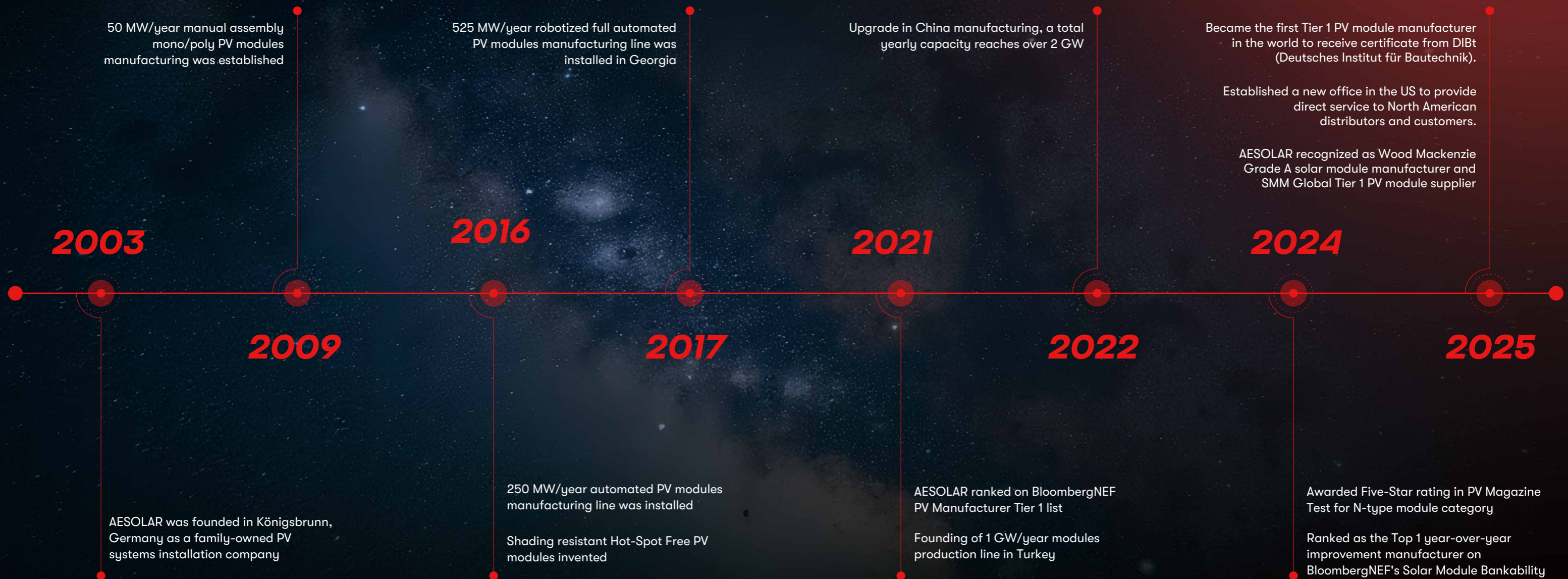


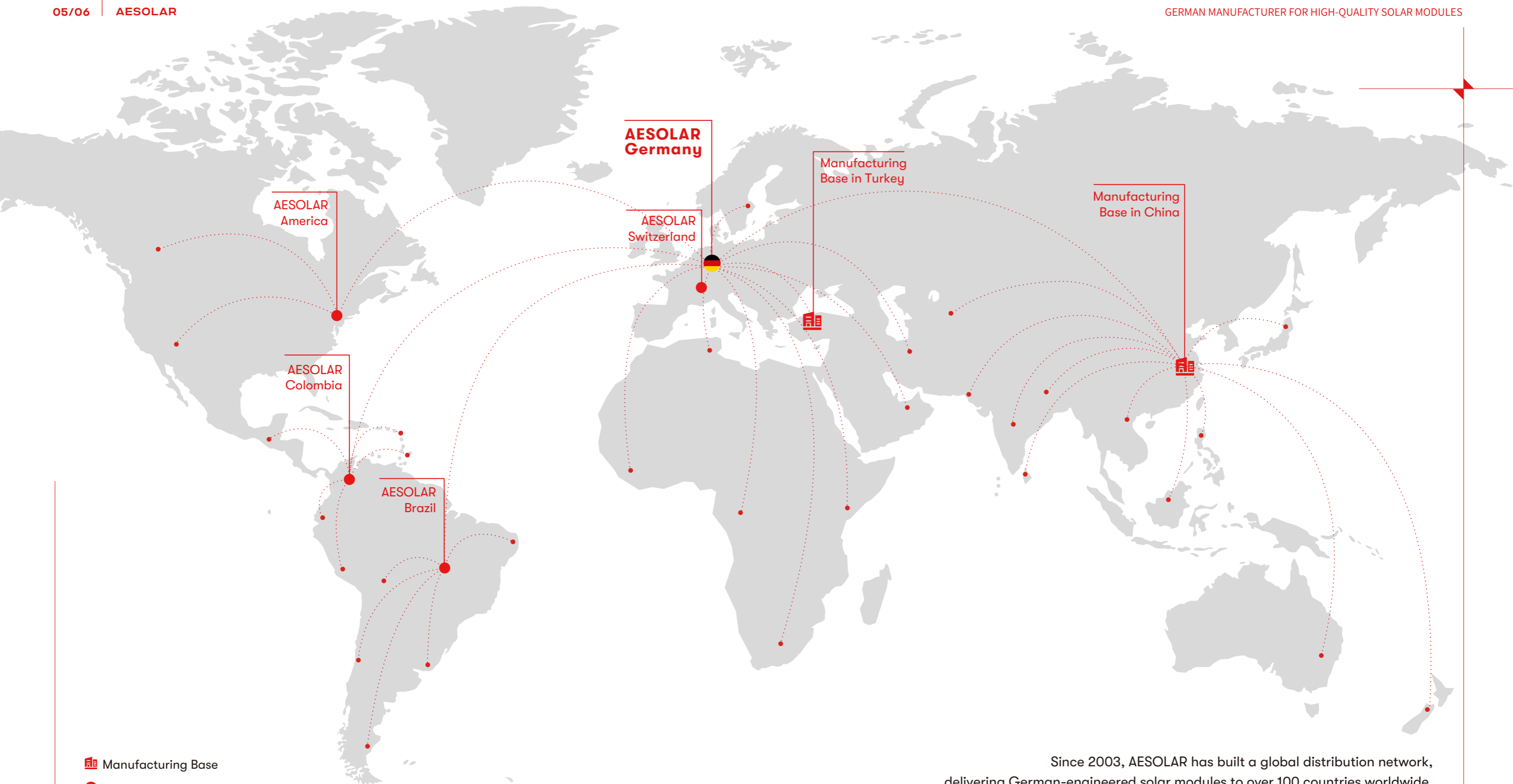
To develop solar energy around the world by top expertise in pv.



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



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

470W-660W



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



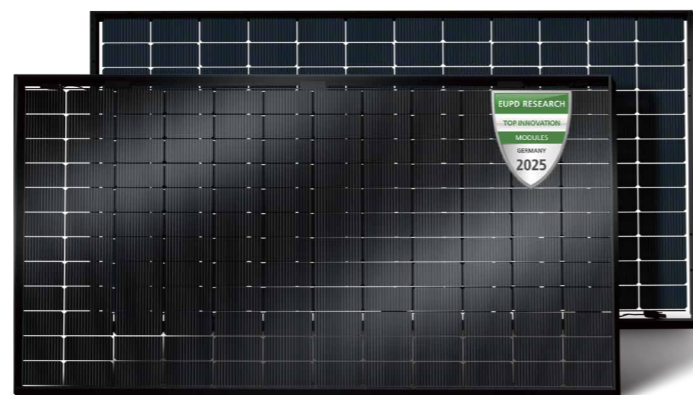



HIGH TRANSPARENCY

⬆️ **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



355W-530W

Customizable Aesthetic PV for Perfect Architectural Integration

01

Multiple levels of light transmittance and a wide architectural color palette

03

Quick installation and self-cleaning design

02

Optimized acoustic and thermal insulation

04

Mechanical durability increased by at least 50%

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



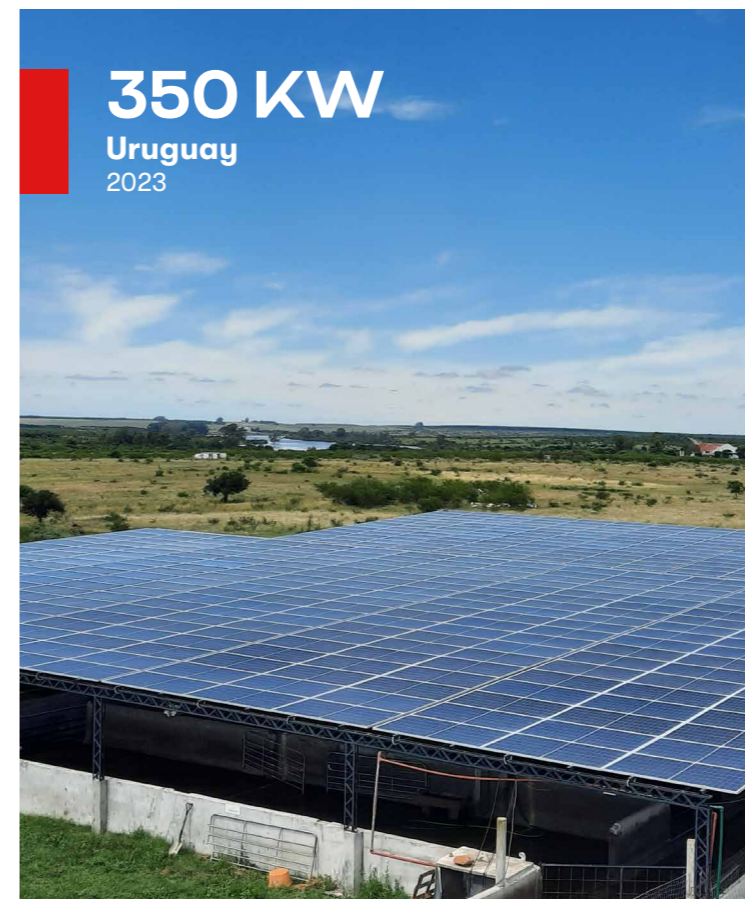
156 KW

Saudi Arabia
2019

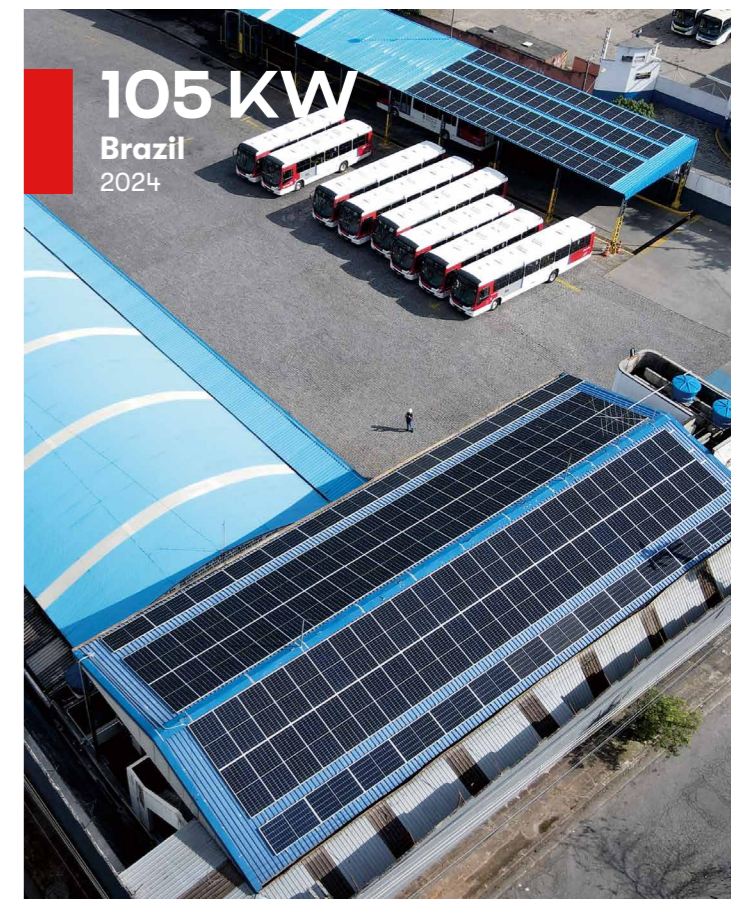
LATIN AMERICA



3 MW Brazil
2024



350 KW
Uruguay
2023



105 KW
Brazil
2024



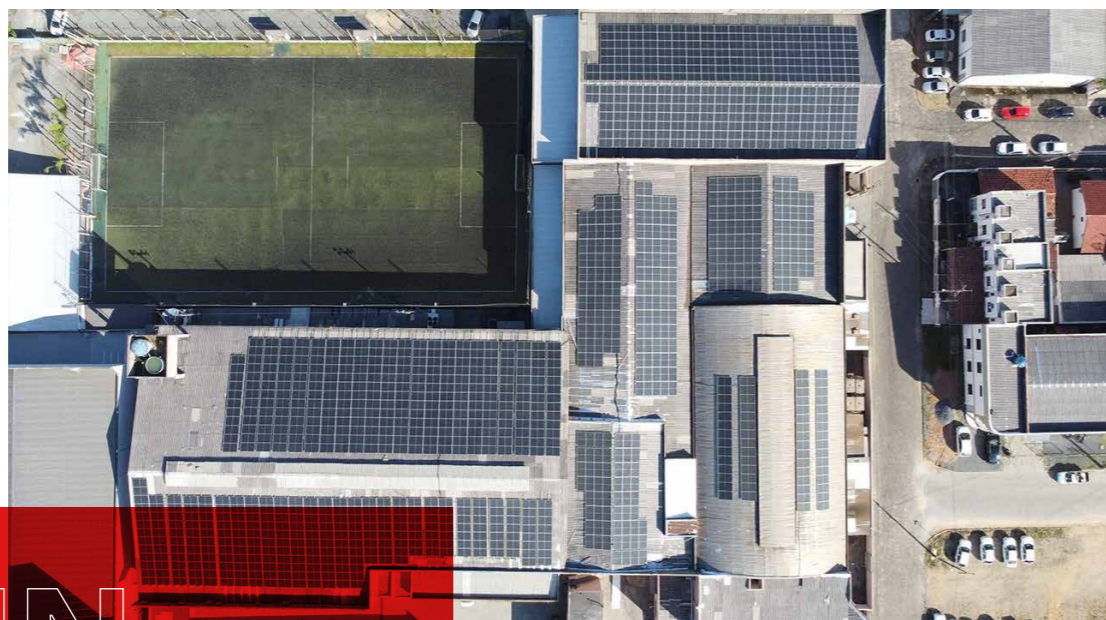
353 KW
Brazil
2023



399.3 KW
Brazil
2024



700 KW
Uruguay
2024



518 KW Brazil
2023



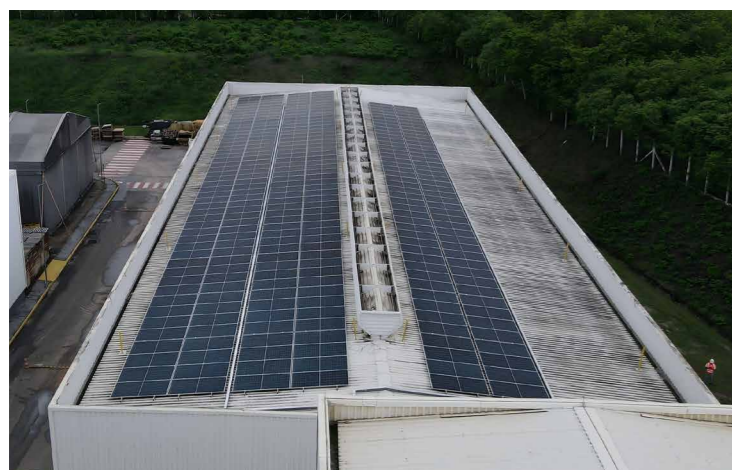
2 MW

Egypt



1.8 MW

Dominican Republic



157 KW

Brazil
2024



303.6 KW

Brazil
2023

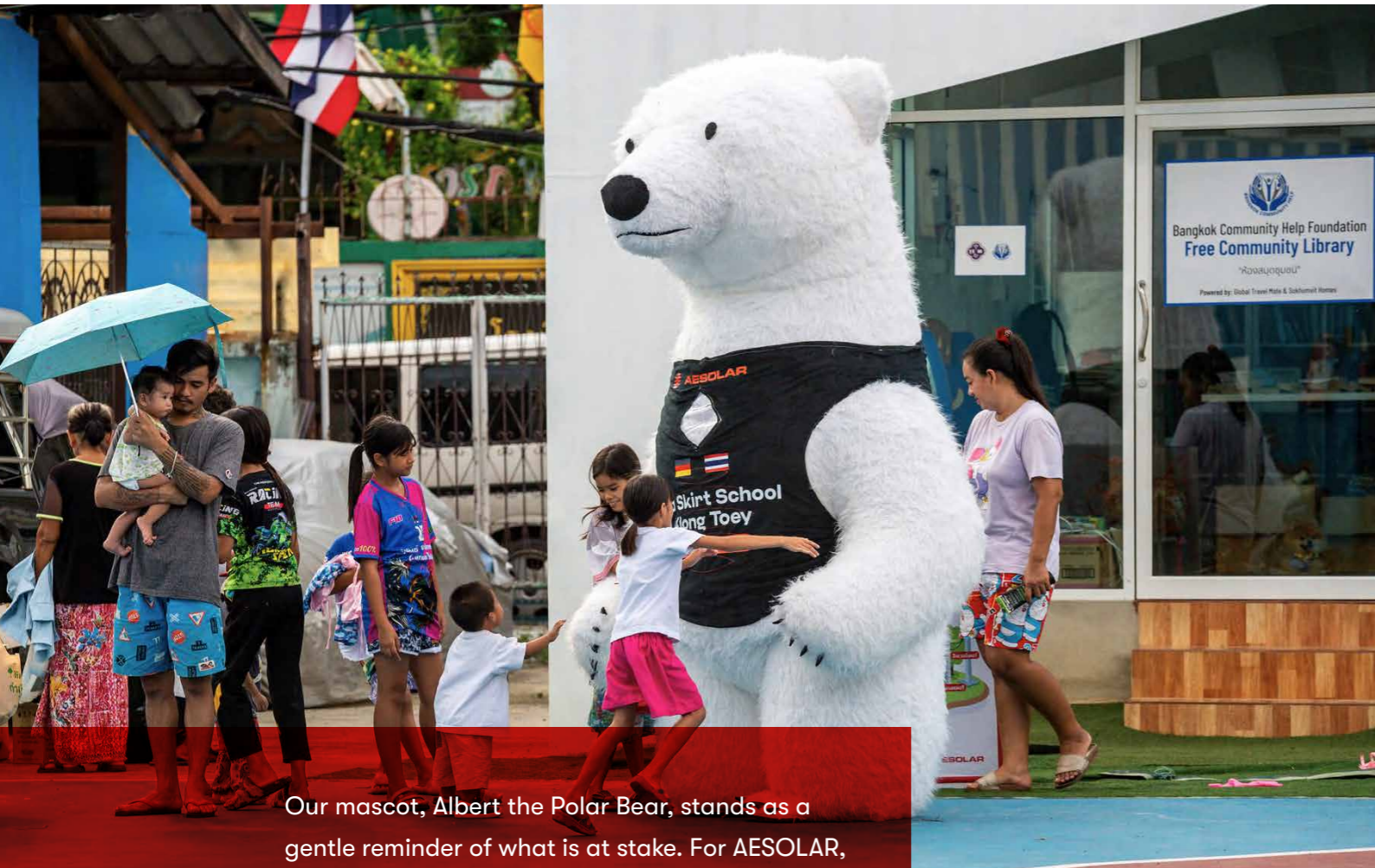


1.2 MW

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.

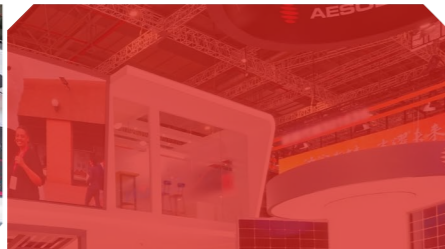
In Thailand, we supported the Red Skirt School and the homeless shelter Center of Dreams in Bangkok, supplying renewable energy and educational resources to empower disadvantaged children.

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.



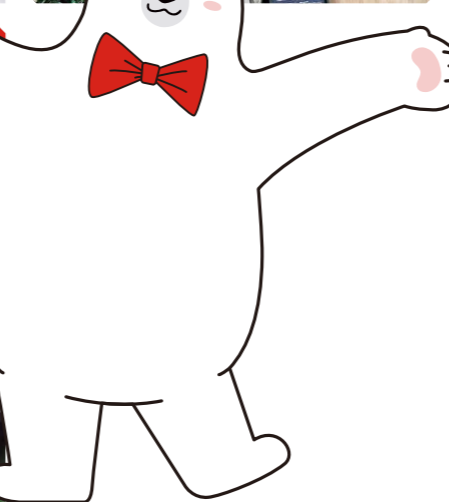


we are a cohesive force driving innovation, reliability, and growth. ↙



MEET OUR TEAM

AM



IT'S TIME TO SAVE THE WORLD.

