

TO BE THE RELIABLE

FPV SYSTEM&SOLUTION SUPPLIER

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SUNGROW

Sungrow Floating relies on Sungrow Group which has 23 years of research and production experience of solar power industry and organizes a research and development group of floating system, which consists of several professors and doctors. Sungrow Floating has applied more than 90 patents concerning floating body, matrix anchorage, inverter&booster floating platform and system operation and maintenance, took the lead to set up a number of floating technology standards, its global application share exceeds 1/3 and devotes itself to be the reliable FPV system&solution supplier.



Top 100 Alternative New Energy Enterprises



Intelligent Factory



Raw Material R&D Laboratory



Product Comprehensive Testing Laboratory

Environmentally Friendly Materials
Food-grade materials,
environmentally friendly

Reliable Product Design
Accurate calculation, optimized design,
comprehensive test and verification

Floating System Patent
Professional R&D group,
applied for more than 90 patents

25 Years Designed Life Time
Climate-resistant changed materials,
ensure long-term benefits

Customized Anchoring System
Customized to project environmental
conditions, high reliability

Market Shares
Sales performance all over the world,
market share exceeds 1/3

Global Network Resource

Exclusive Resources
8 fitting warehouses&full-time
service engineers

Quick Response
1 hour-Response,
24hours-Problem Solving

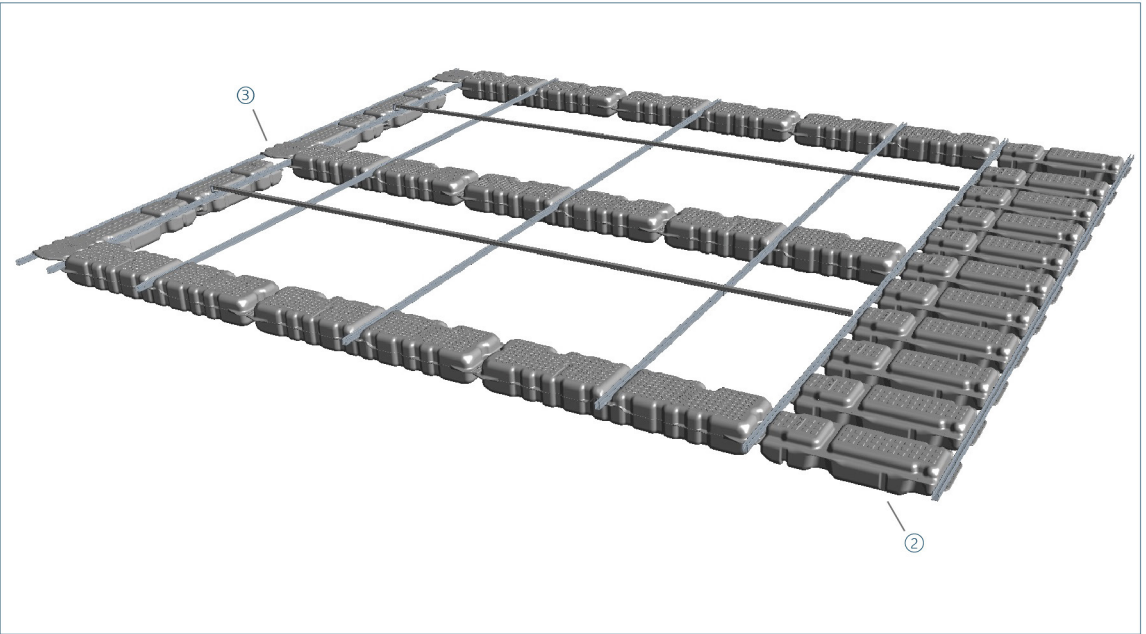
Global Platform
Covering over 50% countries
and regions worldwide

One-stop service
Provide products and
services of floating system

Customer Serving
Opend technologies & product
maintenance & Training for
system design

Customer Service Line
400 119 7799

Floating Products



No.	System Component	Function	Temperature tolerance	Antifatigue	Material
①	Aisle floating body	For O&M	- 40 ~ + 85℃	100,000 times of dynamic load cycle	HDPE
②	Multi-function floating body	For electrical connection and O&M			
③	Cover plate floating body	For O&M			

Product Advantages

- ESCR
- 25 years designed life time
- Antiseep,hydrolysis resistance
- Environment friendly material (BS6920)
- Photooxidating and damp-heat aging resistance

- Water tightness
- Antifatigue,wave resistance
- Strong bearing capacity, stab resistance
- Skid resistance; scratch and abrasion resistance
- Anti-tensile for fitting lug, anti-looseness for connection



- Water quality detection ☒ Damp-heat aging ☒ Oxidation induction time ☒ Impact brittle temperature ☒
- Strain relief test of opposite side angle ☒ UV-irradiation aging ☒ Bend fatigue test ☒ RoHS ☒ ESCR ☒

System Solution

System layout



Good ventilate effect



Power generation improvement



Low LCOE



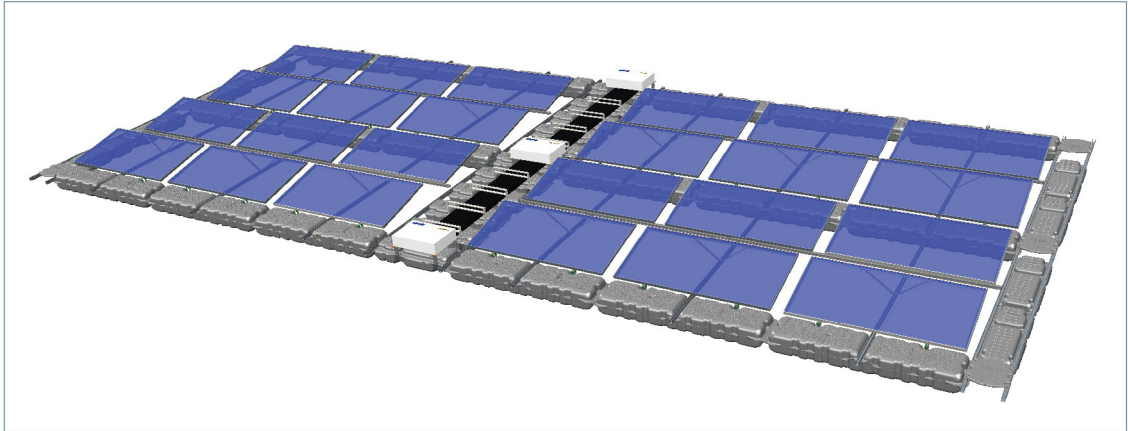
Suitable for different Snow Loads



Suitable for offshore area



Suitable for large PV panel



Convenient O&M

Strong wave/wind resistance

Resistance to corrosion environment

Custom-made for various environmental characteristics

Cable floating Solution



Flexible structure



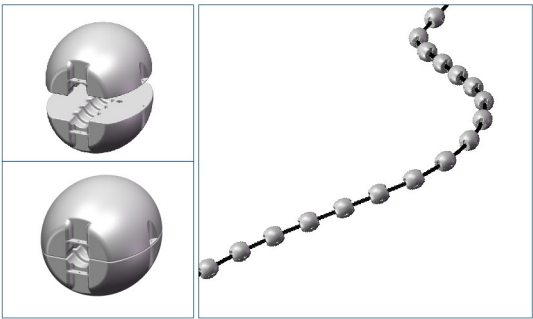
Sturdy and durable



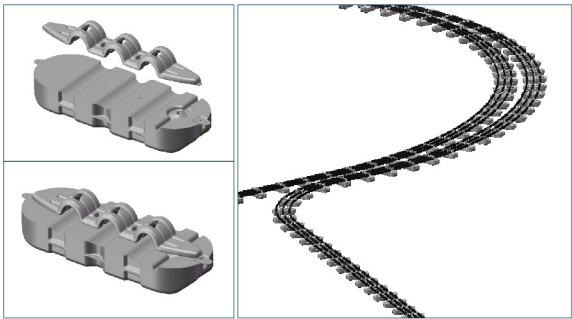
Resistant to wind and waves



Flexible wiring



Single cable solution



Multiple cables solution

S-type scalable design, adapt to square drift in real time

Suitable for various specifications of cables and a variety of waters and terrain

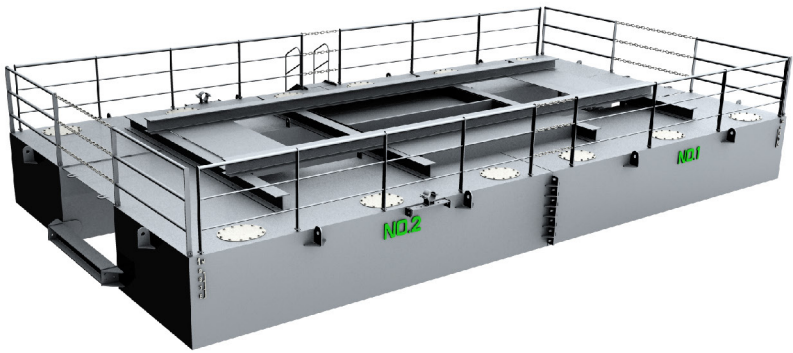
Suitable for single high-voltage cable and multiple DC cable wiring

Wiring scheme can be customized in combination with local environment

Inverter&booster floating platform

Good compatibility of facility, high safety

Lower DC cable loss, higher system efficiency



1 // Installation on site, convenient O&M

3 // Rational modular design, convenient for transportation and maintenance

5 // Pontoon with multiple subdivisions to improve overall security

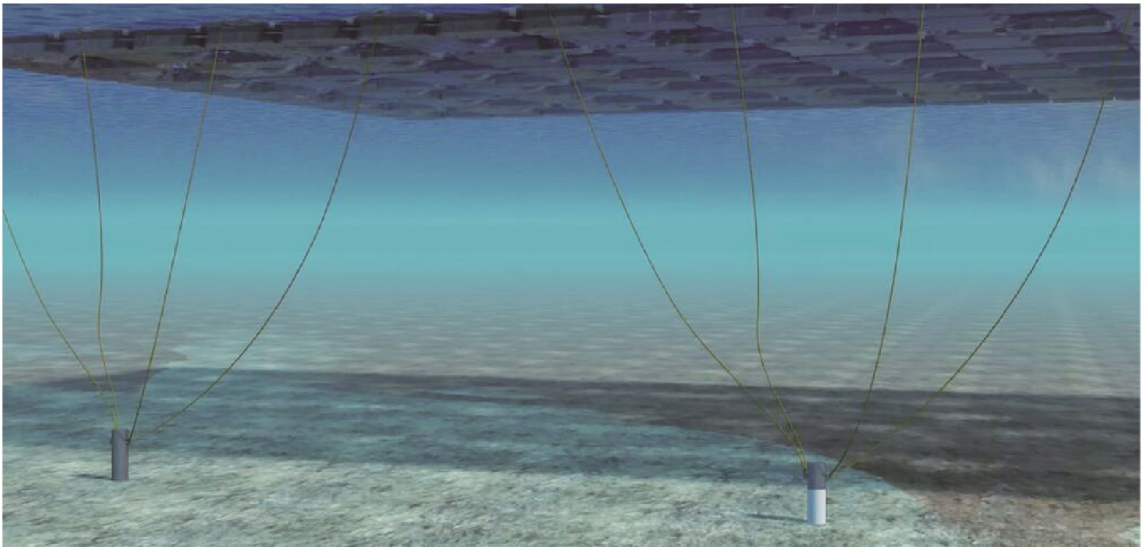
2 // Multi-man holes design, easy for operation, maintenance and also inspection

4 // Environmentally friendly coating layer design, excellent resistance to aging and corrosion (Severity C5)

6 // Separated oil collection container, compatible for different types of electronic equipment

Anchoring system

Customized anchoring system design is capable for various scenes with different water depths and water level variation.



Design process for anchoring system

1 // Confirm the max wind, wave&water flow conditions

3 // Selection for anchoring system layout

5 // Confirm the max tension of mooring rope, confirm anchoring system

2 // Analysis of wind&water flow force or model wind tunnel experiment

4 // Coupling analysis of hydrodynamic force and anchoring system in extreme conditions

6 // Confirm the safe distance of matrix

Advantages of Floating Power Plant



Land Resource Conservation
availability on water reservoir, fishpond, mining subsidence area, coastal waters etc.



Water protection
reduce water evaporation, control algae growth



Power generation improvement
good water cooling effects, 10% more power generation



Convenient O&M
no obstructions, convenient cleaning



Easy installation
short period installation cycle



Market Advantages
abundant water resource and able for large-scale promotion

Application Scope of PV Floating System

Coal subsidence



Scenery lake



Small unused water area



Pond



Reservoir



Sewage treatment reservoir



Offshore water area



Extremely cold area



Frequent typhoon area

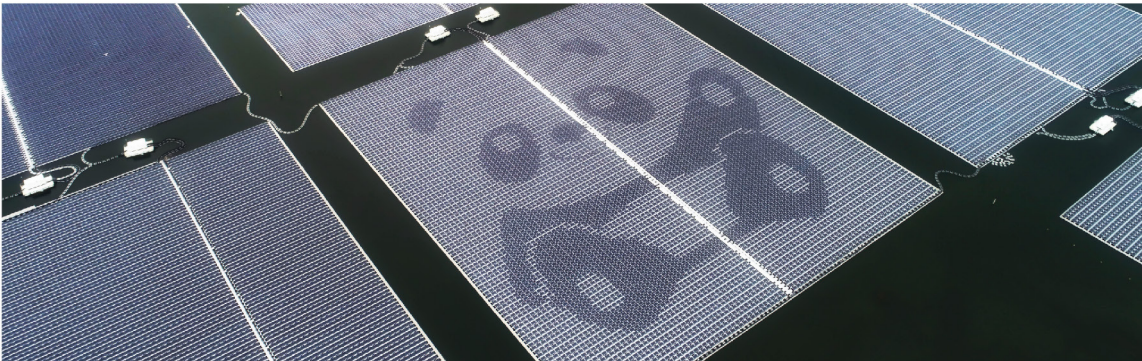


Global Projects

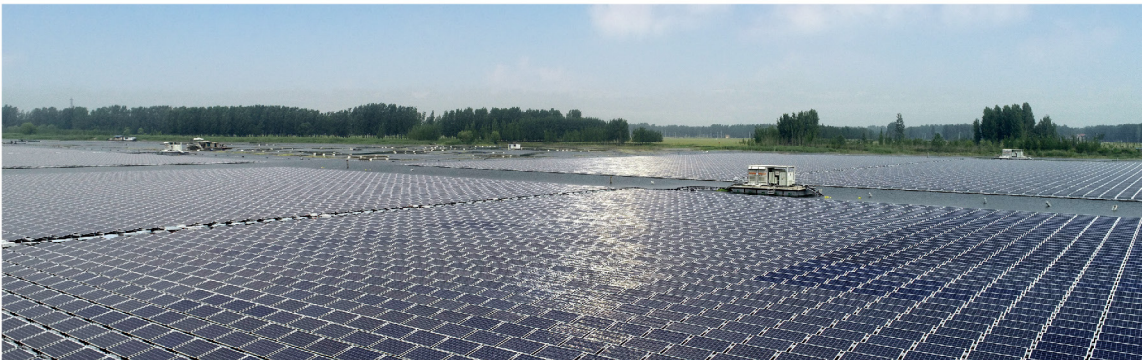
Large-scale floating power plant



Guqiao Huainan



Xinji Huainan



Weishan Jining



Huancheng Jining



Panji Huainan



Yuanjiang Yiyang



Weishan Jining



Qintang Guigang



Bajing Gaoan



Yunxi Yueyang



Southeast Asia



Southeast Asia

Global Projects

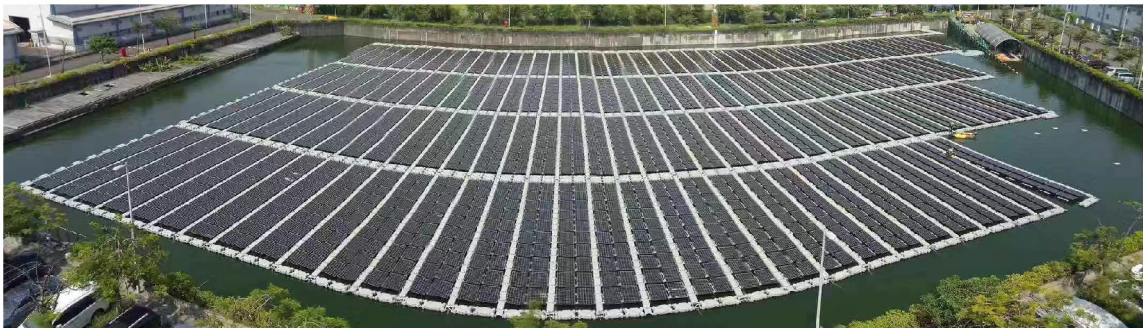
Special application floating power plant



Shunyi Beijing (Settling Basin)



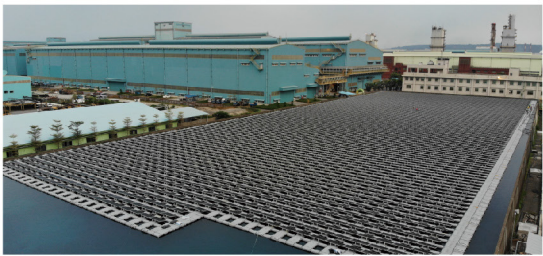
Taiwan (Pond)



Taiwan (Pond)



Taiwan (Typhoon region)



Taiwan (Pond)



Harbin Heilongjiang (Extremely cold region)



Daqing Heilongjiang (Extremely cold region)



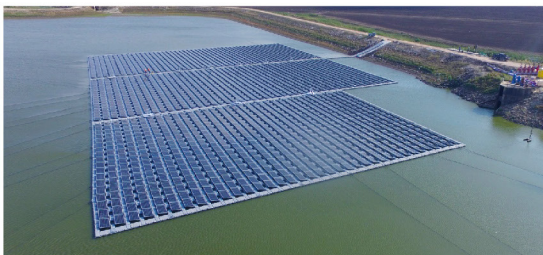
EMEA (Pond)



EMEA (Reservoir)



EMEA (Pond)



EMEA (Reservoir)



EMEA (Reservoir)



Southeast Asia(Amusement Park)



EMEA (Irrigation Pond)

Our Services



Technical
consultation



Project
Design



Anchoring
Study



Product
Supply



Power station
Optimization



Global
after sales

SUNGROW

Clean power for all

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Tel: +86-554-2601 998

Email: overseas@sungrow.cn

Website: www.sungrowpower.com

The latest information shall prevail without prior notice in case of any change in product dimensions and parameters.

