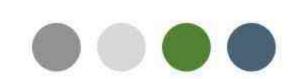


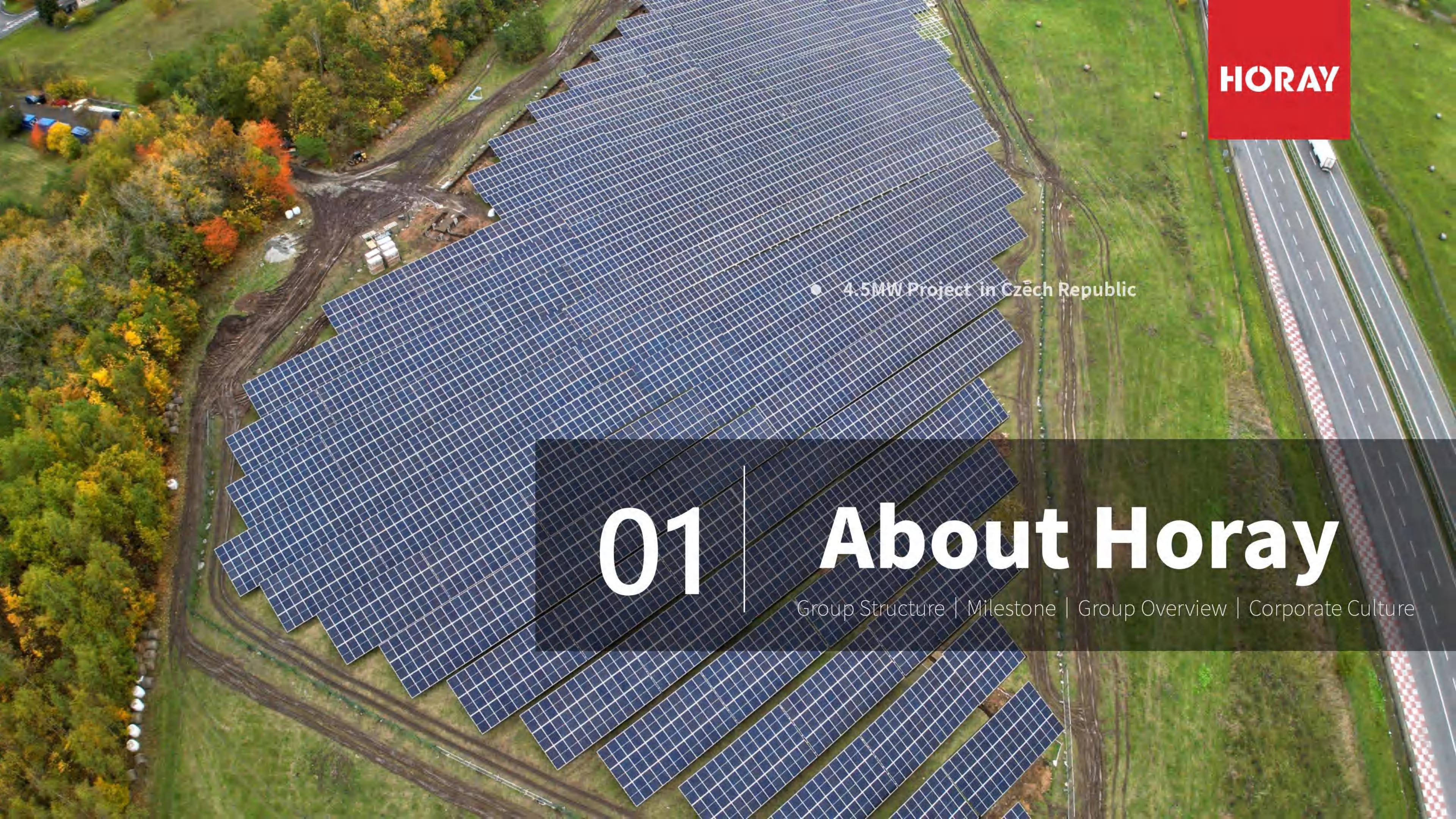


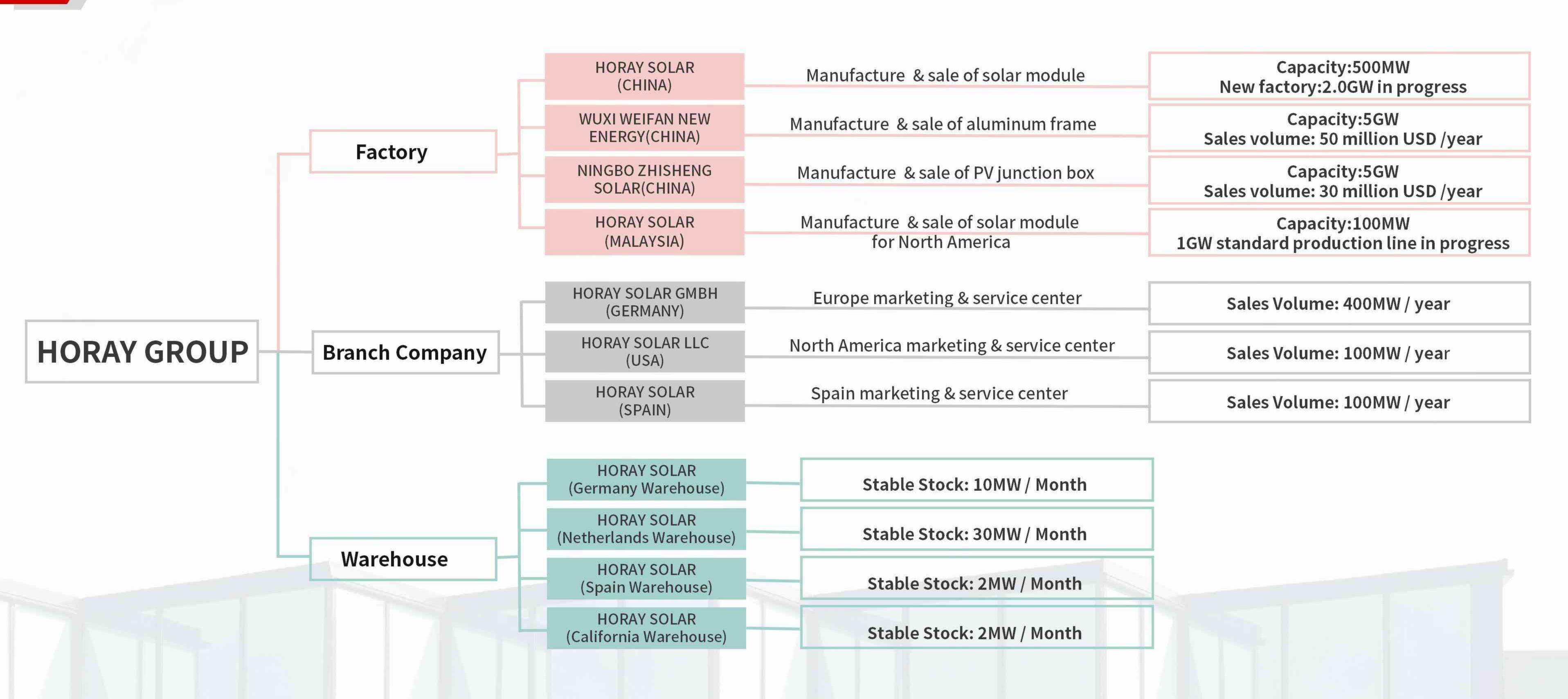
01 About Horay 02

03 Products Introduction Technology

04 Solutions







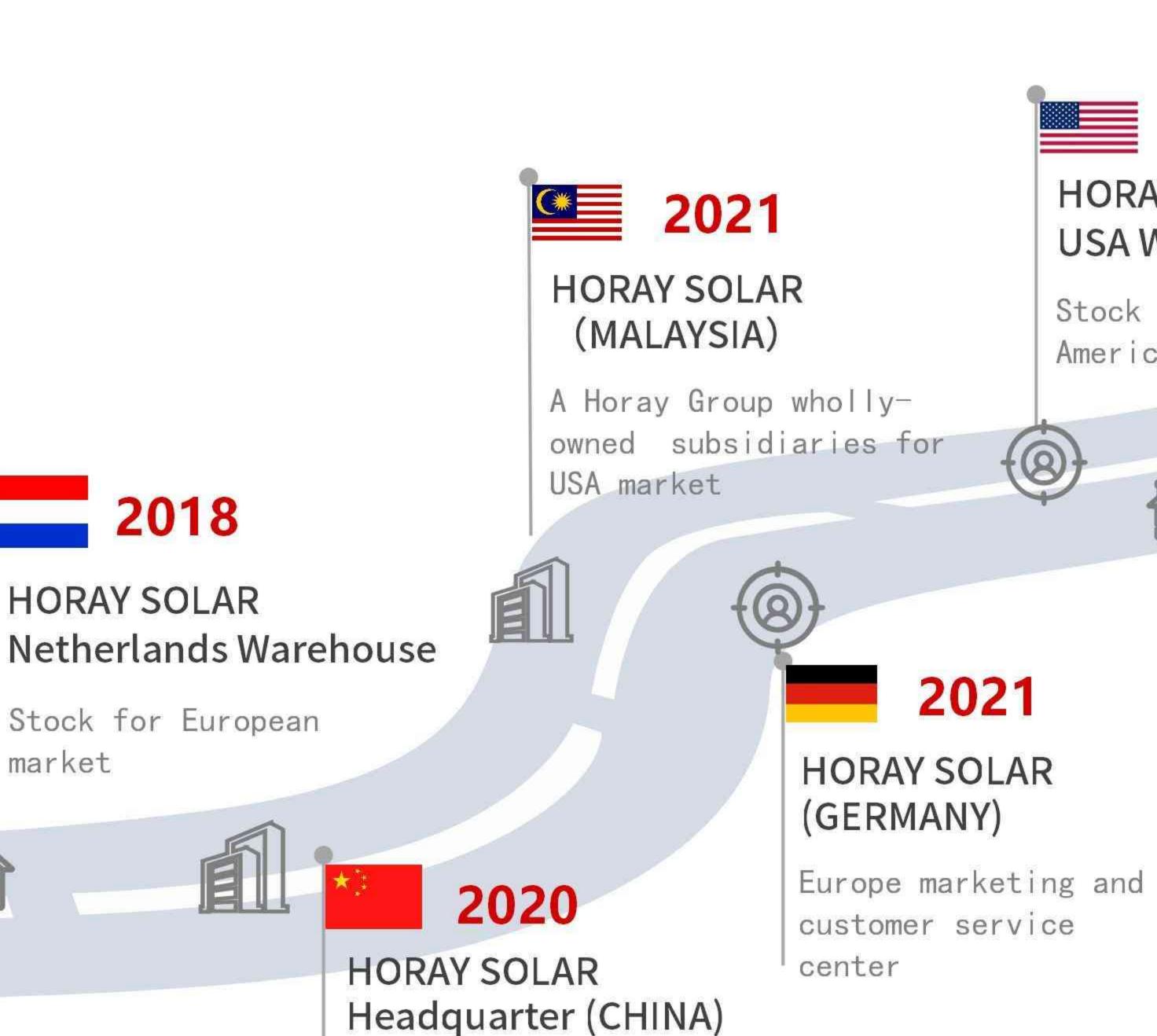
2010

HORAY SOLAR

factory

Founded (CHINA)

Classic solar module



Half-cell solar

module factory

2018

Stock for European

HORAY SOLAR

market

2023 **HORAY SOLAR** Spain Warehouse

Stock for Spanish market

2024 **HORAY SOLAR** New Factory

Production capacity can be 2 GW Total can reach 2.5 GW

2024 HORAY SOLAR **Germany Warehouse**

Stock for Germany market

(0)

2024

HORAY SOLAR (UKRAINE)

Ukraine Marketing Center & Warehouse

2022

HORAY SOLAR (USA)

2022

HORAY SOLAR

Stock for North

American market

2021

HORAY SOLAR

(GERMANY)

USA Warehouse

Serving the North America marketing and customer service center

Horay Solar is an integrated photovoltaic company focusing on the R&D, production and sales of solar modules and solar power system. Our products include standard solar module and customized solar module.

Horay Solar has always been committed to the development of globalization with an eye to the global industrial layout.

With strong technical support, scientific production management and strict quality control, all the products have reached the industry-leading level and have been approved by the international authorized certification.

Horay Group

15 Years16 Bases5In Solar IndustryThroughout The WorldPV Module Production Lines2.5 GW350+CapacityRaw Material FactoriesODM Partners









HORAY SOLAR (New Factory)

The new plant under Horay is already under construction and will be completed officially put into production by the year of 2024.

Newer equipment, greater production capacity, more complete staffing, and better factory environment.

· HORAY SOLAR (CHINA) ·

Horay Solar is an integrated photovoltaic company focusing on the R&D, production and sales of solar modules and solar power system.

Horay Solar has always been committed to the development of globalization with an eye to the global industrial layout.

· HORAY SOLAR (MALAYSIA) ·

A Horay Group wholly-owned subsidiary, especially for North American market.

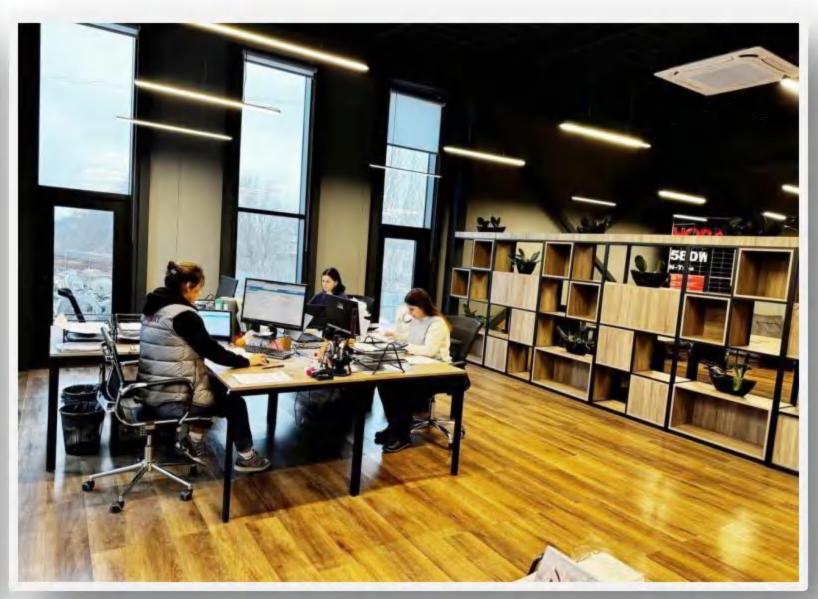
A global leader in sustainable innovation, specializing in reliable low to medium-wattage modules, customized solutions, and OEM services.











· HORAY SOLAR (GERMANY) ·

The Europe marketing and customer service center in Germany.

Manages local warehouse and spot logistics in Rotterdam, offering global services like pre-sales consulting, aftersales support, and EPC installation services.

· HORAY SOLAR LLC (USA) ·

The North America marketing and customer service center in the USA.

To provide services for our customers all over the world, including pre-sales product consulting and after-sales service, EPC installation service and consulting, etc.

· HORAY SOLAR (SPAIN) ·

The Spain marketing and customer service center in Spain.

Offers comprehensive services throughout the Spanish market, encompassing presales product consultation, after-sales support, EPC installation, and consulting.

· HORAY SOLAR (UKRAINE) ·

The Ukraine marketing and customer service center in Ukraine.

Offers comprehensive services throughout the Ukrainian market, encompassing presales product consultation, after-sales support, EPC installation, and consulting.



· NETHERLANDS WAREHOUSE ·

Add: Vlakbodem 3 • Dirksland, Rotterdam,

Netherlands



· SPAIN WAREHOUSE ·

Add: C/ Sierra d'espadá • 4 Pol. Ind. Pla delsOlivars

46460 Silla (Valencia), Spain



· UKRAINE WAREHOUSE ·

Add:Bud. 26, Street Zaporizka, OBoryspilsky District, Kyiv Region, Ukraine



Horay Owned Warehouse

· USA WAREHOUSE ·

Add: 12345 Mills Ave, Chino, CA, USA



· GERMANY WAREHOUSE ·

Add: Horay Warehouse, Robert-Bosch-Straße 27-29, 63225 Langen, Germany





Add: Bud. 26, Street Zaporizka, Boryspilsky District, Kyiv

Region, Ukraine

Business Distribution



So

Solar Module Factory

HORAY SOLAR CO.LTD
Add: No.30-5 East Yanxin Road, Huishan District
Wuxi, Jiangsu, China
Tel:+86 510-8358 0688
E-mail: sales@horaysolar.com



Solar Module Factory

HORAY SOLAR (China)
Add: Jinchang Road, Yanqiao Streets, Huishan District,
Wuxi, Jiangsu, China
E-mail: sales@horaysolar.com



Aluminum Alloy Frame Factory

Wuxi Weifan New Energy Technology Co., LTD Add: No.38 Liming Road, Changan Streets, Huishan District Wuxi, Jiangsu, China E-mail: sales@horaysolar.com



PV Junction Box Factory

Ningbo Zhisheng Solar Technology Co., LTD Add: No.698 Yu'an Road, Zhouxiang Town, Cixi City, Ningbo, Zhejiang, China E-mail: sales@horaysolar.com

Europe

Netherlands

Britain

Slovenia

Ireland

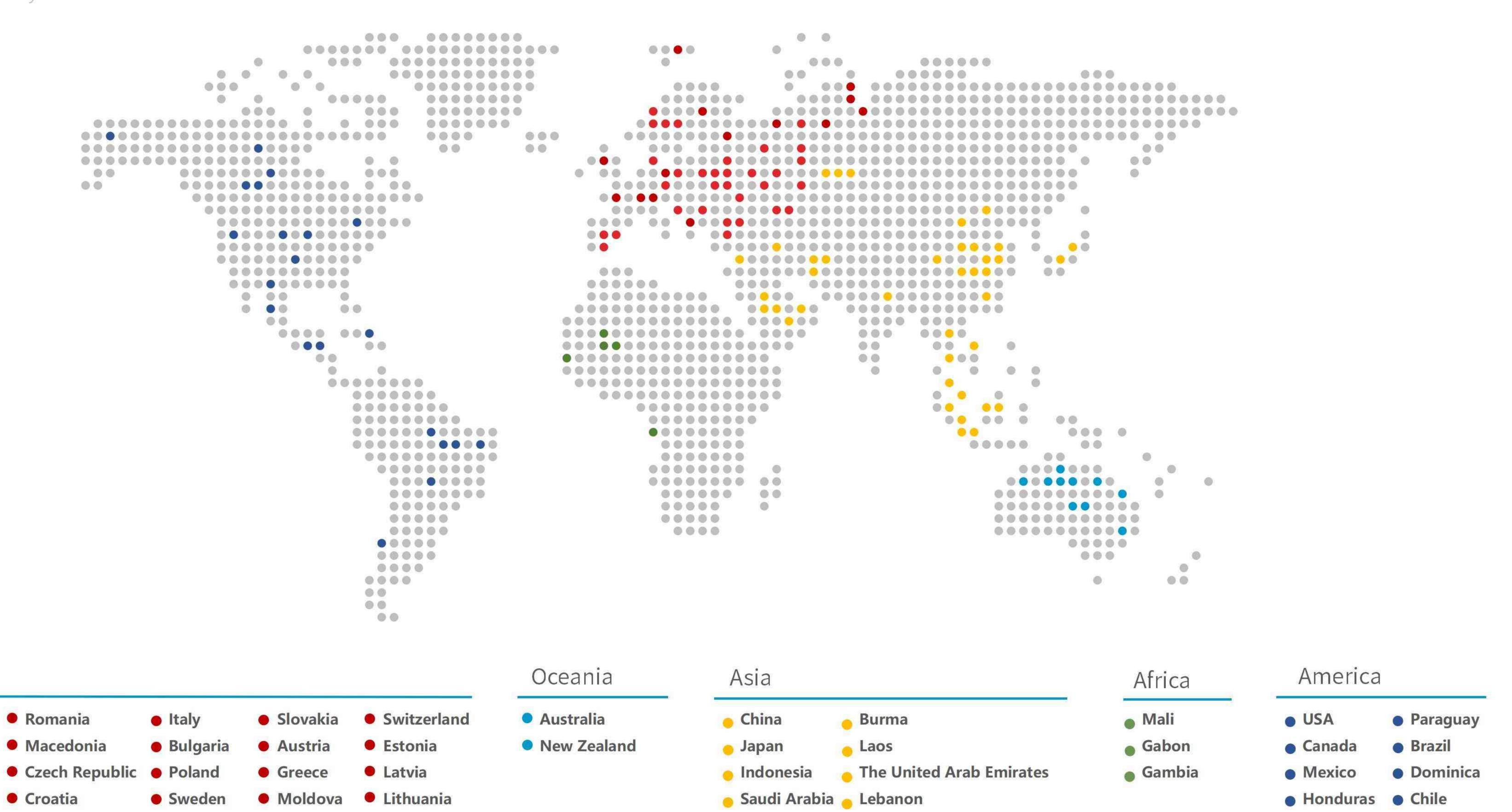
Germany

Belgium

Portugal

Denmark

Spain



Six Advantages

Production Advantage

•Awards: "Provincial-level Intelligent Workshop"

•Expertise: Over 15 years production experience.

•Efficient: Smart workshop ensures productivity.

Product Advantage

•Quality: Top5 global materials.

•Flexibility: Customizable to diverse needs.

•Cost-effective: Competitive price, valuable.

Global Presence

•Locations: 5 factories, 5 marketing centers, 6 warehouses worldwide.

•Efficient Logistics: Prompt DDP delivery.

Talent Advantage

Professional Team: Highly skilled, enough

industry-experience.

•Innovation: Industry-leading products.

•Service: Exclusive customized service.

Project Experience

•Portfolio: Nearly 1,000 global projects.

•Support: Installation, commissioning, and

maintenance services.

Value-added Services

•Assurance: 12/15/30-year product warranty

and 25/30-year power warranty.

•Support: Timely, after-sales services.

•Risk Management: MES and Lloyd's Assurance.



Enterprise Honors

- 2023 Jiangsu Province Intelligent Manufacturing Demonstration Workshop
- 2023 High-Tech Enterprise Certification
- Internationally Recognized Brands to be Cultivated and Developed in Jiangsu Province, 2023-2025
- 2024 Wuxi Engineering Technology Research Center Certification
- 2024 Wuxi Enterprise Technolog Center Certification
- 2024 Capability Maturity Model Manufacturing Certification



2023 Jiangsu Province Intelligent Manufacturing Demonstration Workshop







2023 High-Tech Enterprise Certification



Internationally Recognized Brands to be Cultivated and Developed in Jiangsu Province, 2023-2025





2024 Wuxi Engineering Technology Research Center Certification



2024 Wuxi Enterprise Technology Center Certification



2024 Capability Maturity Model Manufacturing Certification









Hopeful

Horay Solar has been devoted to the global expansion, has a promising future with strong technical support, scientific production management and strict quality control.



Outstanding

Our products have outstanding advantages, including higher output power and harsh environmental adaptability,etc.





Responsible

Undertaking great social responsibility, HoRay Solar determined to become a leading photovoltaic company in pursuit of good quality.





Aspiring

Our colleagues have the greater ambition to produce cleaner and much more efficient solar panel.



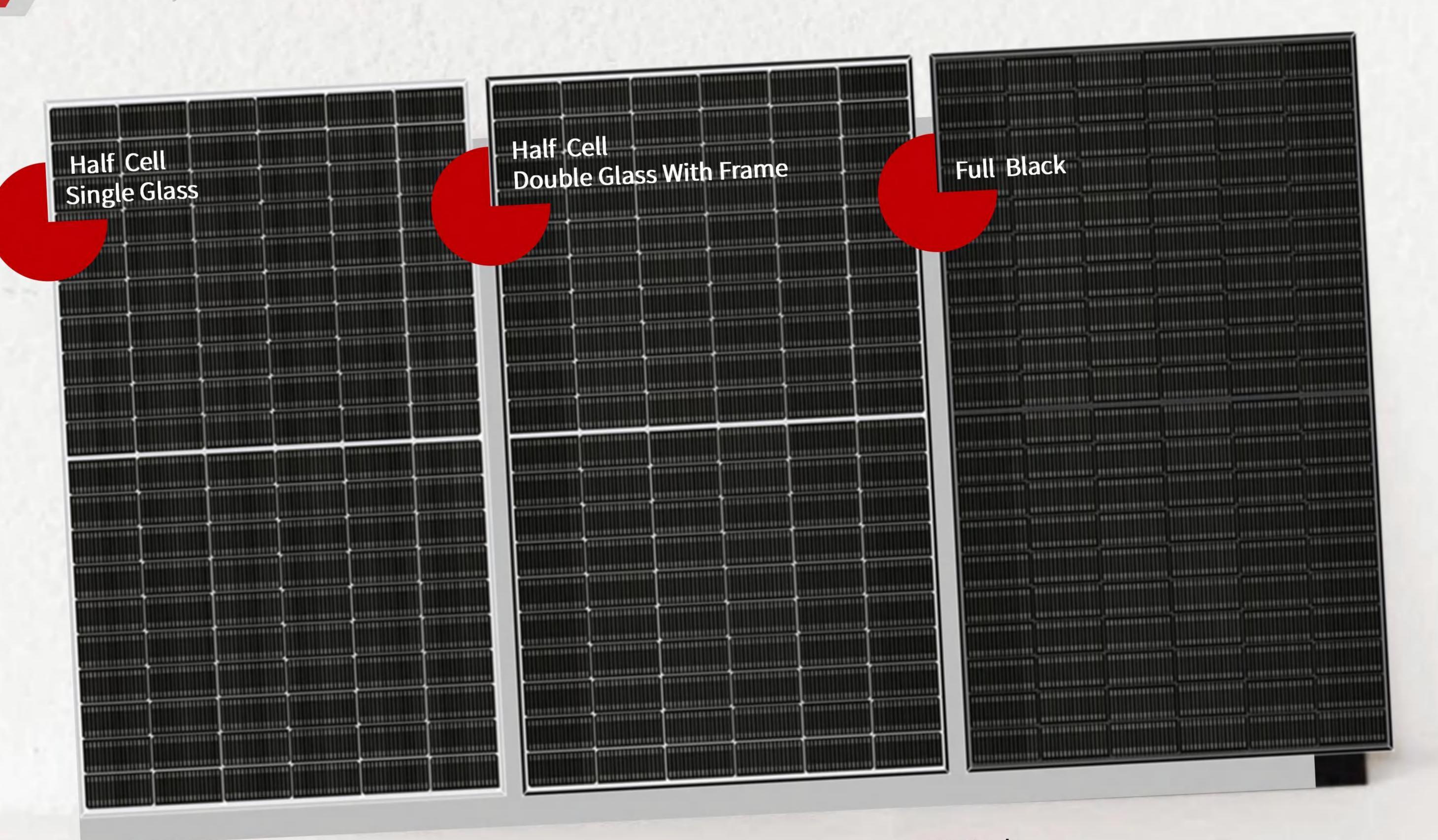


Youthful

Everyone of our team is full of youth and vigour.









MBB/SMBB



HIGHER **OUTPUT POWR**



EFFICIENCY



HALF CELLS - 182mm

SOLAR OCEAN PERC MBB SOLAR MODULES

MONO FACIAL MODULES | MONO BIFACIAL MODULES

POWER: 405W-420W

Cell Amount: 108 half-cells

POWER: 450W-470W

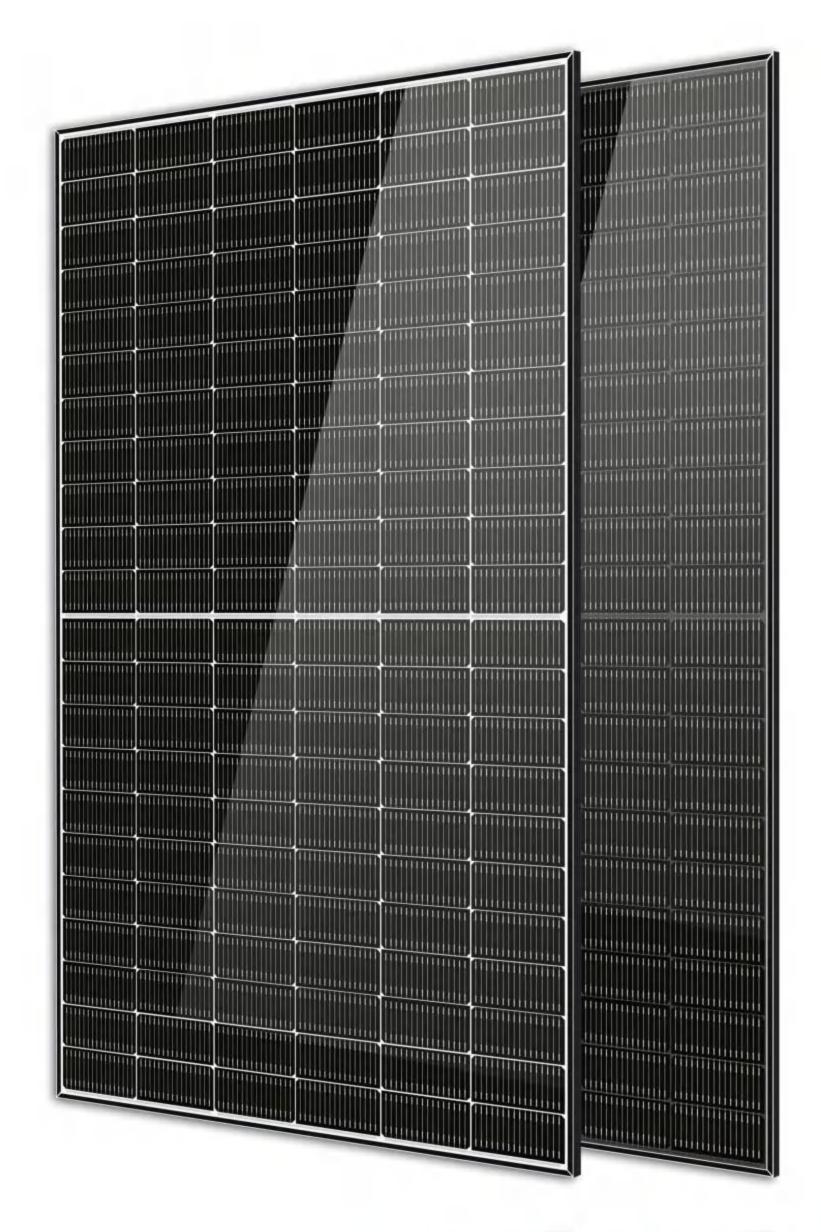
Cell Amount: 120 half-cells

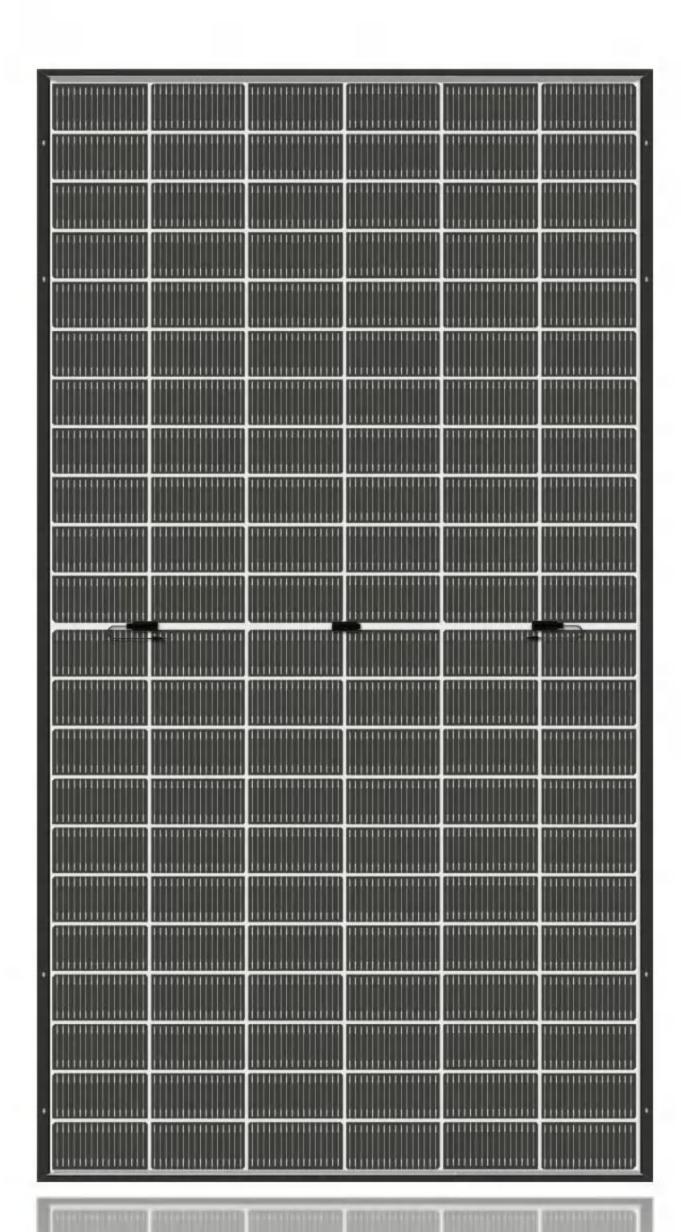
POWER: 495W-515W

Cell Amount: 132 half-cells

POWER: 535W-560W

Cell Amount: 144 half-cells





HALF CELLS - 182mm

SOLAR OCEAN N-Type SMBB SOLAR MODULES

MONO-FACIAL MODULES BIFACIAL MODULES

POWER: 420W-440W

Cell Amount: 108 half-cells

POWER: 470W-490W

Cell Amount: 120 half-cells

POWER: 520W-540W

Cell Amount: 132 half-cells

POWER: 570W-590W

Cell Amount: 144 half-cells



SMBB Cell

- ✓ MBB Cell
 LID Free
 Optimized Temperature Coefficient
 Outstanding Low Light Performance
 Higher Bifacial Gain
 Higher Efficiency & Output Power
 Ultra-high Power Generation
- Lower Attenuation Rate
- Harsh Environmental Adaptability
- Excellent Load CapacityLonger Warranty
- PID Protection

Perc

- SMBB Cell
 MBB Cell
- LID Free
- Optimized Temperature Coefficient
- Outstanding Low Light Performance
- Higher Bifacial Gain
- Higher Efficiency & Output Power
- ✓ Ultra-high Power Generation
- Lower Attenuation Rate
- Harsh Environmental Adaptability
- Excellent Load Capacity
- Longer Warranty
- PID Protection

N-Type





 Compatible with existing packaging, container space, and logistics methods

- Modules designed with arm span, easy installation, and reduced risk of damage.
- Ensures system safety and reliability while aligning with mainstream solar system designs.
- Offers high power per unit area, lower BOS cost, and compatibility with mainstream mounting systems (1p and 2p).

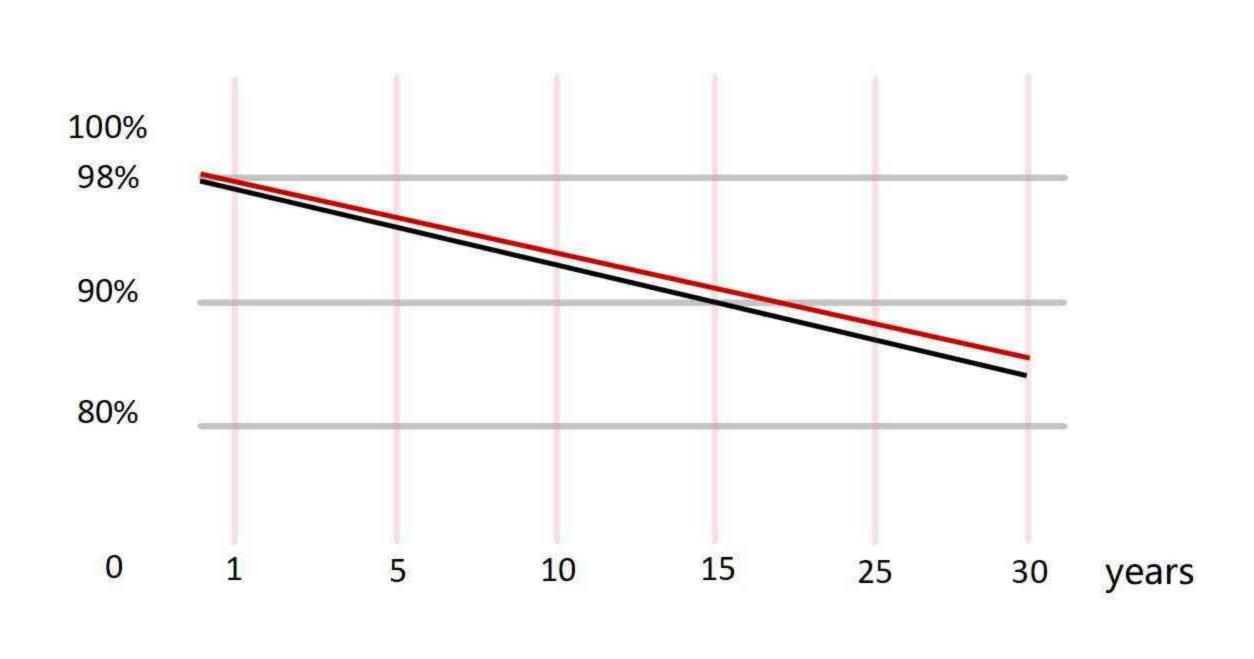
Higher performance under low light environment.

 Ensure the attenuation probability caused by PID phenomenon is minimized.

 Strict salt spray and ammonia corrosion test by the third party. Mechanical load tests including wind load 2400Pa and snow load 5400Pa done by TUV.

Solar Ocean Series Modules





Solar Ocean Perc ModulesSolar Ocean N-Type Modules



HALF CELLS - 210mm

SOLAR GALAXY PERC MBB SOLAR MODULES

MONO FACIAL MODULES | MONO BIFACIAL MODULES

POWER:485W-500W

Cell Amount: 100 half-cells

POWER:535W-550W

Cell Amount: 110 half-cells

POWER:585W-600W

Cell Amount: 120 half-cells

POWER:640W-665W

Cell Amount: 132 half-cells



HALF CELLS - 210mm

SOLAR GALAXY N-Type SMBB SOLAR MODULES

MONO FACIAL MODULES | MONO BIFACIAL MODULES

POWER:510W-535W

Cell Amount: 100 half-cells

POWER:560W-585W

Cell Amount: 110 half-cells

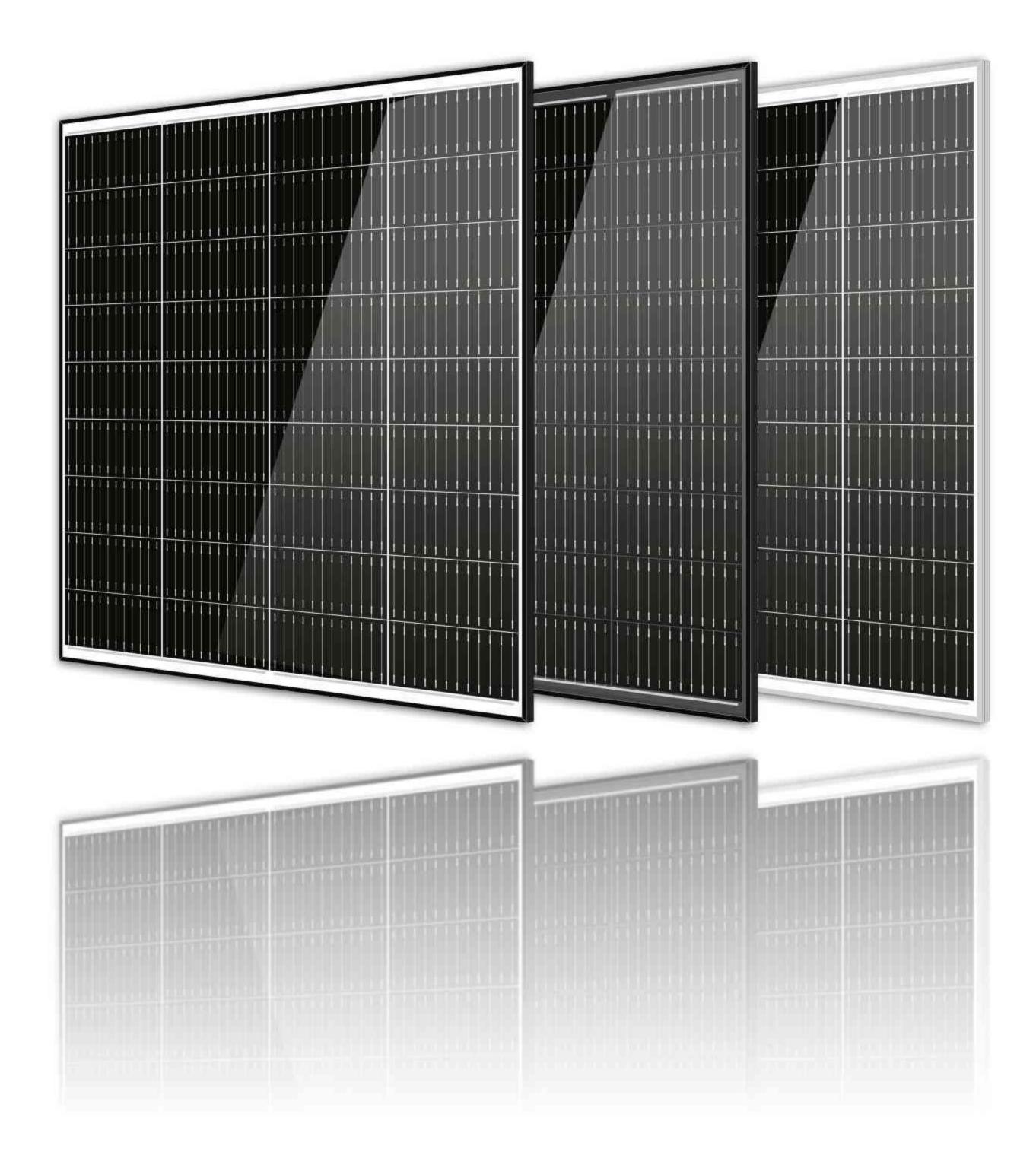
POWER:610W-635W

Cell Amount: 120 half-cells

POWER:685W-710W

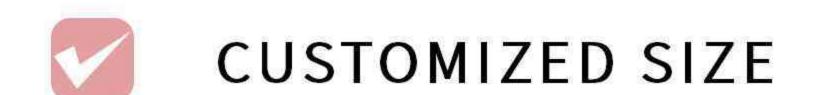
Cell Amount: 132 half-cells





Solar Creek Customized Solar Modules

POWER:10W-380W









Portable, lightweight, high efficiency.

- Max. STC Power 180W
- System Voltage 1500V
- Size 1020mm*875mm*35mm



Solar Street Light •

Tailored for diverse street light systems.

- Max. STC Power 110W
- System Voltage 1500V
- Size 820mm*700mm*30mm



Photovoltaic RV Car

Lightweight solar panel perfect for RVs.

- Max STC Power 130WP
- Max System Voltage 1500V
- Size 890mm*765mm*30mm







Maximum Rating

Power selection 0~+5W

Measuring uncertainty of Pm 0~±3%

Operating Temperature -40°C~+85°C



Low Light

High Performance in Low-light environment



Warranty

25/30 Years Power Output Warranty
10 Years 90%, 25 Years 80%
15 Years Product Warranty on Materials



Qualified Materials

MBB/SMBB Cell
Higher Output Power
Harsh Environmental Adaptability
PID Protection



Enhanced External Load

Wind Load 2400Pa Snow Load 5400Pa



Certification

IEC61215: 2021 IEC61730: 2016
TUV Rheinland Standard, IEC, CE,
ETL, UL, MCS, CB, JP-AC, INMETRO
ISO9001, ISO14001, CQC, CSI, etc



Certificates

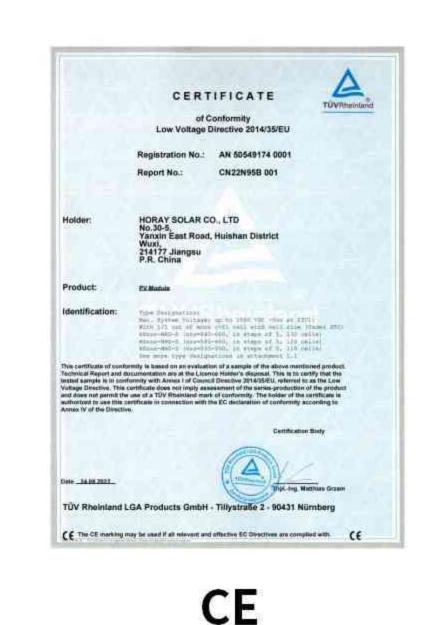
For Products

Tested by the Third-party, Horay Solar 's modules obtained international certifications. Incl. TUV, IEC, CE, MCS, CSI, INMETRO, CB, ETL, BSCI, JP-AC, CQC etc.

For full details, please contact us.











INMETRO





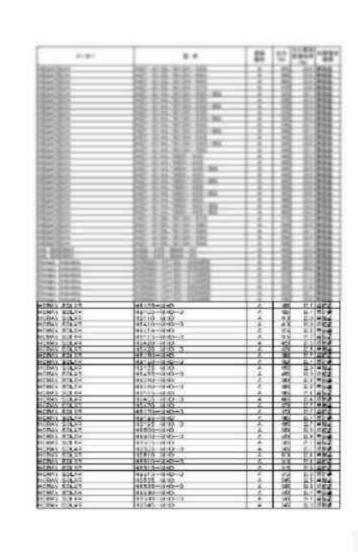
MCS







ETL



JPAC



CB

Certificates

For Factory

Tested by the Third-party, Horay Solar factory obtained international certifications. Incl. BSCI, ISO9001, ISO14001, ISO45001 etc.

For full details, please contact us.



BSCI



ISO 9001



ISO 14001



ISO 45001

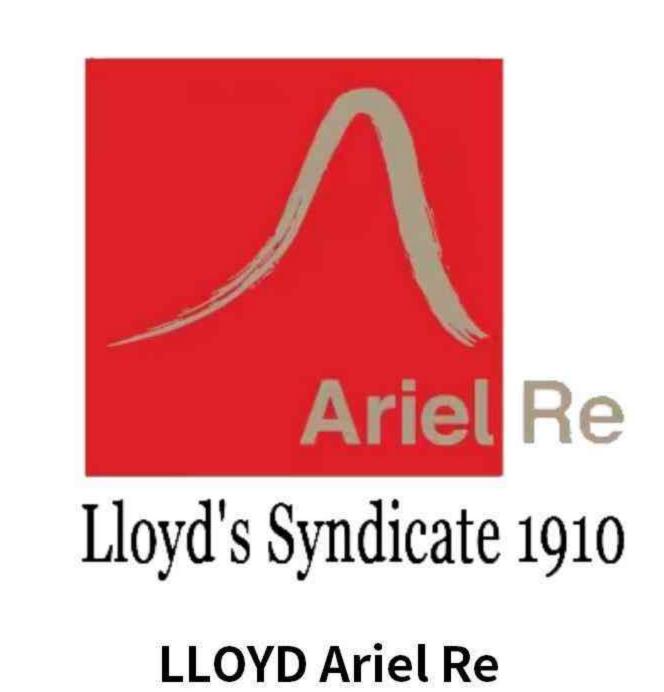


Certificates

Additional Services

Horay offers solar performance insurance la sting up to 30 years, along with module recovery and recycling services.

For full details, please contact us.





PV CYCLE



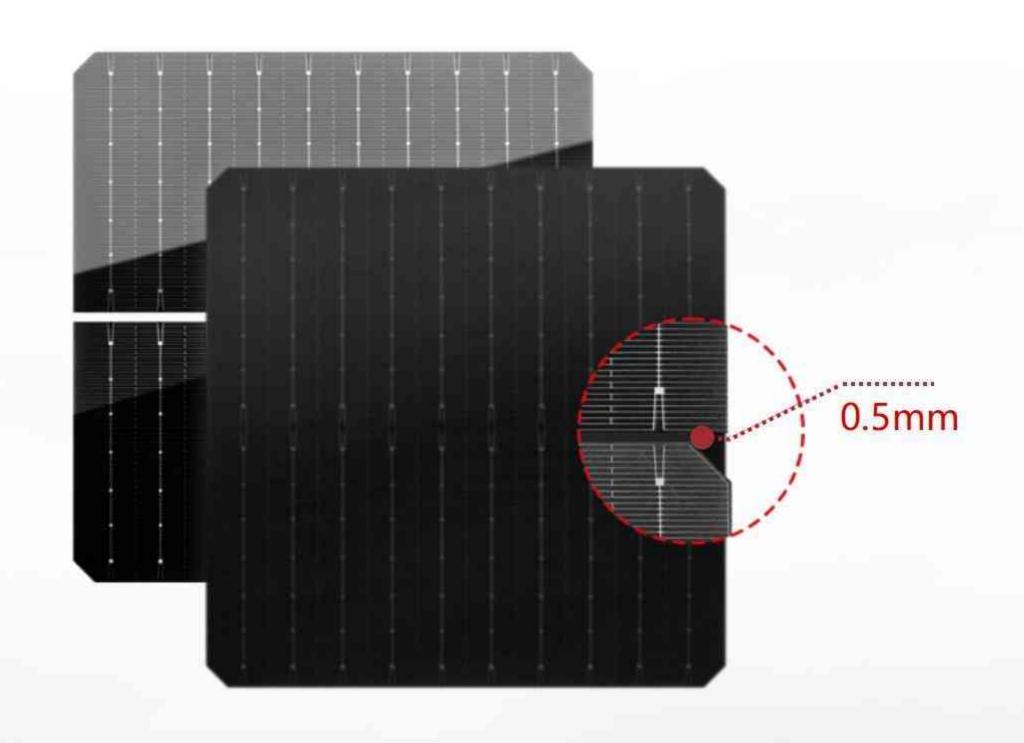
PERC Technology 182mm & 210mm High Efficiency Cell

High Efficiency

Enlarged cell area

MULTI-BUSBAR

- Reduced micro-cracking rish
- Increased active working area



HALF-CUT TECHNOLOGY

- High-precision laser cutting
- Lower internal power loss

MINIMIZED CELL GAP

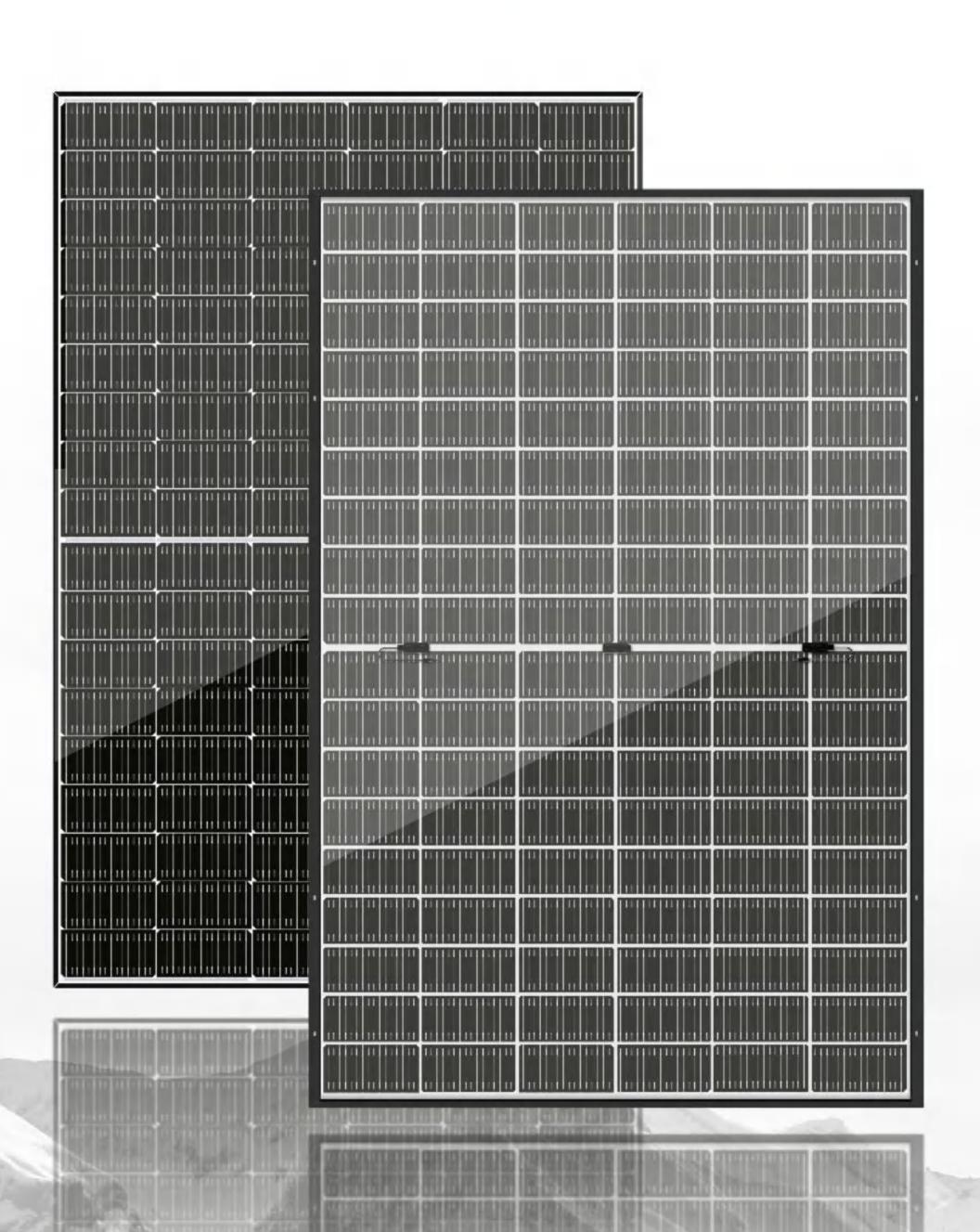
High-density encapsulation



Innovative N-Type Technology

Innovative Cell Technology

- Selective passivation contact
- Slim multi-busbar
- Larger active working area
- Higher power output
- Lower attenuation rate



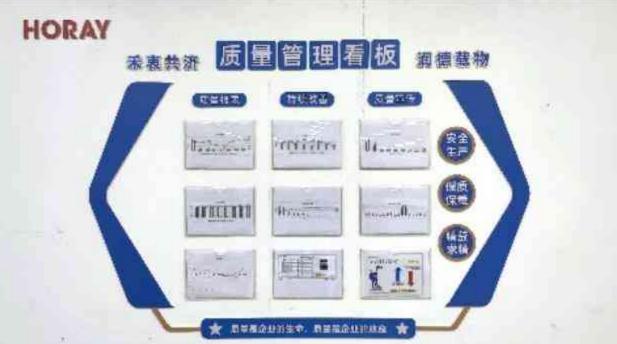
Extra Power Gain From Bifacial Applications

- A significant power increase from the backside
- High intensity encapsulation
- Superior load capacity









- Manufacturing Statistics
- Product Line Management
- Quality Control
- Fault Management
- Material Management
- Planning and Scheduling
- BOM Management

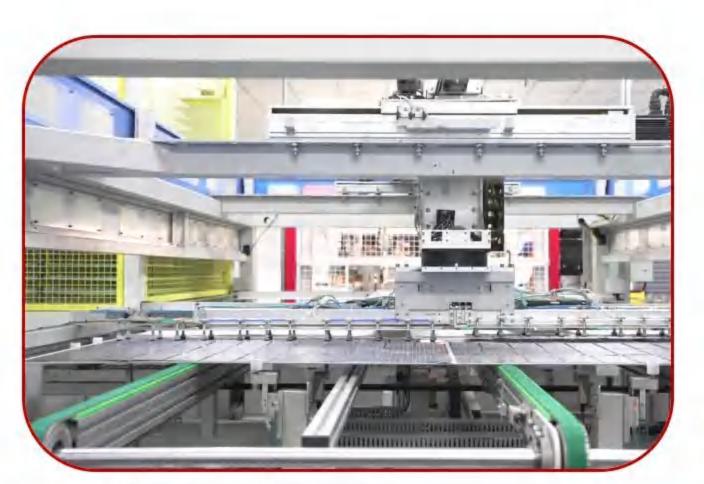


Technology www.horaysolar.com

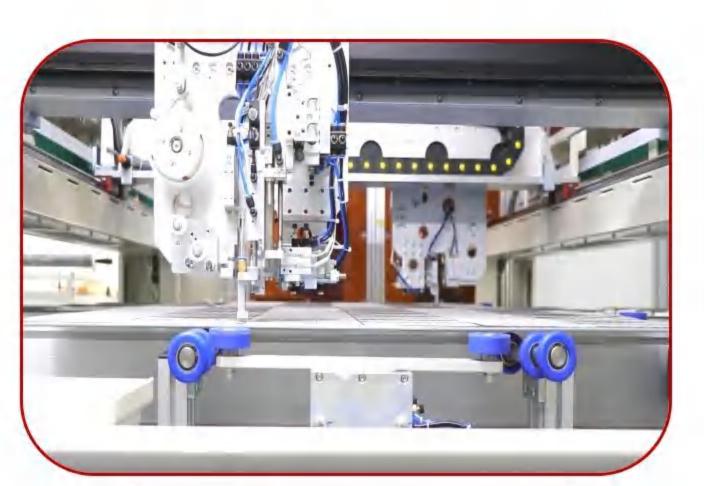
Automatic Production Equipment































10 FRAME UP





COT LAMINATION

et test







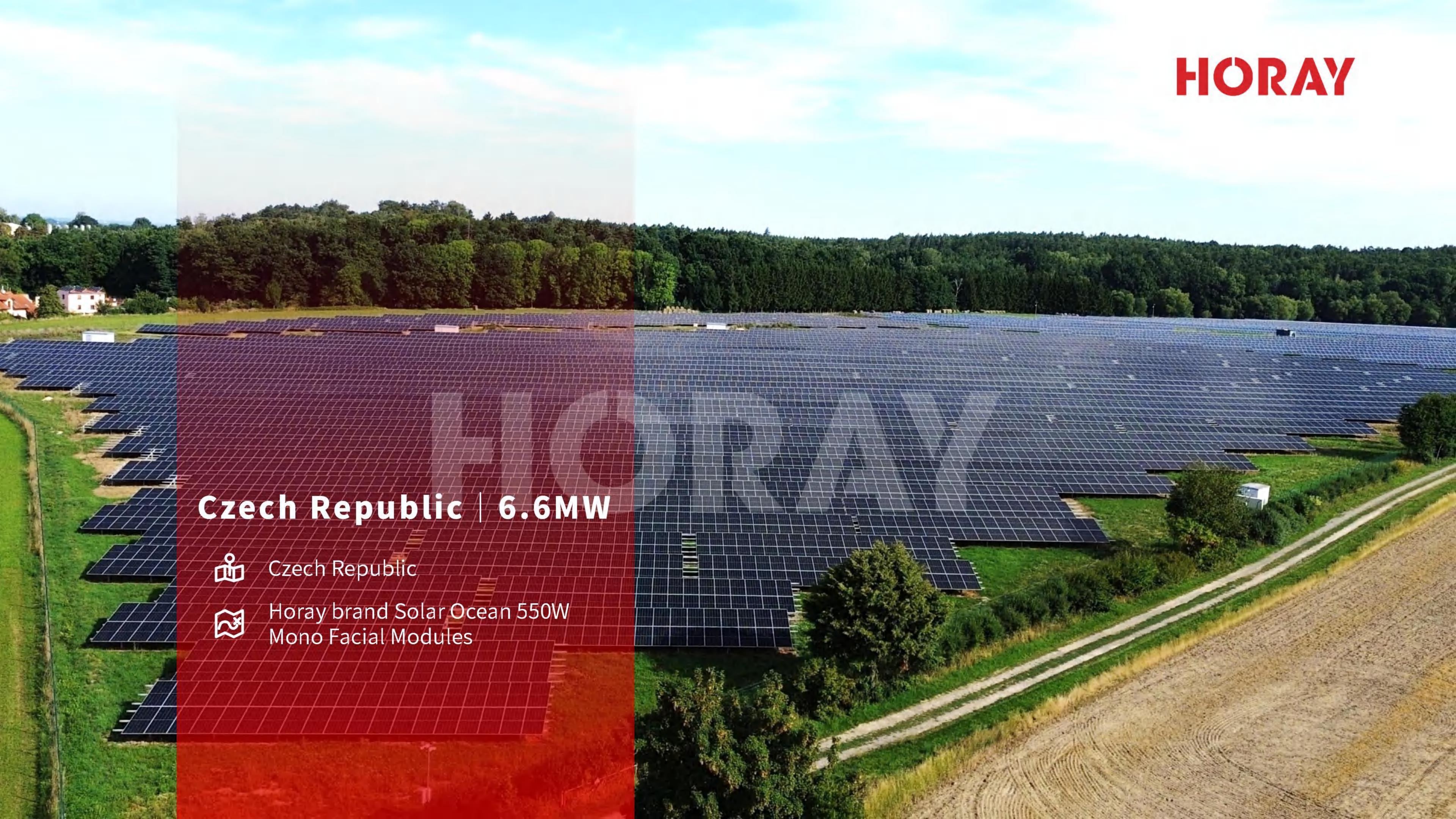
























FICOR/AW

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Embrace the Sun Step into a Bright Future with Horay Solar

Horay Solar Co.,Ltd

