



The Totorā FPV product was created to advance floating solar by providing the most efficient, quality, and turnkey floating solar products and solutions available. Totorā offers a modular floating solar product that includes a stable, efficient, all in one turnkey product ready for installation.

Totorā combines high quality components - from the Panels, Floats, & Anchors - from premiere manufacturing partners such as Kyoraku and Hazelett Marine.



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<https://www.totorafpv.com/>



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THE FUTURE IS FLOATING

Totorā FPV



The annual listing of 20 companies that are at the forefront of providing Marine Tech Solutions and transforming businesses

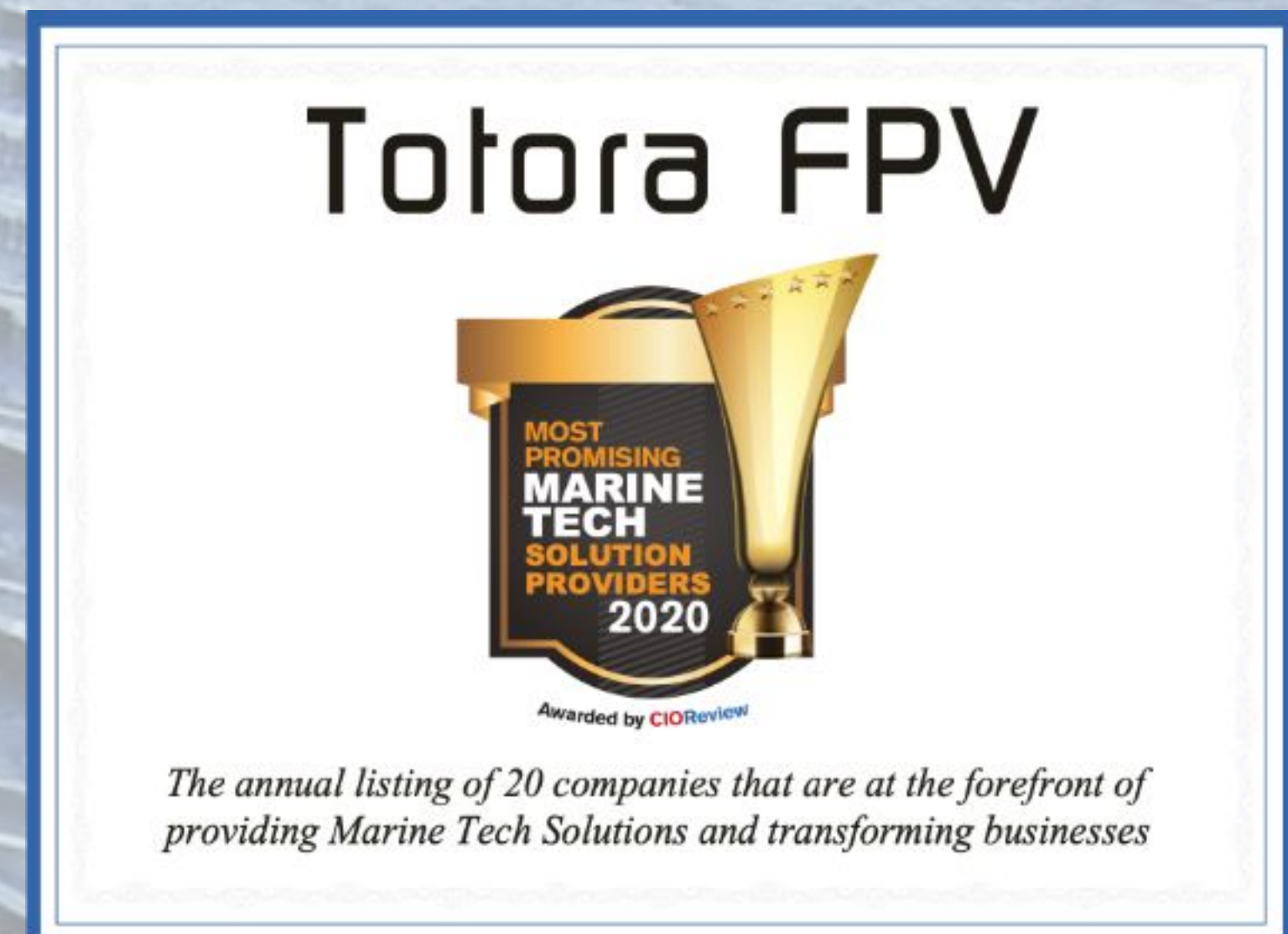
WHY FLOATING SOLAR?

Floating solar is a relatively new industry that has been around since 2006 and has experienced accelerated growth since 2015. The many benefits of putting photovoltaic panels on man-made bodies of water are creating increasing demand for floating solar installations, including: Land preservation, Water volume retention, Water quality preservation, Solar cell efficiency, and Land-based solar farm cost mitigation.

Kyoraku and Hazelett Marine have partnered together to bring the highest quality, all inclusive floating solar product to the market.



TOTORA
FPV



LOW MAINTENANCE

Uniform floats that are easy to work with. Elastic moorings with few metal-to-metal connection points.



ENERGY ABSORPTION

Elasticity of moorings absorbs wave & wind energy, reducing wear on the float system and increasing stability



POINT LOAD REDUCTION

Ease of walking on the system. Power cables stay put and are not jostled around in adverse weather.



SOLAR ARRAY STABILITY

Ease of walking on the system. Power cables stay put and are not jostled around in adverse weather.



ENERGY PRODUCTION

Stable, tensioned arrays produce more energy than systems that are constantly moving around.



ECO-FRIENDLY

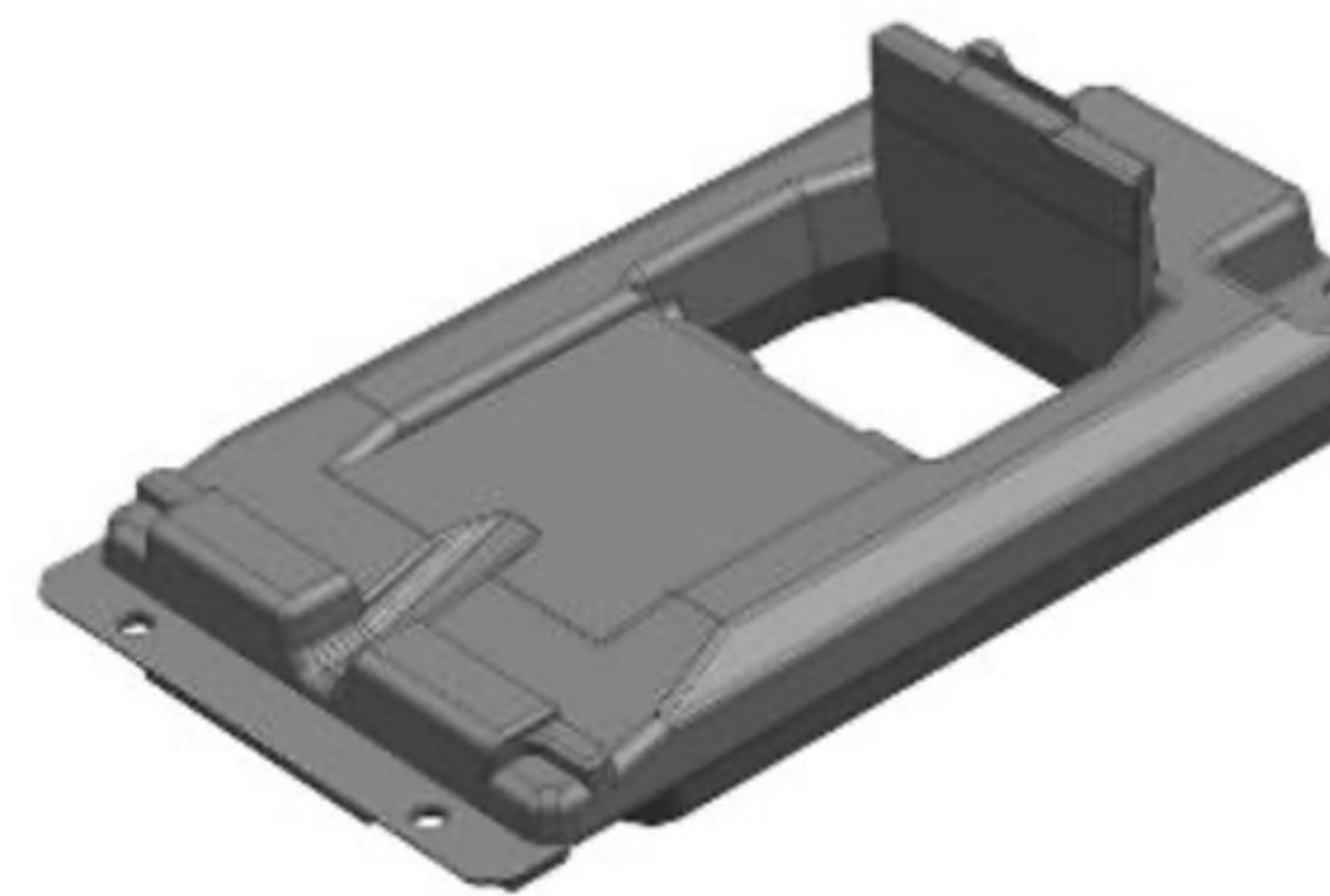
Hazelett elastics connected to Helix screw anchors float above the seabed with a minimal environmental impact.



Product	Services	
~ 2,800 Floats	Customized Schematics	
~2,000 Panels	Installation	
Moorings & Anchors (# varies per project)	Permitting	
~ 2-3 acre coverage per 1 MW block	Shipping	
485 W panels	O&M Planning	

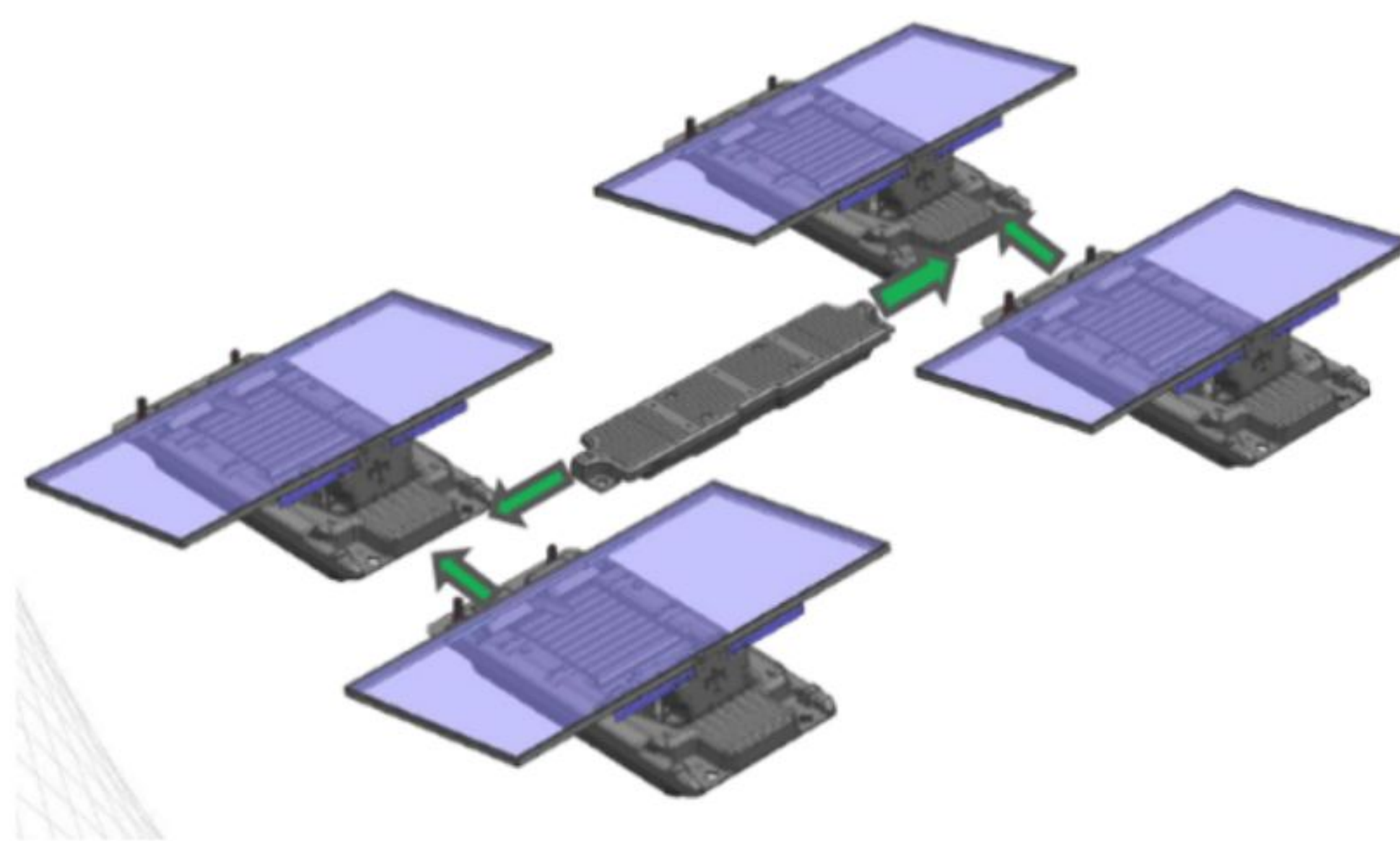
Floating System

✓ High Stability



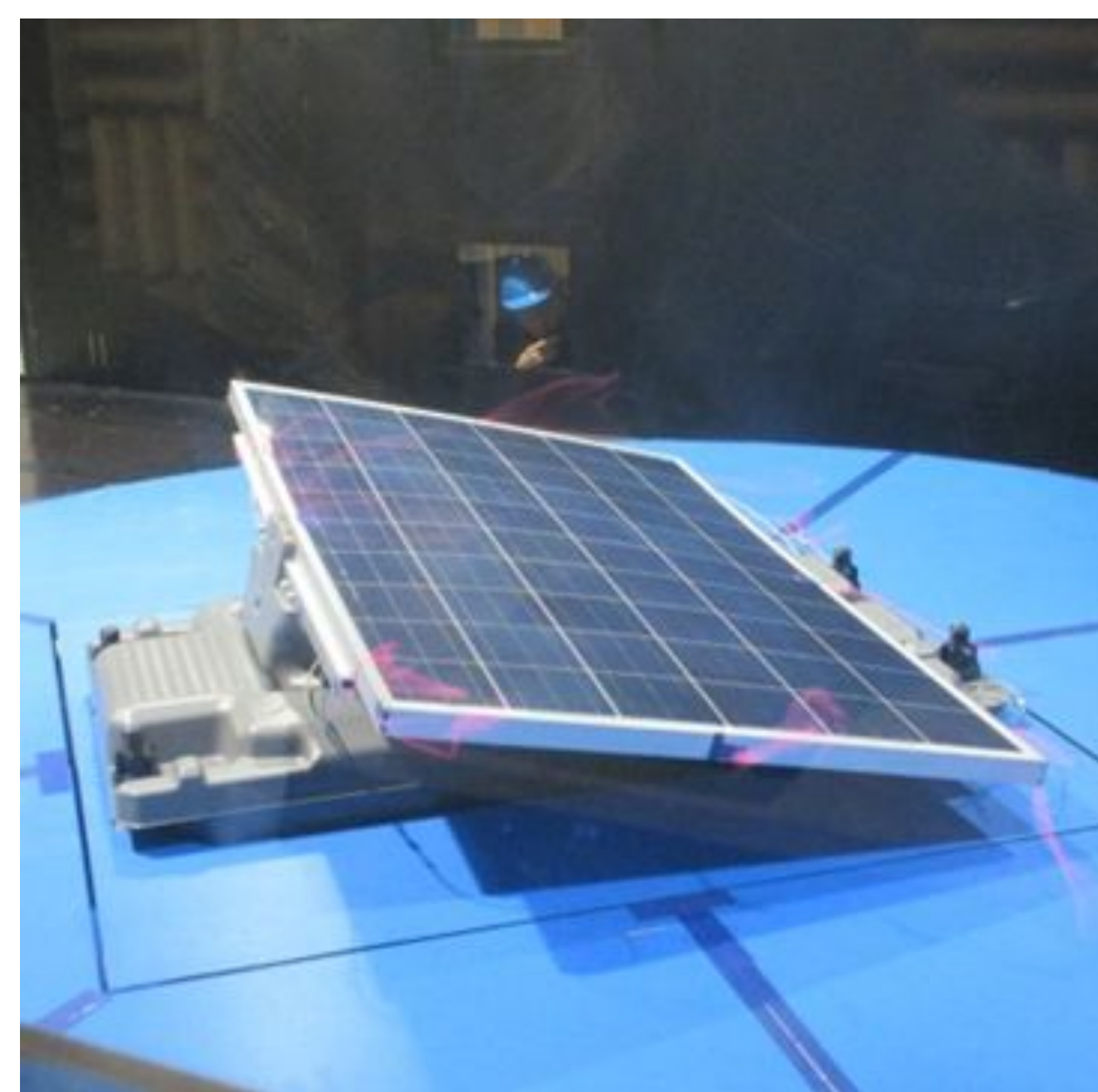
The Totora FPV float is a simple, durable, modular design that is responsible for holding the racking of the solar panels and is where the solar array attaches to the mooring line.

✓ Easy installation



Totora FPV utilizes multiple types of floats from Kyoraku's product line. Floats are set to hold solar panels at optimal positions for performance, and panels are held stable with a four retainer design.

✓ Wind tested to 60 M/S



✓ Long lasting durability

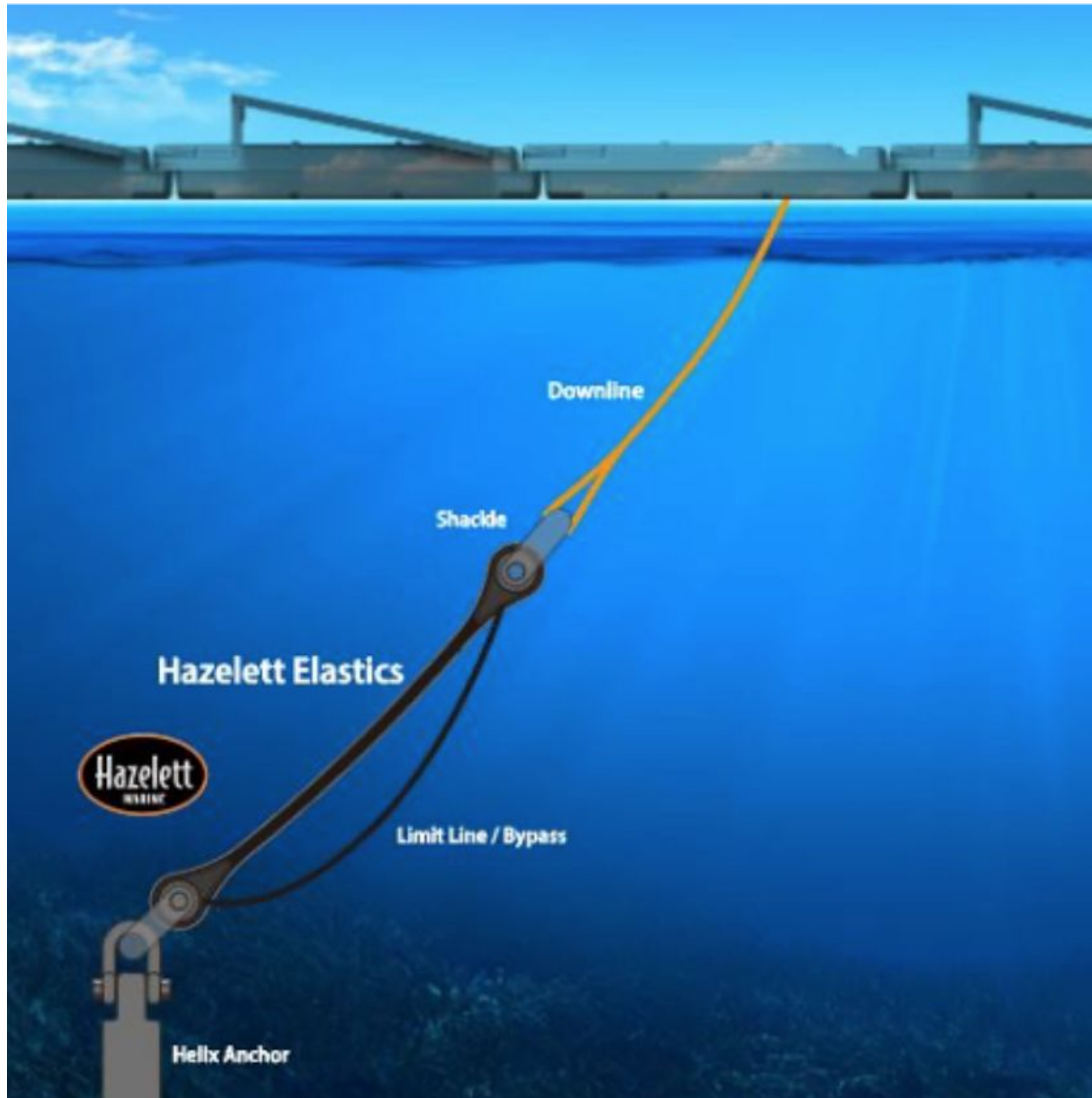
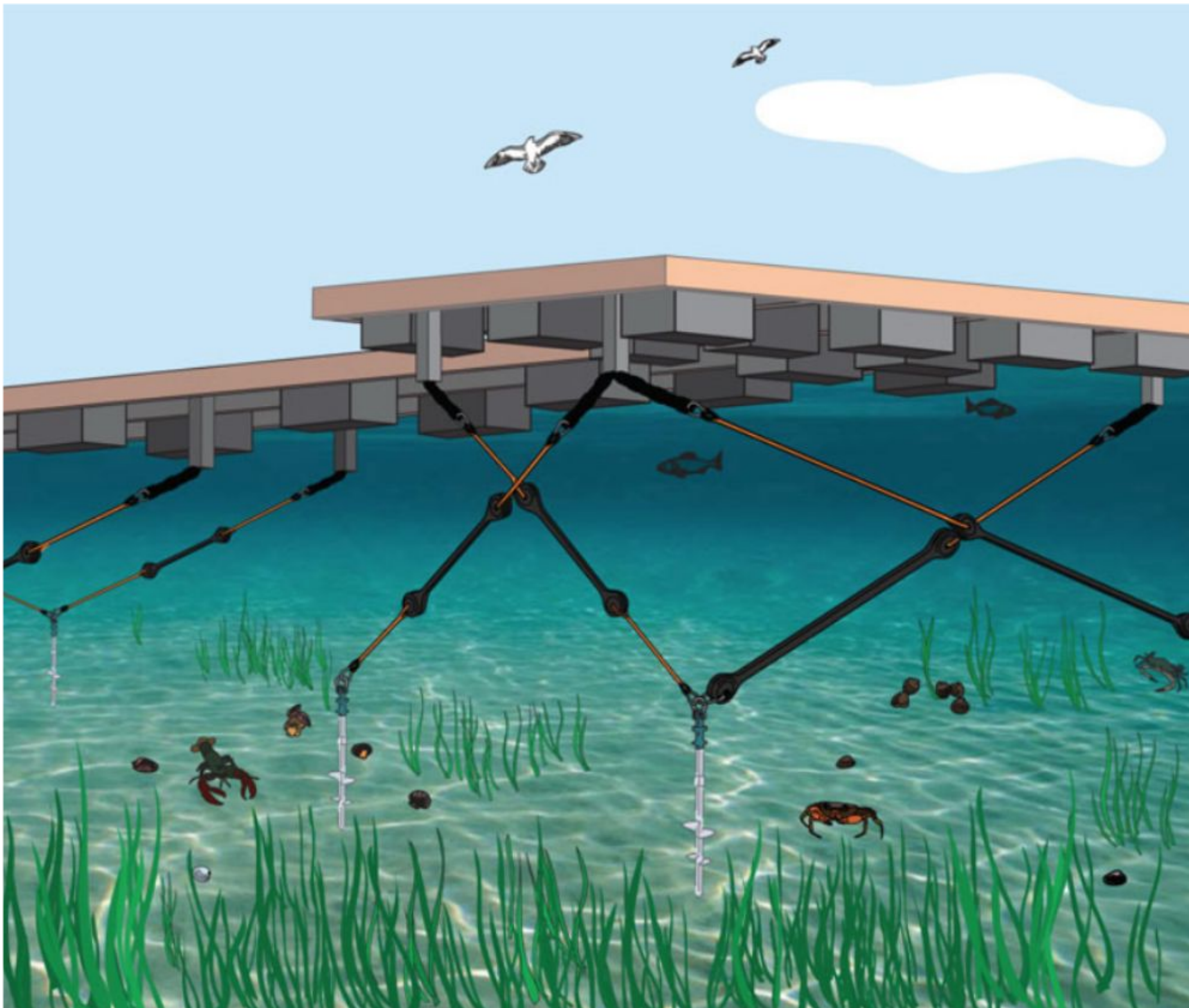


Passage floats allow access to the arrays without walking on the module floats and are used to run large cables from inverters to array blocks. Secondary floats are used to buffer the array.

Mooring & Anchoring System

Totora offers a customizable anchoring system using Hazelett Elastics, allowing for depth variation and longterm stability.

- Energy Absorption
- Point Load Reductions
- Wind Load Reductions
- Water Variation
- Increased Balance



Parts	Design Process
Elastics	Assess operating site conditions
Downlines	Analyze Load Calculations
Anchors	Mooring layout design
Anchor Truss's	validate maximum system stress



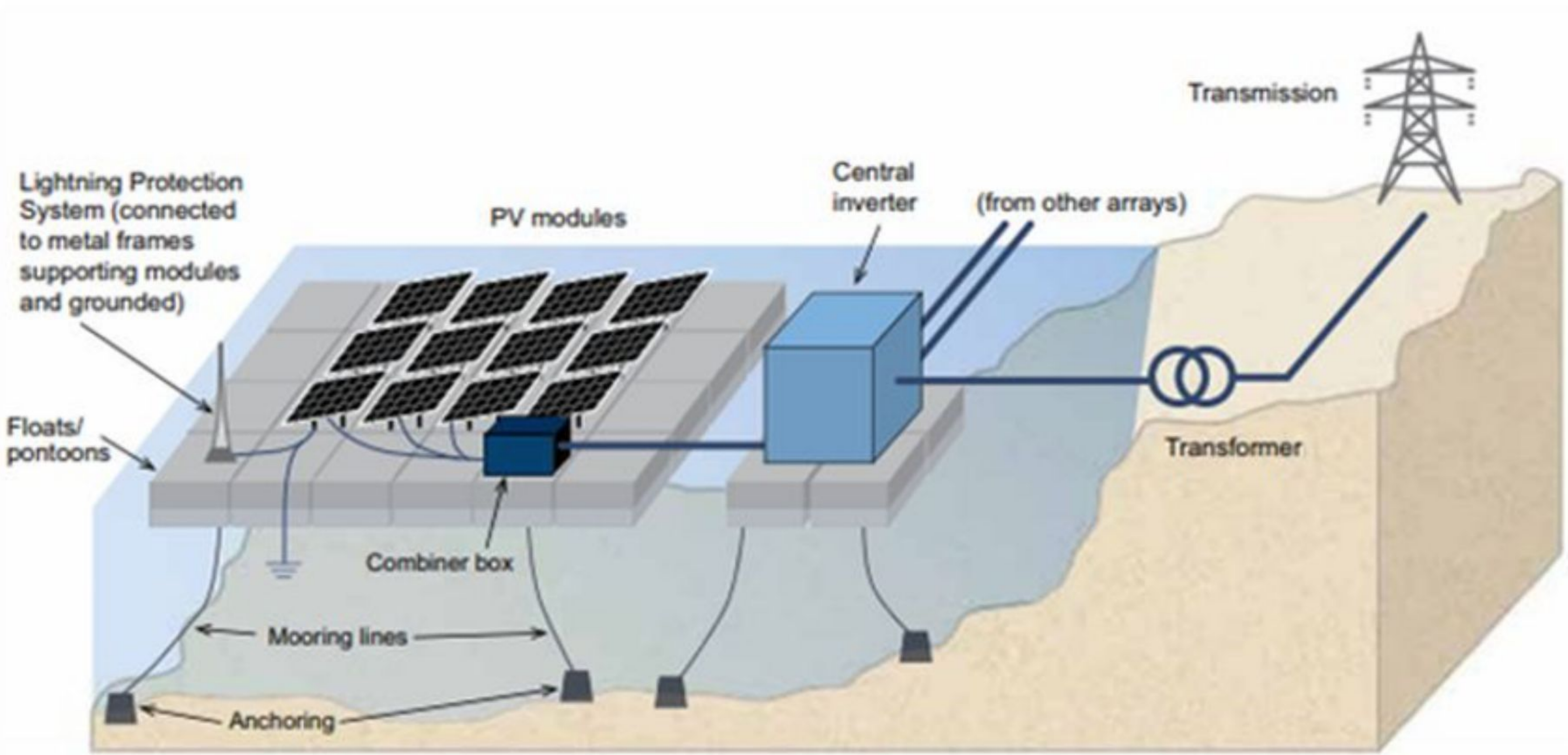
Elastics absorb dynamic energy from wind, waves, and currents to reduce point loads and provides the stretch to make up for depth variation.



The downline connects to the elastic and is sized based upon the water depth at its lowest point when the water is at its calmest.



Helix or screw anchors provide the least impactful and most precise manner to anchor an array.



Global Network

Totora's global partnerships offer an extensive network of global manufacturing partners, suppliers, and contractors.



Global Projects

Totora's partners have experience with utility scale FPV projects globally.

1.1 MW



990 kW



520 kW



1.1 MW



<https://www.totorafpv.com/>

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