BINH THUAN PLASTIC GROUP

COPYRIGHT © 2026 BPG. All rights reserved.

MADE IN VIETNAM

# Product Catalog

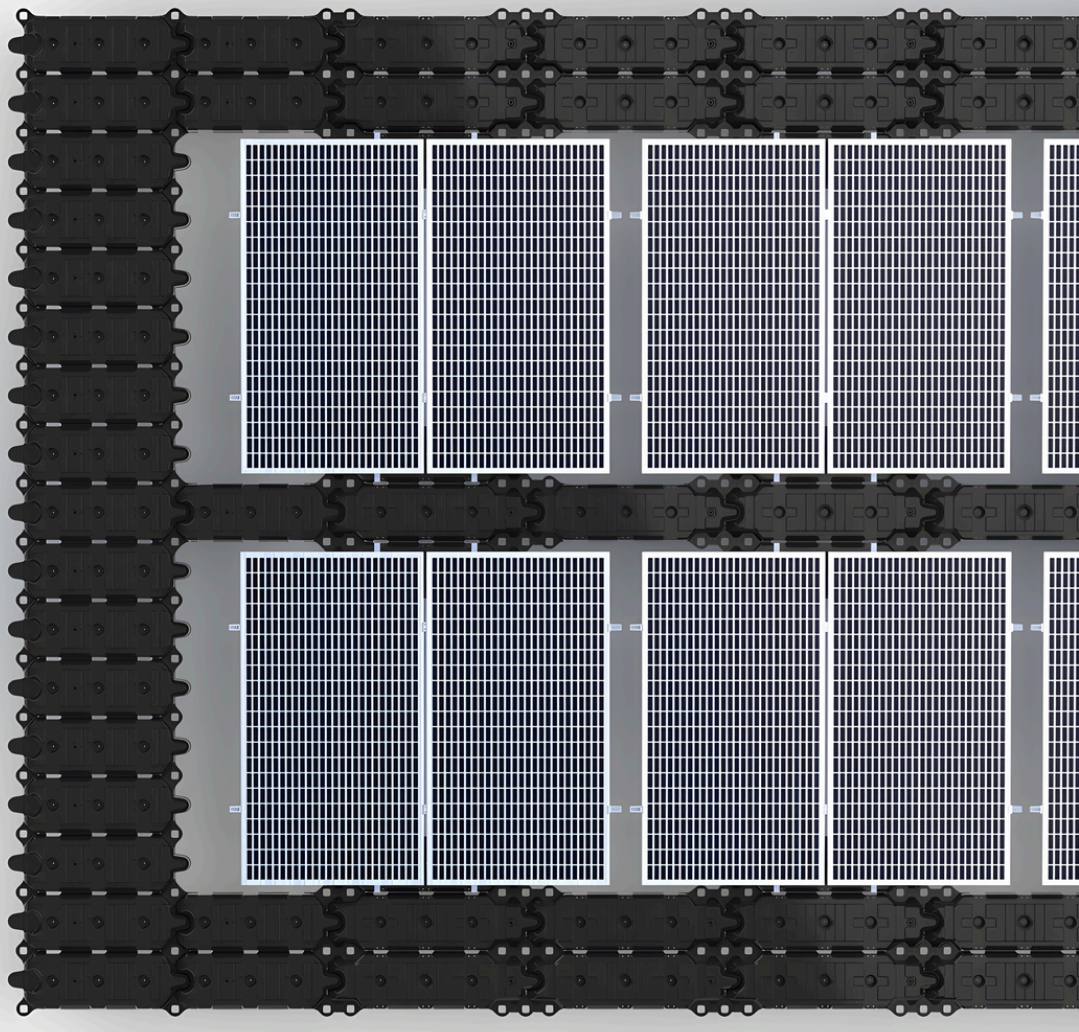
## FLOATING SOLAR SOLUTIONS

**PROVEN DURABILITY**

**UV & WEATHER RESISTANCE**

**HIGH BUOYANCY**

**EASY INSTALLATION**





# OUR SOLUTIONS

## FLOATING SOLAR SOLUTIONS

### PONTOON DESIGN AND SUPPLY

### DESIGN & CONSULTING SERVICES

Floating pontoons made in Vietnam with SCGC technology and specialized HDPE materials.

### MOORING & ANCHORING SYSTEM SERVICES



## ABOUT US

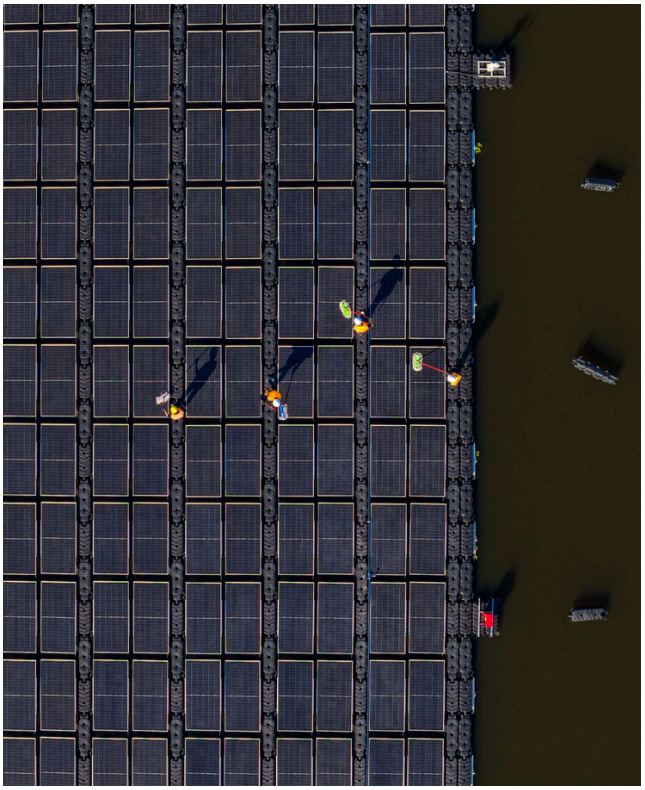
Binh Thuan Plastic Group (BPG) is a Vietnamese industrial plastics manufacturer with 5 factory complexes and nearly 10 member companies. BPG's plastic pallets were recognized as a Vietnam National Brand product in 2026.

In partnership with SCGC – Texplore, BPG manufactures floating solar systems in Vietnam from locally produced resin, raising the localization rate of clean energy projects.

# ADVANCED HDPE FORMULATION FOR FLOATING SOLAR

**Black is our standard color for floating solar pontoons**, selected for its proven performance and long-term durability in outdoor applications.

Other colors are also available as optional choices upon request, providing greater flexibility to meet specific project, environmental, or aesthetic requirements.



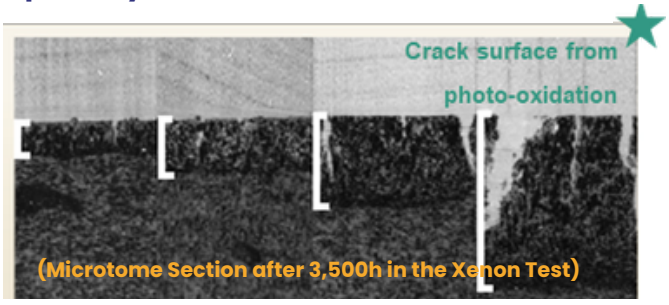



## Material Science (Core)

- H800BBK Grade HDPE Resin
- Carbon Black Integration

**"Engineered at the material level"**

## UV Protection of Polypropylene with Specialty Carbon Blacks




## Performance Impact

- UV Resistance ↗
- Lifetime ↗
- Structural Integrity ↗
- Anti-degradation

**"Designed for long-term durability"**



# TYPICAL APPLICATION

Floating solar systems can be installed in various water-based locations to maximize space efficiency and enhance renewable energy production. Here are some suitable locations for installing floating solar:

HYDROPOWER RESERVOIRS



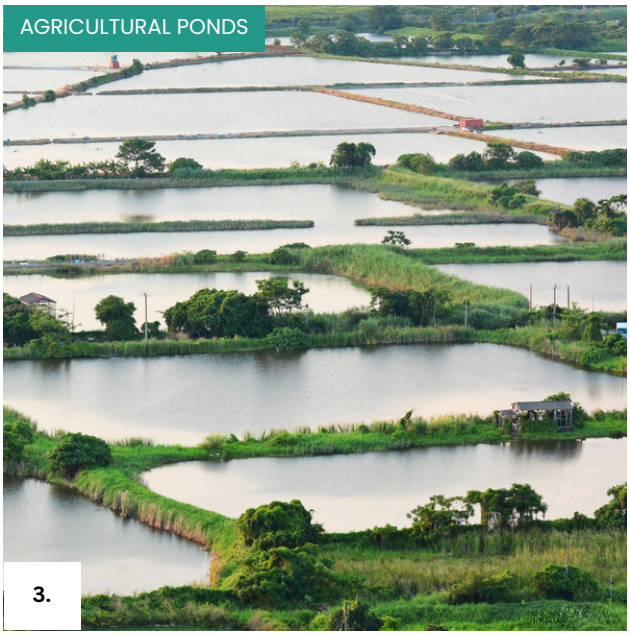
1.

INDUSTRIAL PONDS



2.

AGRICULTURAL PONDS



3.

OFFSHORE ENVIRONMENT



4.

**1. HYDROPOWER RESERVOIRS**

Increases energy production in existing hydropower reservoirs without requiring new land.

**2. INDUSTRIAL PONDS**

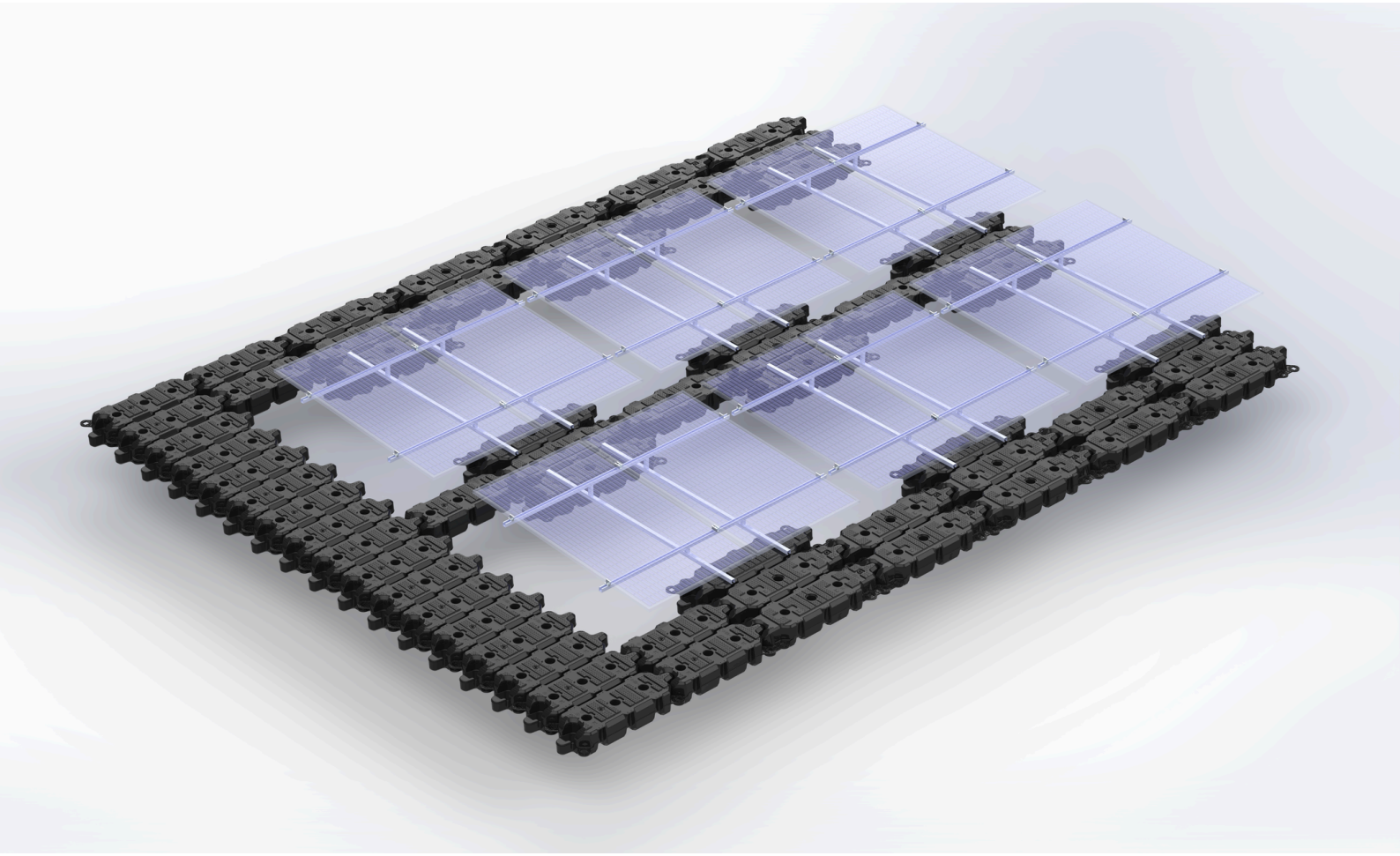
Utilizes existing water bodies in industrial sites to generate energy, saving land.

**3. AGRICULTURAL PONDS**

Reduces algae growth and improves water quality in agricultural ponds.

**4. OFFSHORE ENVIRONMENT**

Allows for renewable energy production without impacting conservation areas or ecosystems.



# FLOATING SOLAR MODEL

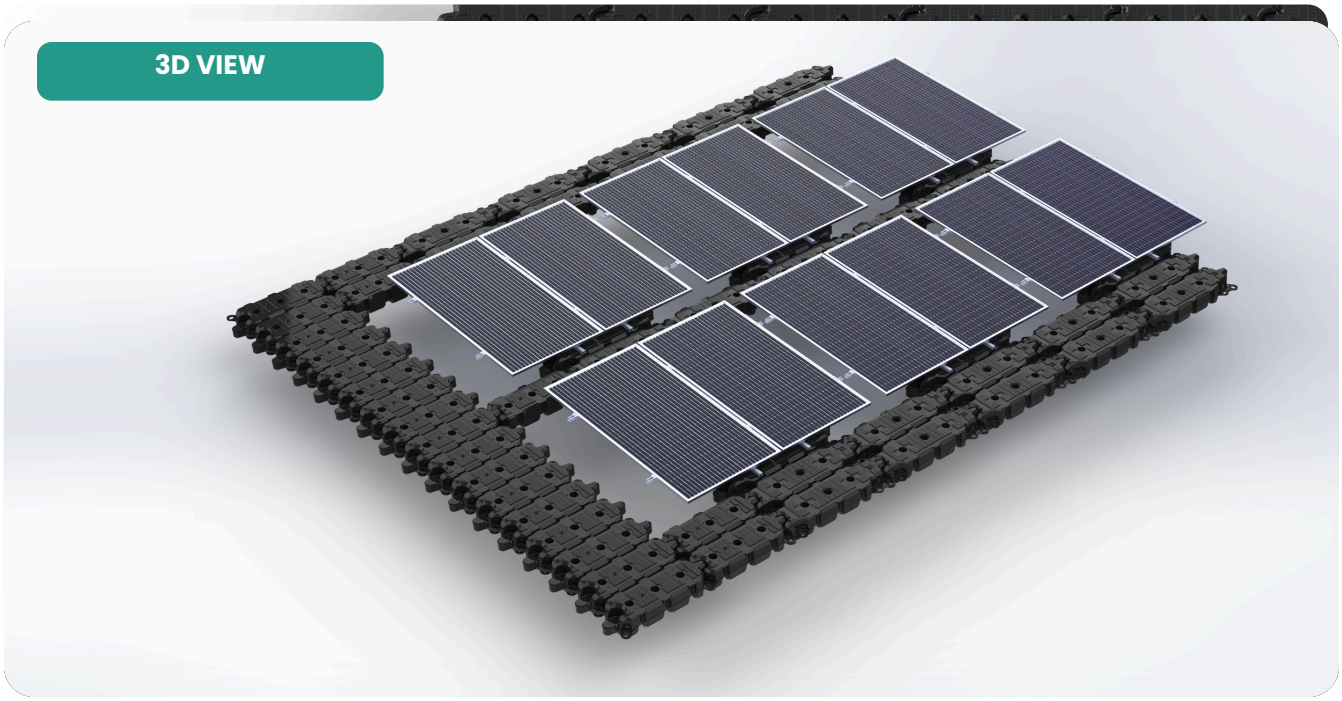
**Floating Solar Model** is an advanced floating PV solution that combines proven durability, reliability and resistance to outdoor environmental conditions with an optimized structural design, improving overall system performance.

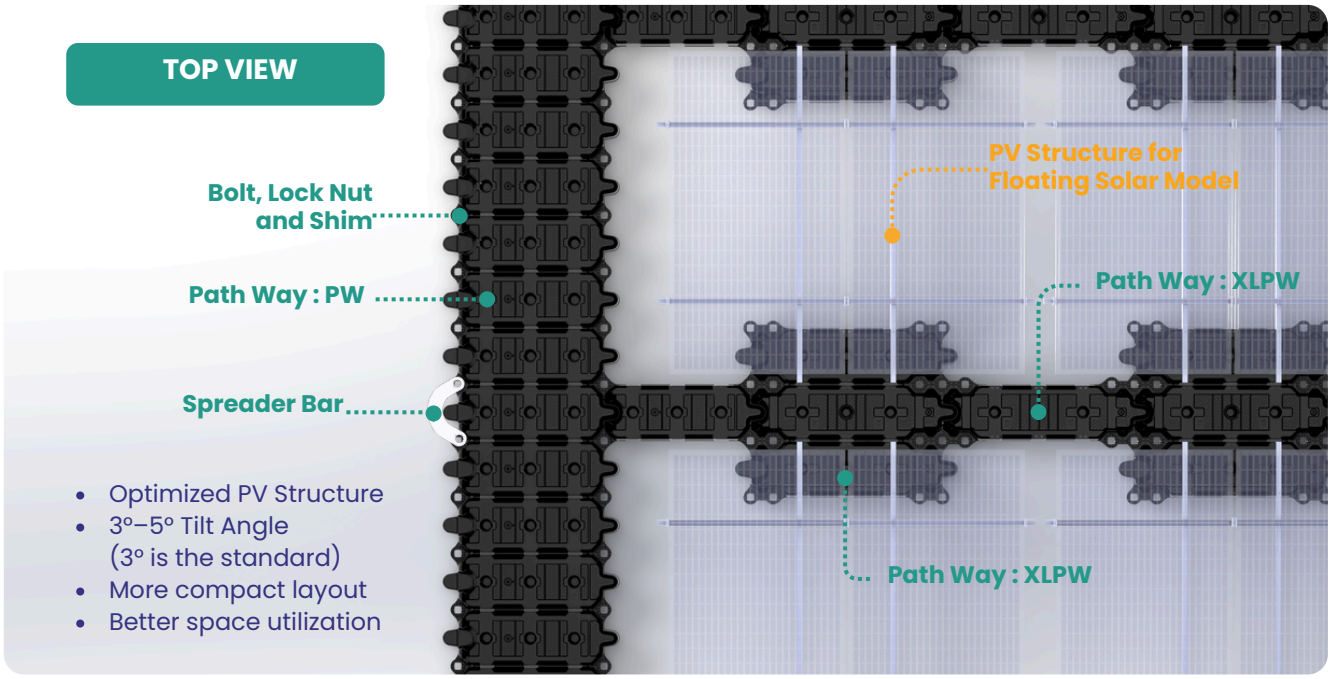
**The Floating Solar Model** offers a compact footprint and optimized space utilization. PV modules are secured within the designated clamping zone (Green Zone) in accordance with the PV module installation manual. These features provide greater design flexibility and project cost efficiency, making the Floating Solar Model a practical and competitive solution for floating solar applications.

# PRODUCT ARCHITECTURE

## One Platform. Complete Solution.

Floating Solar Model combines the proven pontoon system with an optimized PV support structure.




- Optimized PV Structure
- 3°–5° Tilt Angle (3° is the standard)
- More compact layout
- Better space utilization

### Component Legend

**Common Part**
Used across the system

**PV Structure**
PV support structure

### Top View



## PATH WAY : PW

Walk way for access the system during normal operation or for maintenance service.

Support for cable line and accessories of the solar power system.

**Details:**

- 1,320 x 530 x 250 mm.
- High Density Polyethylene (HDPE)
- Maximum Buoyancy 200 kg/m2

### Isometric View



### Side View



### Top View



## PATH WAY : XLPW

Walk way for access the system during normal operation or for maintenance service.

Support for cable line and accessories of the solar power system.

**Details:**

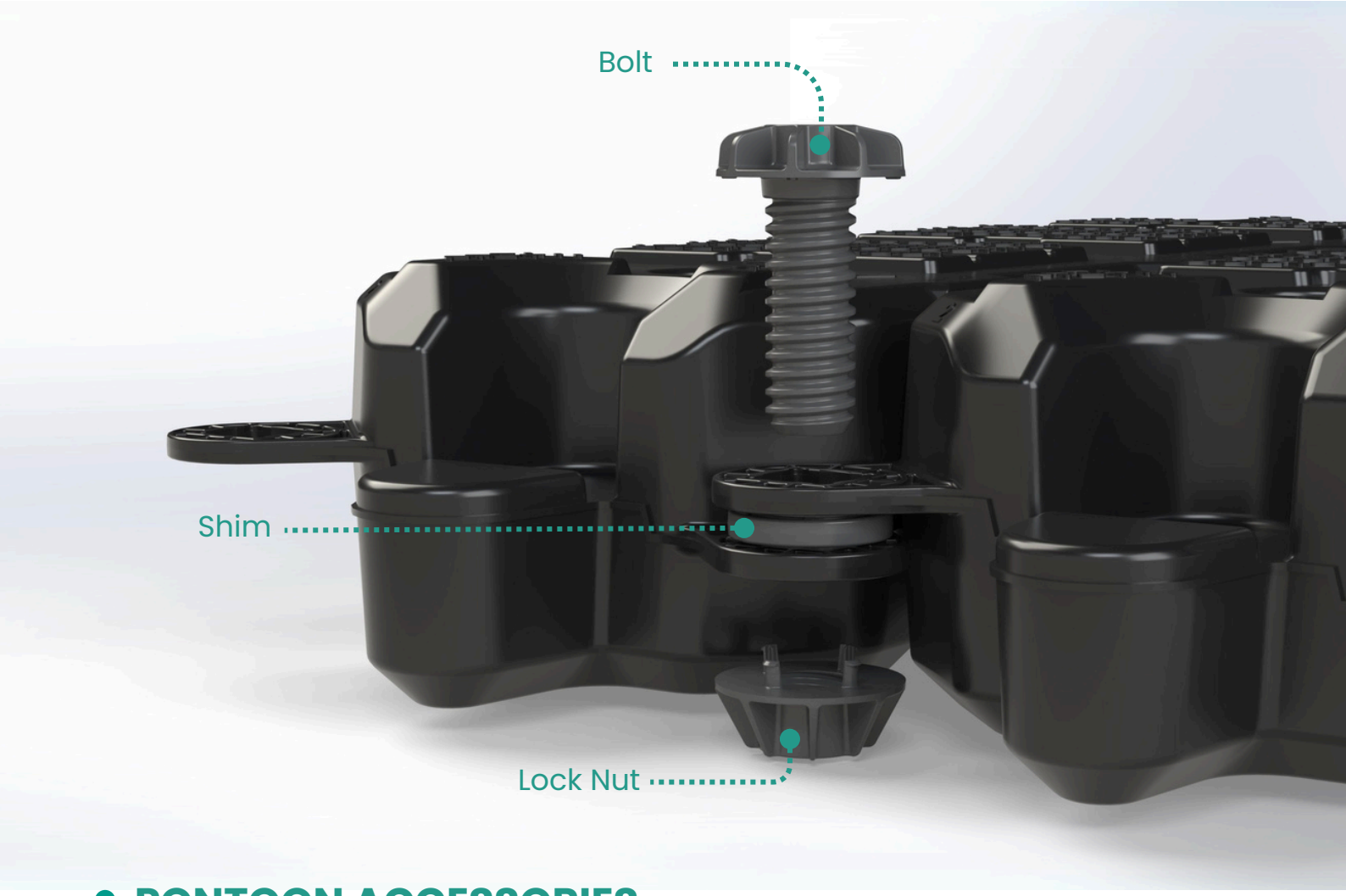
- 1,653 x 530 x 250 mm.
- High Density Polyethylene (HDPE)
- Maximum Buoyancy 173 kg/m2

### Isometric View



### Side View






## PONTOON ACCESSORIES

Connect and adjust the level of floating pontoons.



### Bolt

Connect the pontoons together.

**Material:**

Polypropylene (PP)



### Lock Nut

Connect the pontoons together.

**Material:**

Polypropylene (PP)



### Shim

**Material:**

Polypropylene (PP)



## SPREADER BAR

Act as a connection point for a mooring cable in order to properly spread the load over floating pontoons.

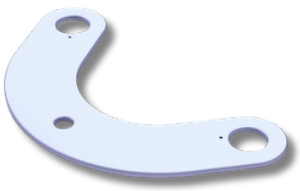


### Long Type

Install on the north and south sides of the pontoon.

**Material:**

Hot-Dip Galvanized steel (85 microns)



### Short Type

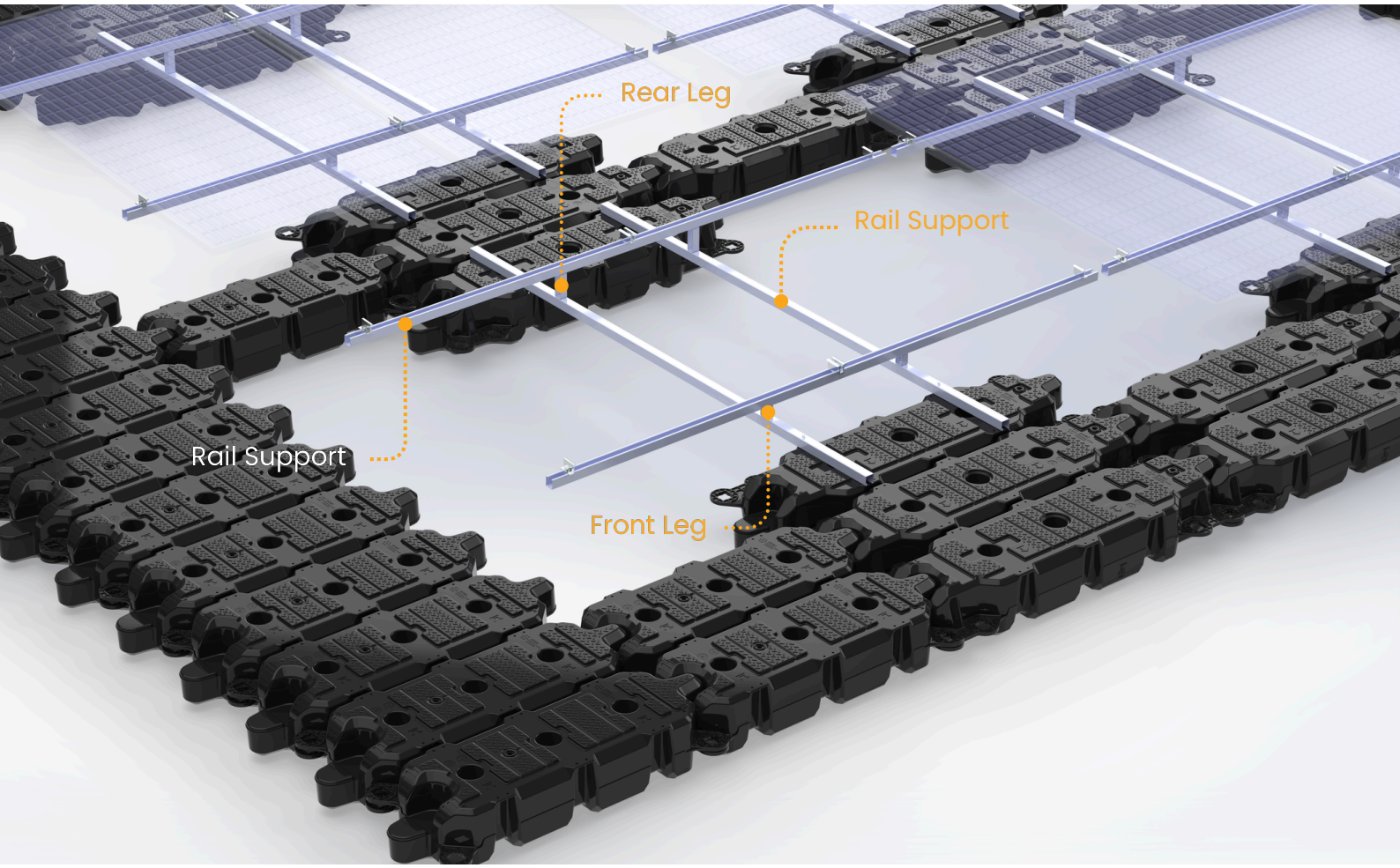
Install on the east and west sides of the pontoon.

**Material:**

Hot-Dip Galvanized steel (85 microns)

# PV STRUCTURE FOR FLOATING SOLAR MODEL

Attach and fixing the PV Module with floating pontoons.






## Front & Rear Leg

3° is the standard angle.

**Material:**

Coated steel (Zn-Al, Mg)



## Rail Support

Supports solar PV mounting Leg and PV module.

**Material:**

Coated steel (Zn-Al, Mg)

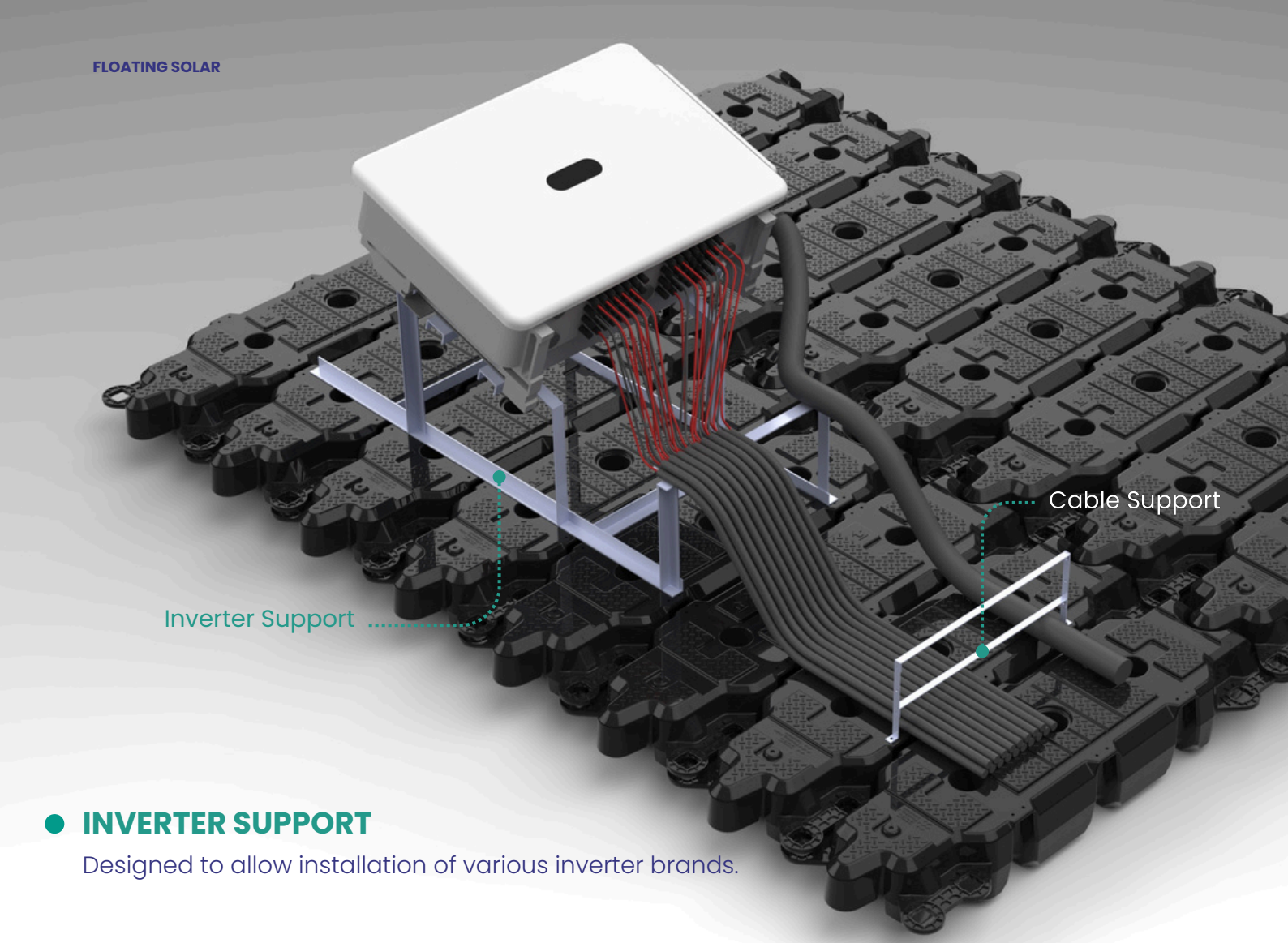


## Bolt & Nut

Used to fasten two materials together by threading.

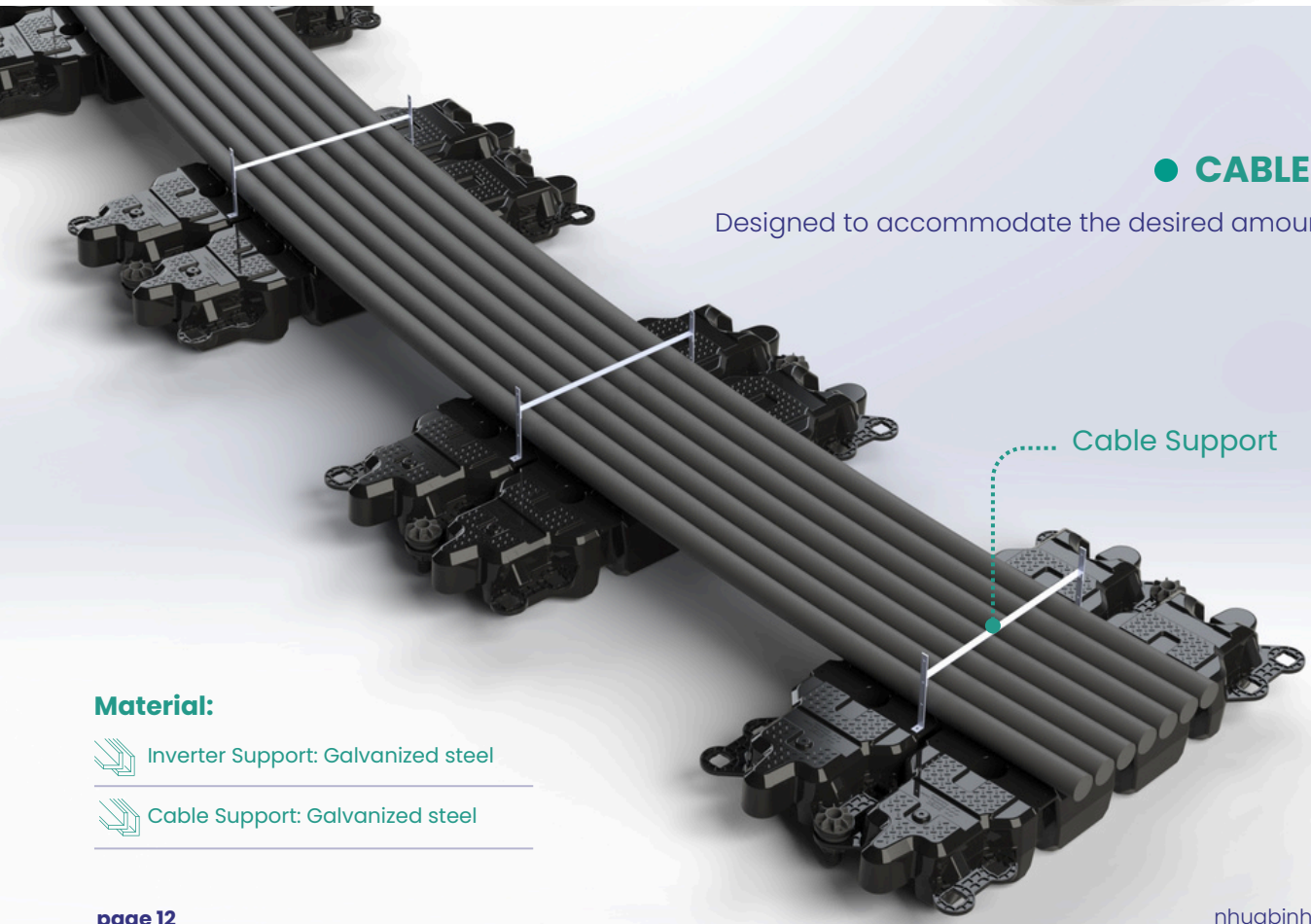
**Material:**

Stainless SUS304




## INVERTER SUPPORT

Designed to allow installation of various inverter brands.




## CABLE BRIDGE

Designed to accommodate the desired amount of wiring.

**Material:**

- Inverter Support: Galvanized steel
- Cable Support: Galvanized steel

# SOLUTIONS FOR ENHANCED SAFETY







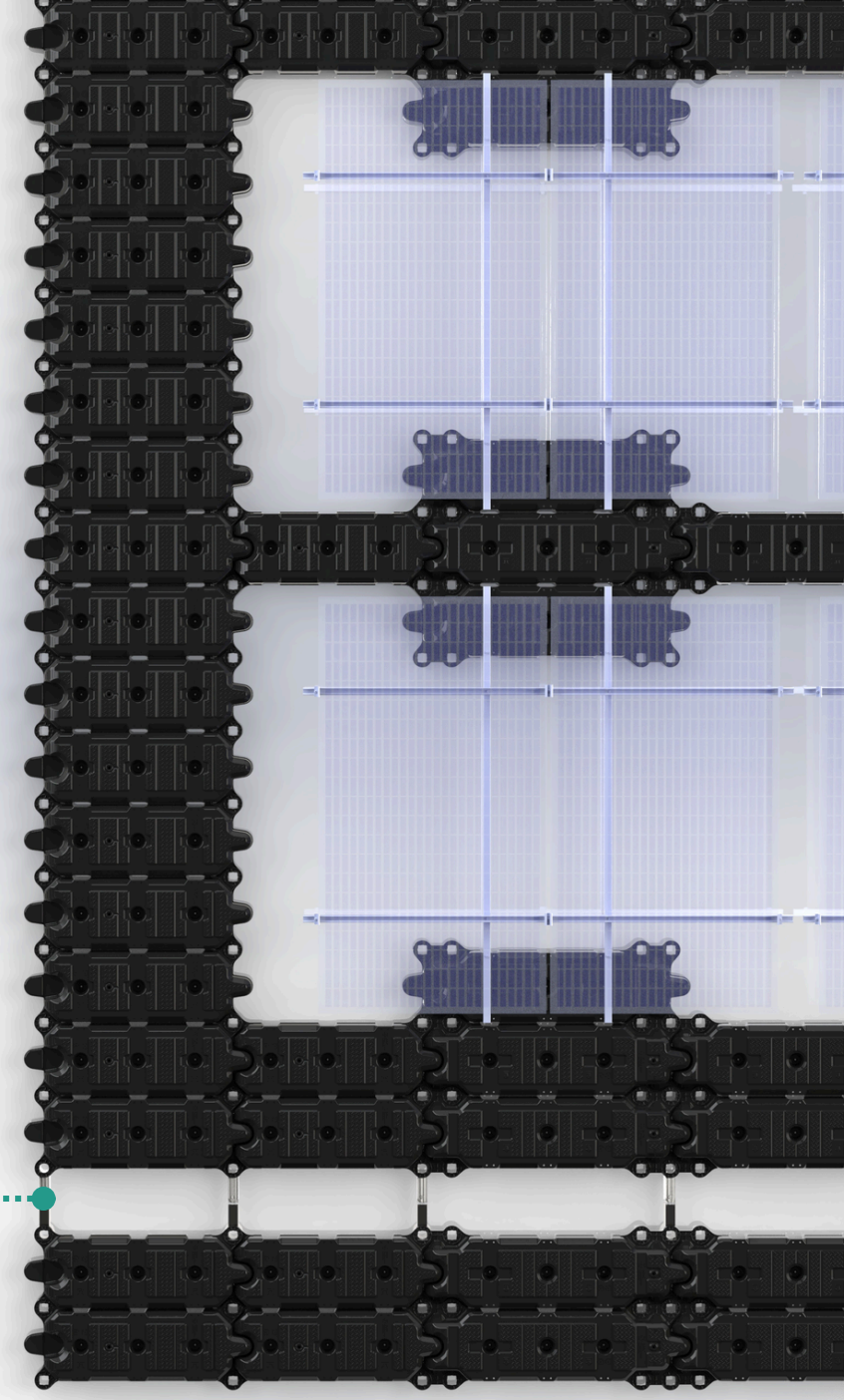
## Handrail

Designed to be installed on floating pontoons and used with boundary ropes to define restricted areas and provide fall hazard warning.

**Material:**

High Density Polyethylene (HDPE)

# SOLUTIONS FOR HIGH-WAVE CONDITIONS





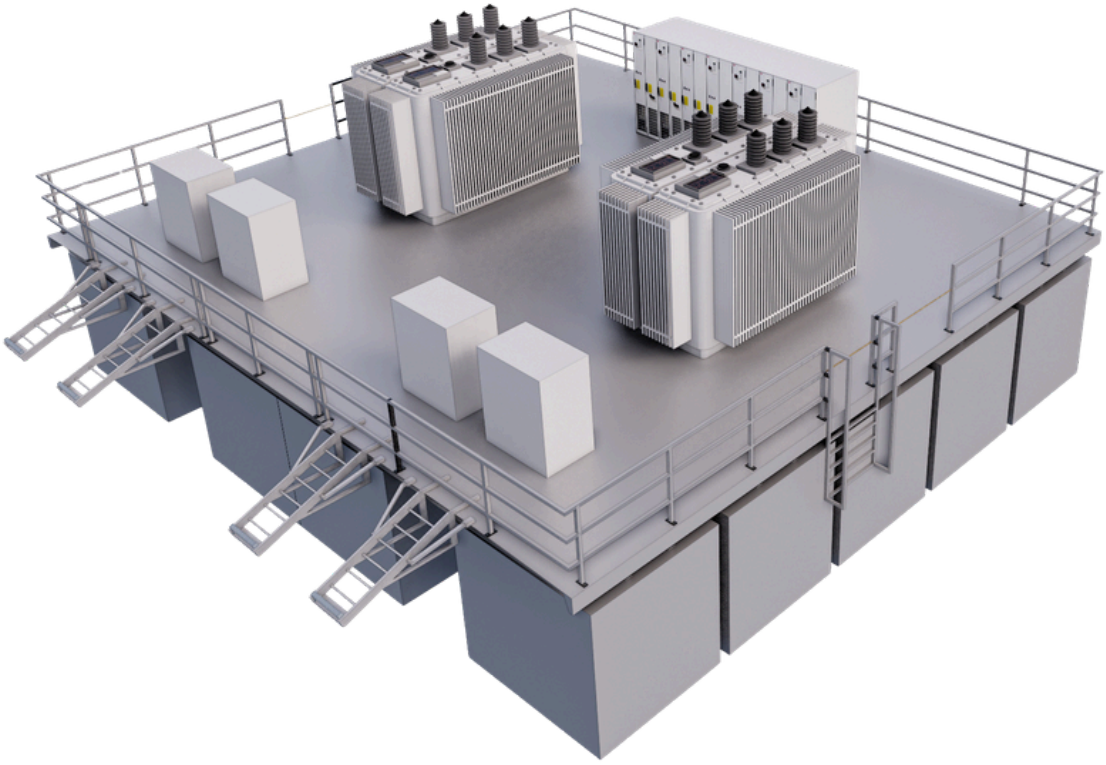

## FLEXIBLE CONNECTOR

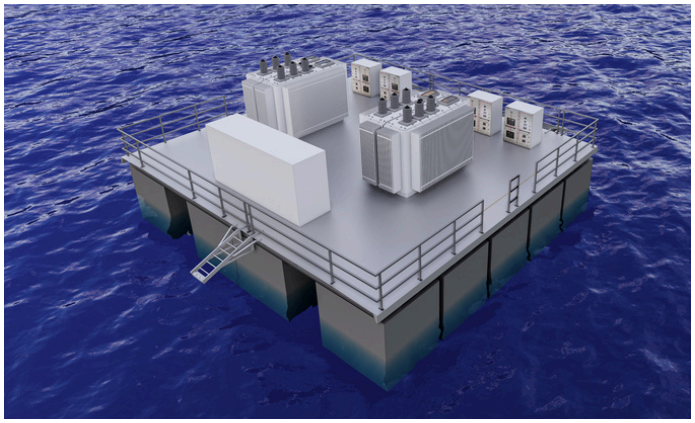
**The Flexible Connector** is specially designed to rotate in multiple directions to prevent damage to the pontoon island when encountering high wave conditions in reservoirs, dams, or sea.

**Material:**

Stainless steel

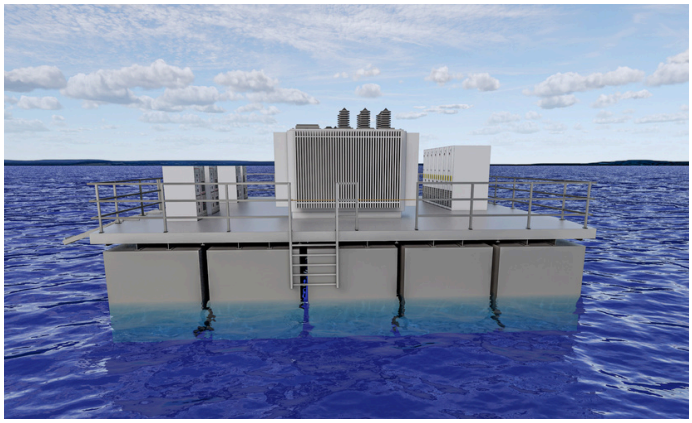
# SOLUTIONS FOR
# REMOTE-FROM-SHORE INSTALLATION





## ELECTRICAL EQUIPMENT BARGE

The Electrical Equipment Barge is ideal for projects requiring mobile, adaptable, and durable power solutions, particularly in areas where land-based installations are impractical or infeasible. This barge offers a reliable solution for temporary or semi-permanent electrical infrastructure in water-exposed or challenging environments.



**Key features :**

- **Floating Platform:** Custom buoyancy for stability and support, accommodating various electrical equipment.
- **Steel Structure:** Made from corrosion-resistant steel for long-lasting durability in harsh conditions.
- **Cable Management:** Strong, flexible pathways for easy cable organization and protection.

BINH THUAN PLASTIC GROUP

**Headquarters**
Binh Thuan Plastic Group Joint Stock Company

nhuabinhthuan.com.vn
Tax ID: 0101775116