

Deutsche
Qualität
Garantiert



It's time to save the world!

GERMAN TIER 1 MANUFACTURER OF HIGH QUALITY PV MODULES

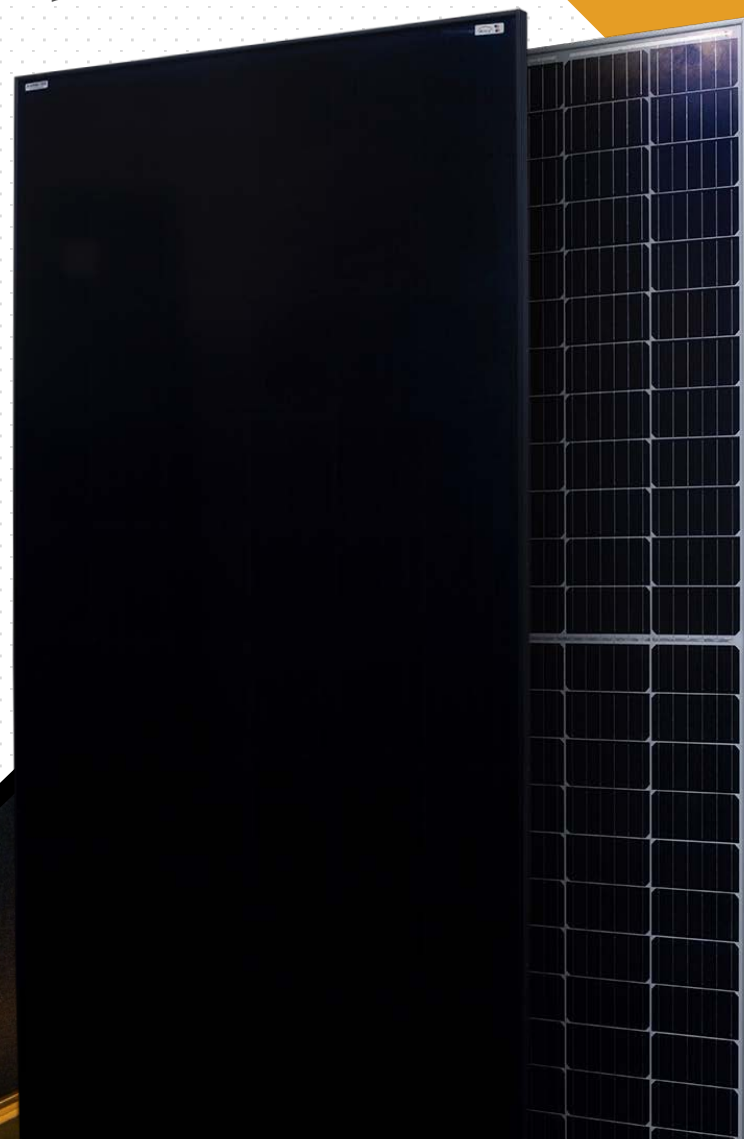
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Alexander Maier
CEO and Founder



Sunny Greetings

AE Solar, The German high-quality PV module TIER1 manufacturer has proven itself to be a dynamic and progressive enterprise, positioning itself as one of the leading privately-owned business since its inception in 2003. As a result of our hard work, we have grown steadily, broaden our portfolio and strengthen our being on international markets, precisely, we operate in more than 90 countries. We have accomplished this through a relentless commitment to quality, through a combination of entrepreneurial spirit, professional excellence and in-depth understanding of the right to the point direction and the proper execution of evaluating, monitoring and maintaining our main goal – to save the world! Our international team simultaneously tries to provide innovative products and solutions in the Solar industry.

We are committed to maximizing the value of our PV modules and to remain a trusted and reliable global energy supplier for the long-term benefit of our customers. We aim to achieve this by working closely with our international partners by using the most responsible and innovative methods of operation. We have just announced the future long-term collaboration with Green Energy Venture, Switzerland, an advisory and services firm, that operates along the value chain of renewable energies since 2016 and KACO new energy, a subsidiary of Siemens AG, Germany and one of the world's largest manufacturers of inverters for grid-feed solar power. Therefore, we promise you the full-service package and the greater contribution to our future projects.

It's time to save the world!

Chronicle

2003

AE Solar was founded in Königsbrunn, Germany as a family-owned PV systems installation company.



50MW/year manual assembly mono/poly PV modules manufacturing was established.

2009

2012

Double glass and Bi-Facial PV modules manufacturing started.



150 MW/year semi-automated PV modules manufacturing line was installed.

2013

2014

Automated PV modules stringer soldering was implemented.



250 MW/year automated PV modules manufacturing line was installed.

2016

2016

Shading Resistant Hot-spot free PV modules invented.





SNEC 2017 PV Power Expo
Top 10 Highlights award.

2017

2017

Shading Resistant Hot-spot free PV modules
serial manufacturing started



525 MW/year robotized full automated PV modules
manufacturing line was installed

2017

2018

PV magazine 2018 Top innovation award



Inter Solar 2019 Photovoltaics award finalist

2019

2019

1 GW/year PV modules manufacturing total capacity reached with 500 MW/year second
fully automated and the biggest in Europe under one roof manufacturing established.



AE Solar became member of
United Nations Global Compact

2019

2020

AE Solar presence and distributorship network
reached more than 70 countries.



New 1GW Factory in Kayseri, Turkey.
AE Solar global sales reached more than 90 countries worldwide

2021

Vision

“A superior eco-friendly, riskless clean approach and safe source of energy across the globe”

Mission

“To Develop solar energy around the world by top expertise in PV.

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

Pioneering in innovative solutions for the whole solar industry”

Core brand values: Stability, Durability, Reliability





Stability

Since 2003 AE Solar provides superior services to the clients and we are proud that in 2019 we have reached more than 3200 successful installations and commissioning of solar projects. We are convinced that providing world-class, outstanding, efficient, professional services and exceptional quality products are crucial to enhance customer satisfaction and loyalty, that is very important to strengthen the relationships, customers and attract new ones.

Durability

AE Solar TIER1 company commits to providing only the best quality for customers. Therefore, 100% testing ratio for visual inspection, EL testing, pressure testing, mechanical load testing and age testing ensure that AE Solar photovoltaic modules operate safely and smoothly for at least 30 years with the product warranty of 12 years. Hence, guaranteeing a strong and stable return on investment for investors.



PID
RESISTANT



SALT CORROSION
RESISTANT



SAND
RESISTANT



AMMONIA
RESISTANT



HIGHLY STABLE
AND TOUGH



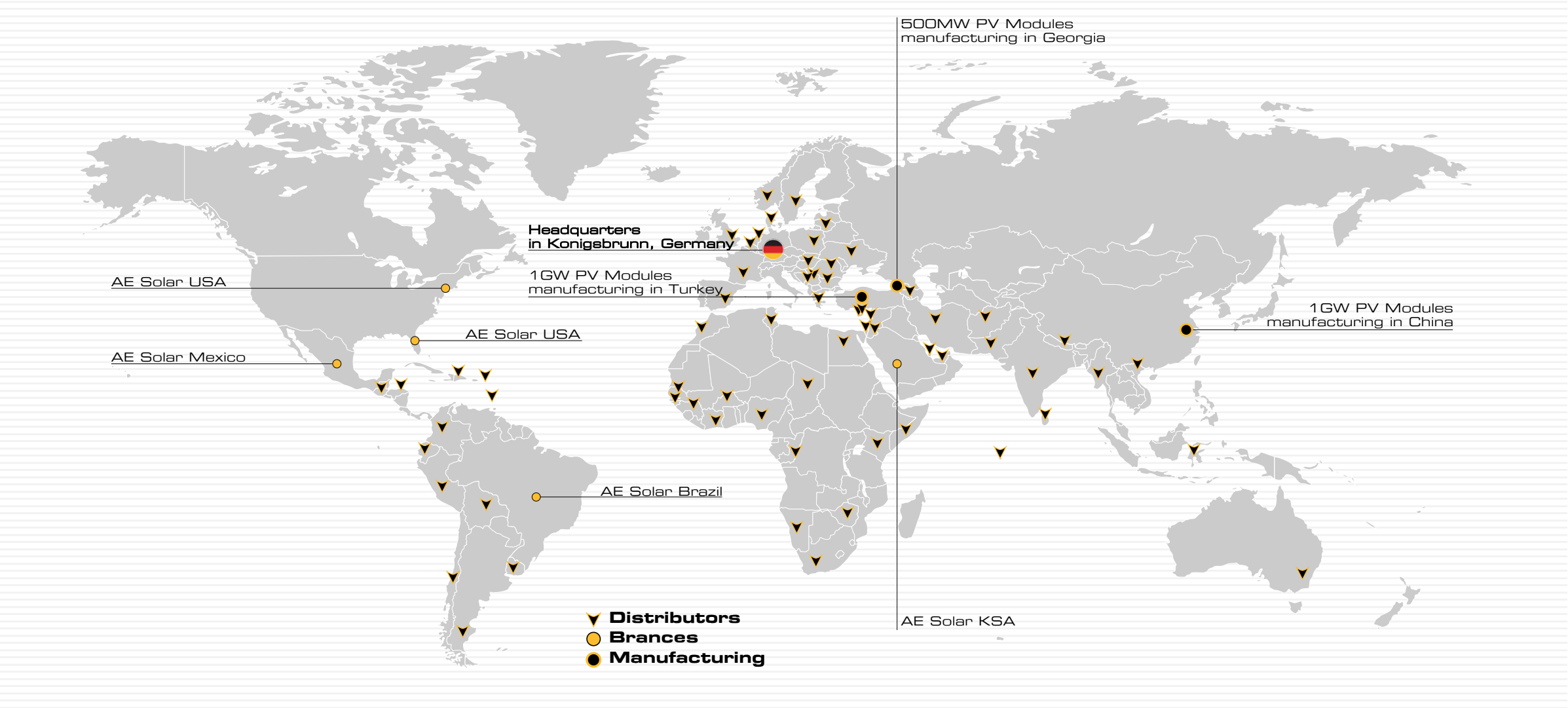
Reliability

The best way to verify photovoltaic modules reliability is to observe its performance in a power plant. Modules must be able to withstand any external environmental factors and resist all types of natural stresses as they ultimately affect the power plant's performance and investment IRR. We put a selection of PV modules through extreme environmental testing to ensure reliability and superior performance in even the world's most unforgiving conditions.

AE Solar is qualified by several international certification authorities.



Business map



Factories

Fully automated PV modules manufacturing, China.

Capacity

1GW
Per year

Total area

45000
m²

Production lines area

22000
m²



Factories

Fully automated PV modules manufacturing in Georgia, Europe.

Access by land to Europe and Asia.

Located near Poti Black Sea port.

Preferences in trade with EU, USA, India and others

Capacity

500_{MW}
Per year

Total area

16000
m²

Production lines area

10000
m²



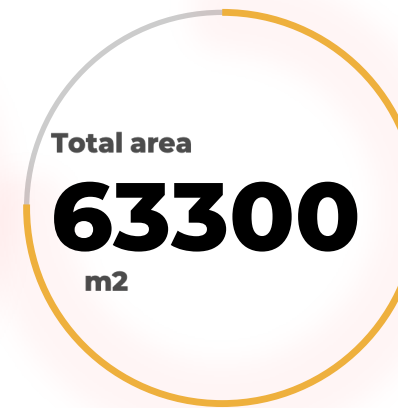
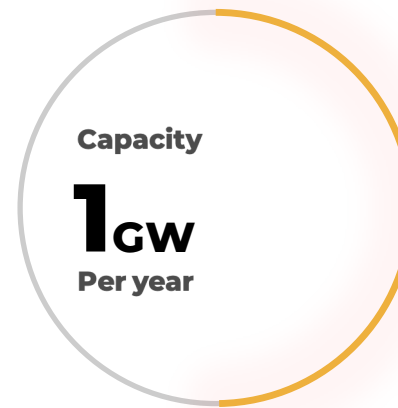
New Factory

AE Solar is already one of the leading brands in the renewable energy industry, providing high-quality new energy products and services since 2003. Renewables and especially photovoltaics is a very competitive industry where constant development is crucial. Our company decided to broaden its field of operation and open another factory in **Kayseri, Turkey**, at the end of April 2021. **Therefore, we have 3 PV modules (solar panels) manufacturing facilities - two operating in Europe (1,5 GW/year) and in Asia over 1GW/year making total inhouse own capacity more than 2,5GW per year.**

The capacity of a new facility will exceed 1 GW at the end of the year. With Georgian factory (500 MW) it will be the biggest solar modules manufacturing outside of China with a total of 1.5 GW capacity.

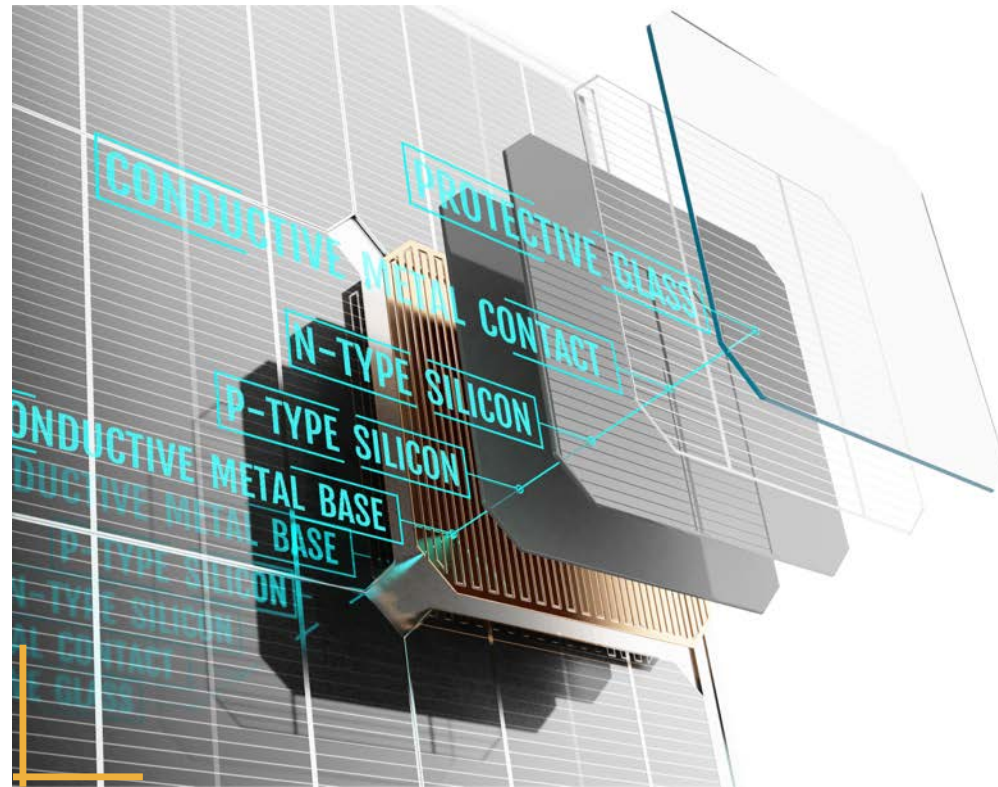
A new factory allows AE Solar to broaden its distributorship network and presence that already exceeds 90 countries around the globe. The company will continue its expansion drive with Turkey and USA as well as Europe, South America, the Middle East and North Africa.

AE Solar's new factory will produce Solar Modules with 166 mm, 182 mm and 210 mm solar cells and will be fully automated to produce 5BB to 12 BB panels.



Superior Materials

AE Solar guarantees high-quality and best performance of photovoltaic modules using only superior raw materials and components from leading suppliers.



FRAME

GLASS

EVA

HIGH EFFICIENCY
PV CELLS

BACKSHEET

JUNCTION BOX



Innovations



Unique
NFC-Chips



Innovative
Opportunity



Zero
Piracy



Cloud
Database

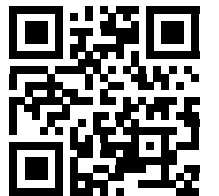
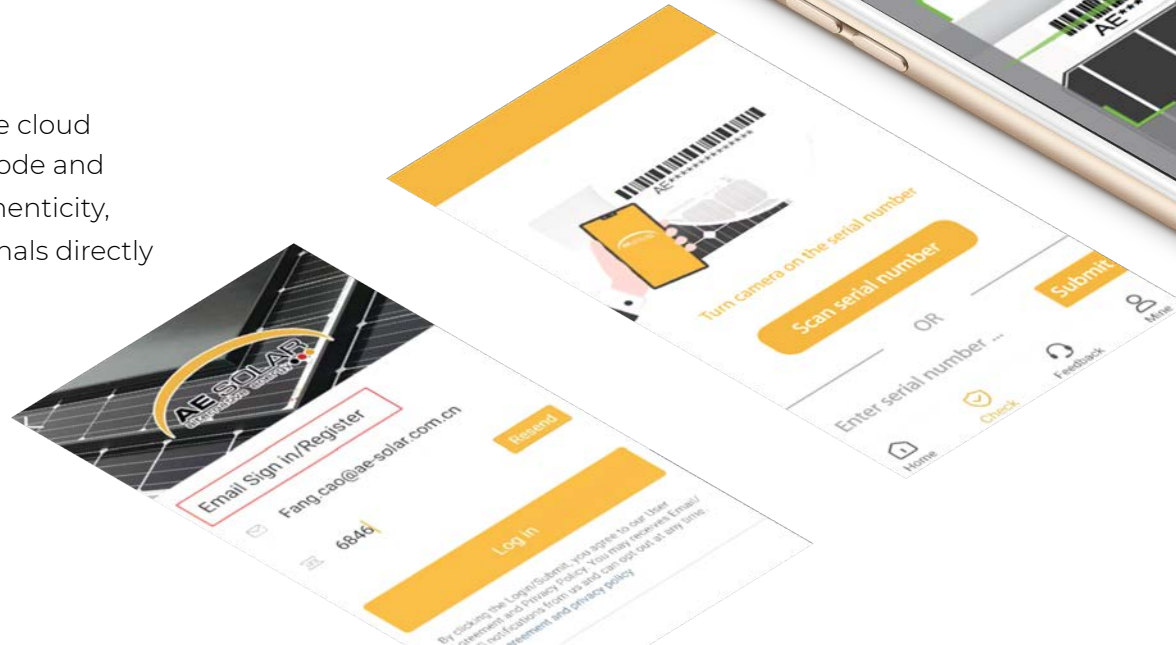


TECHNOLOGY

The very first time in the solar industry NFC-Chips in all of AE Solar panels against piracy!

OVERVIEW

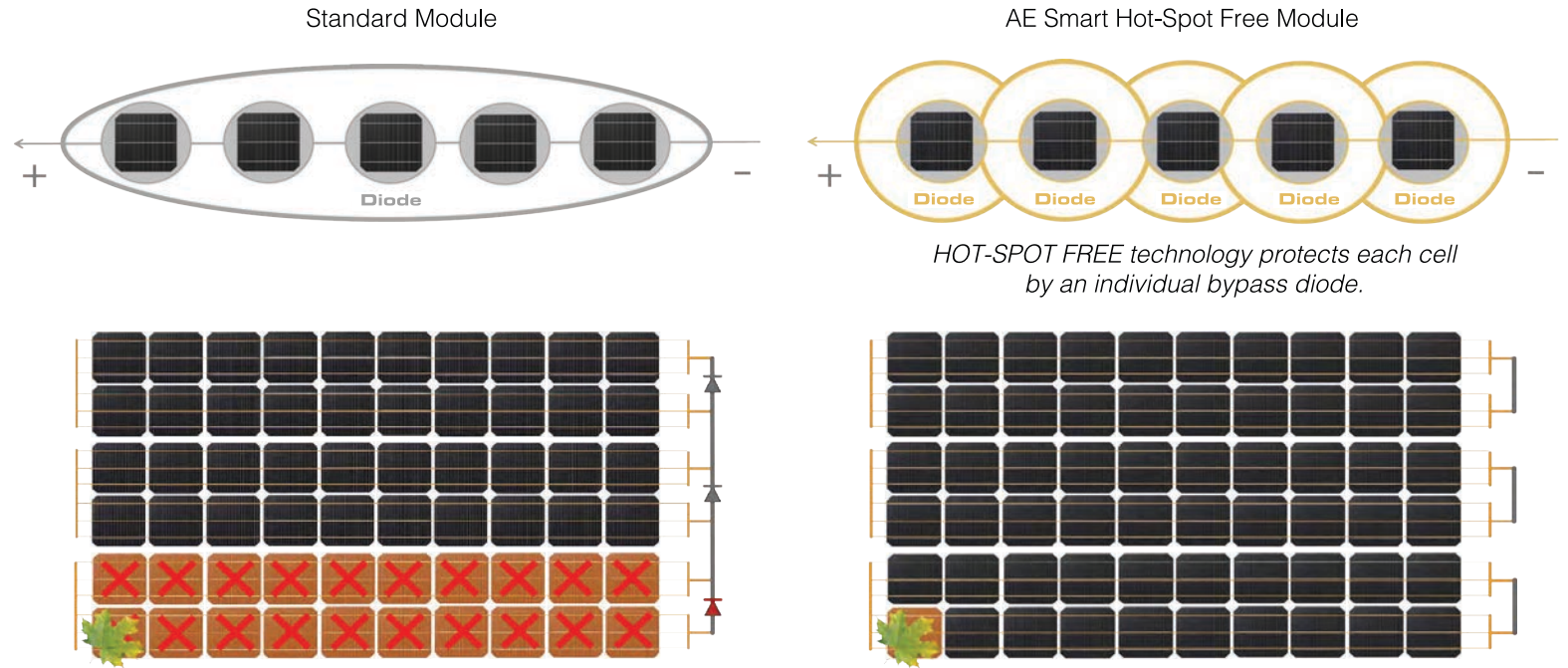
Track the panels, use the cloud database, scan the barcode and ensure the product authenticity, communicate professionals directly through AE Solar APP



Scan for quick download

AE SMART HOT-SPOT FREE

Tested by
Fraunhofer
CSP



In a standard module, the impact of shading on a single cell affects a whole string, while an AE SOLAR SMART MODULE with HOT-SPOT FREE technology loses the output of only one single cell during the shading



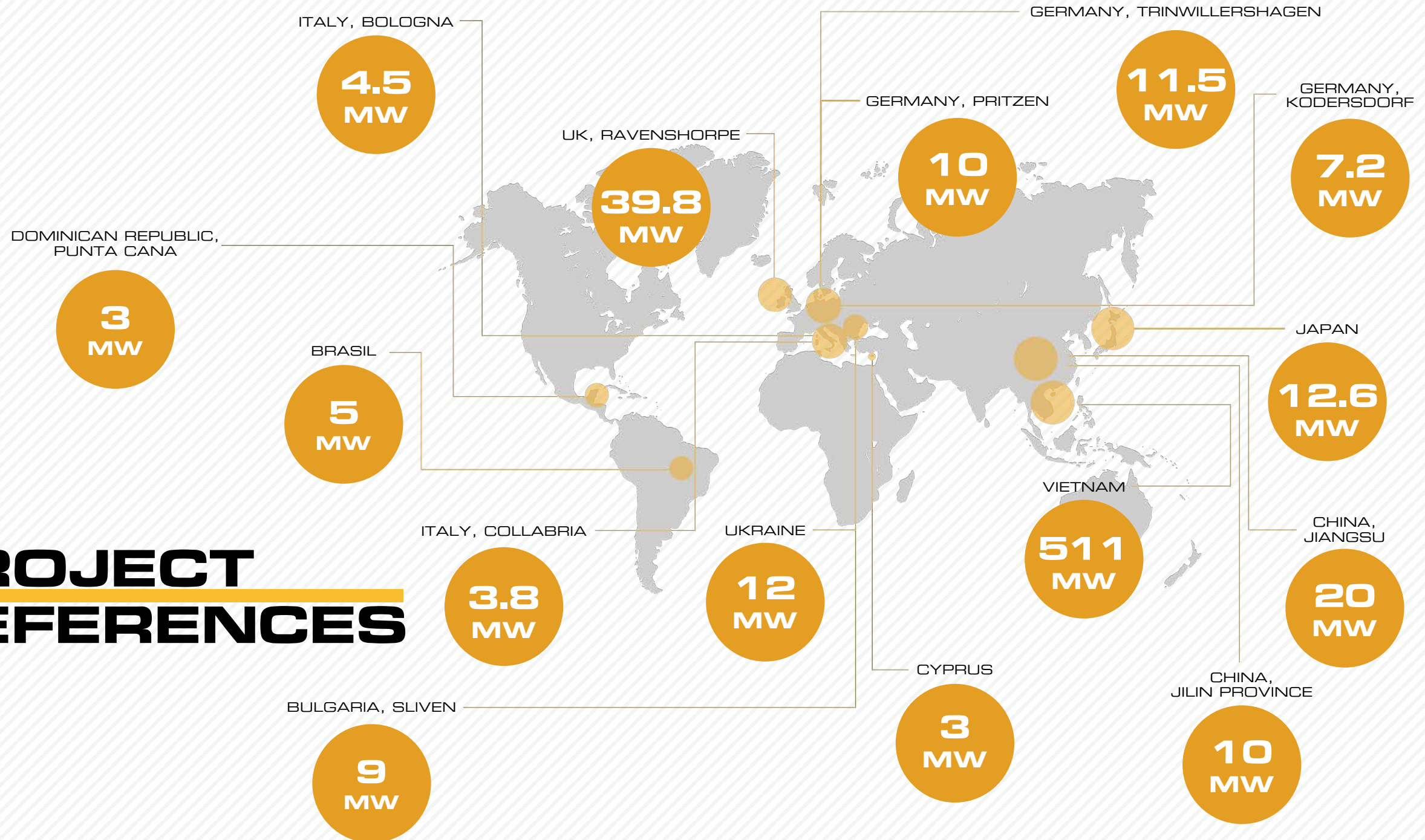
Bringing on the European market high power and highly aesthetically-pleasing PV panels, AE Solar's Eclipse series modules maximize system power and performance.

" The ultra-black series of Eclipse is the latest evolution in our industry-leading aesthetically and efficiently roadmap," says AE Solar Founder and CEO Alexander Maier.

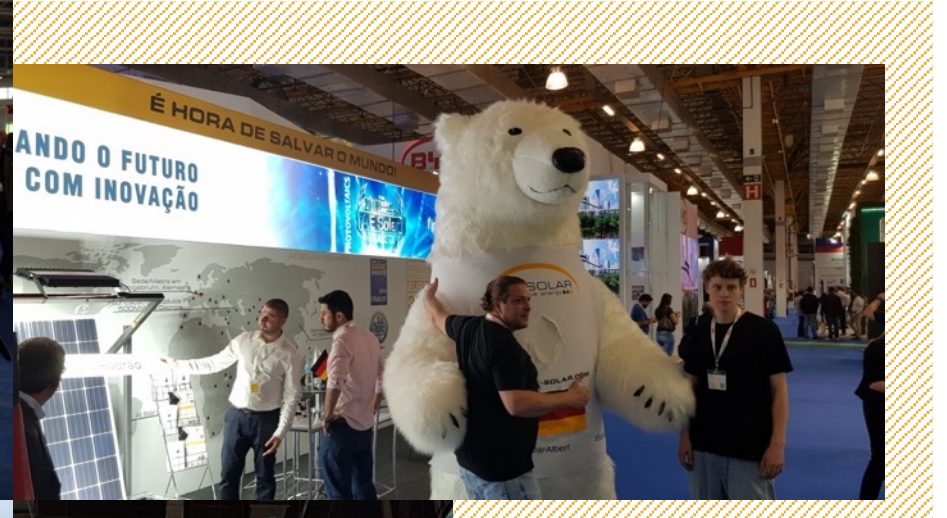
For Elegant Living



PROJECT REFERENCES



CSR and Albert Bear



In order to integrate corporate social responsibility into our daily business, we have committed ourselves to upholding the Ten Principles of the United Nations Global Compact in the areas of human rights, labour, environment and anti-corruption. We challenge our customers, Our suppliers, Ourselves to save the world!

Awards



2021

Top PV brand in Vietnam



2021

Forefront of providing Solar Tech solutions and transforming businesses



2020

Top design 2020



2019

Inter Solar 2019 Photovoltaics award finalist.



2018

PV magazine 2018 Top innovation award.



2017

SNEC 2017 PV Power Expo Top 10 Highlights award.

Thank You !

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