LAMARU®

Solar energy on the water







Floating solar energy

At Landatu Solar we design and build floating solar systems.

Our innovative patented system LAMARU® makes it easy to build and anchor floating photovoltaic systems to generate clean energy and preserve our environment.

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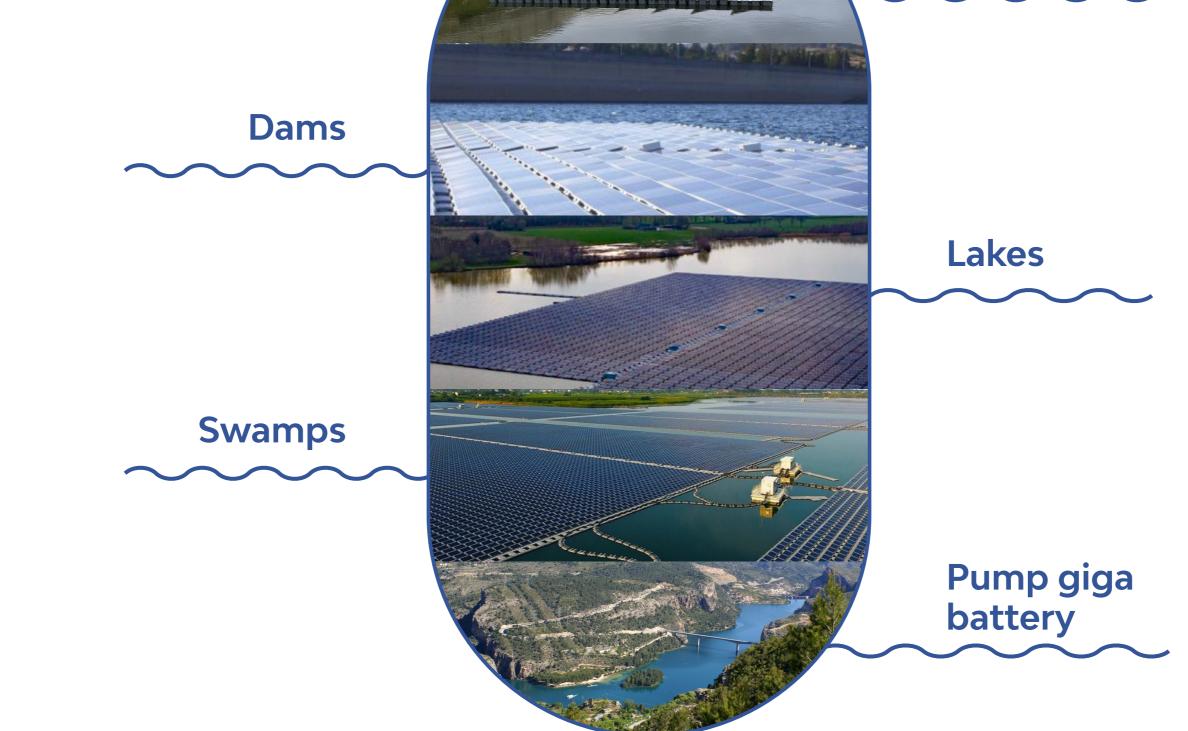


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Where?

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Landatu solar solutions are designed for installation in any space that has a body of water.

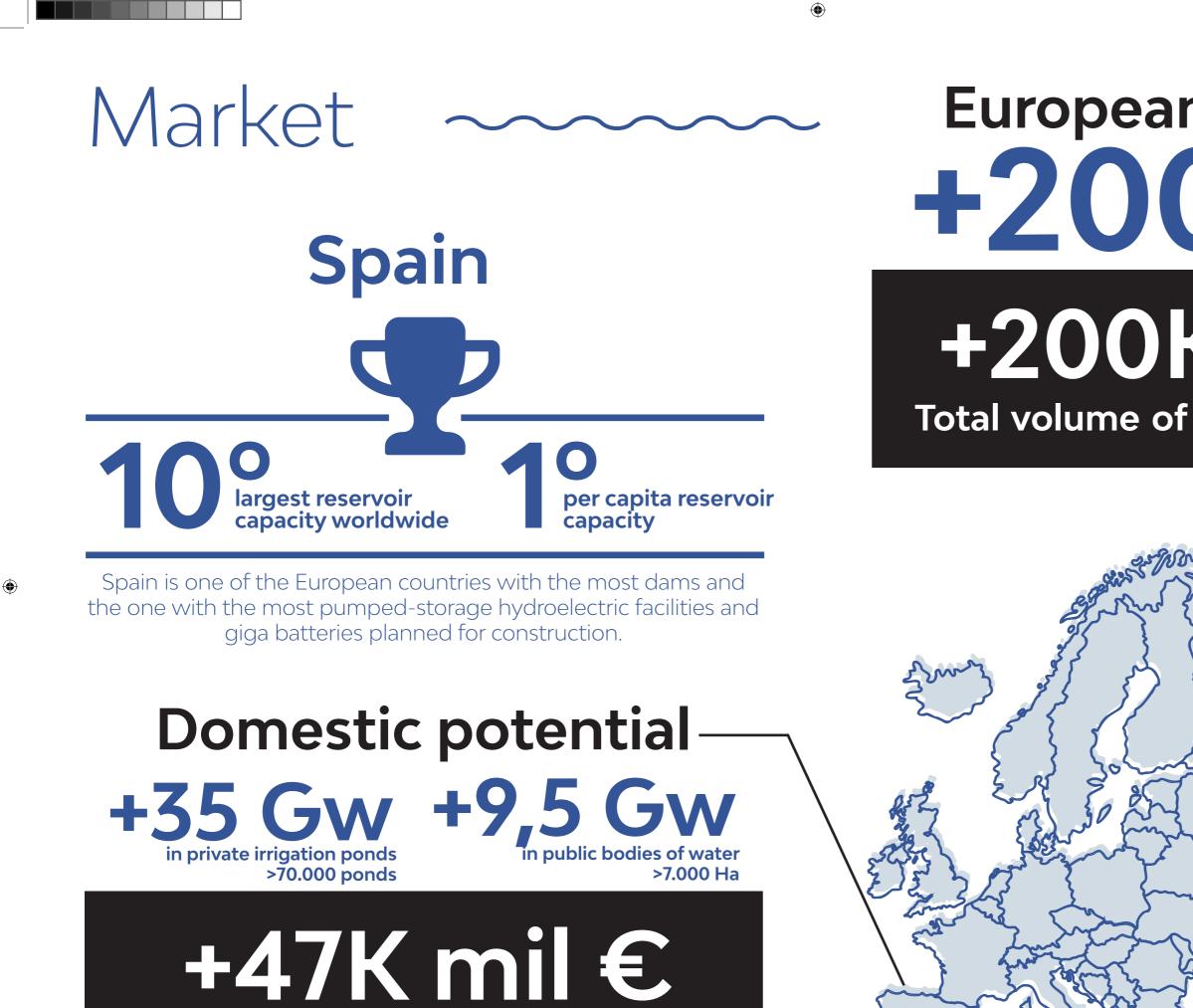








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Total volume of potential business





Projects



24,5 MW (2023)* Grafenwörth, Austria *planning stage

600 MW (2023)* **Omkareshwar Dam, India** *planning stage

MW (2023)* Torrelaguna Mini-Hydrolectric Plant, Madrid, Spain *planning stage



Advantages of solar energy

₽ ₽ Generate clean, unlimited and free energy for self-consumption



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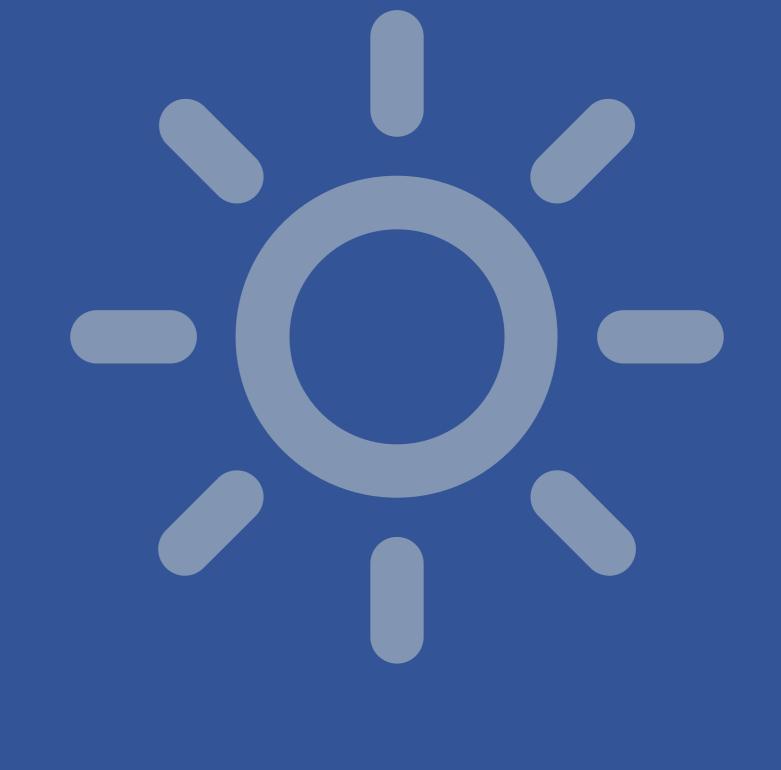
Carbon neutrality for your industry



Sell energy you don't consume to the grid



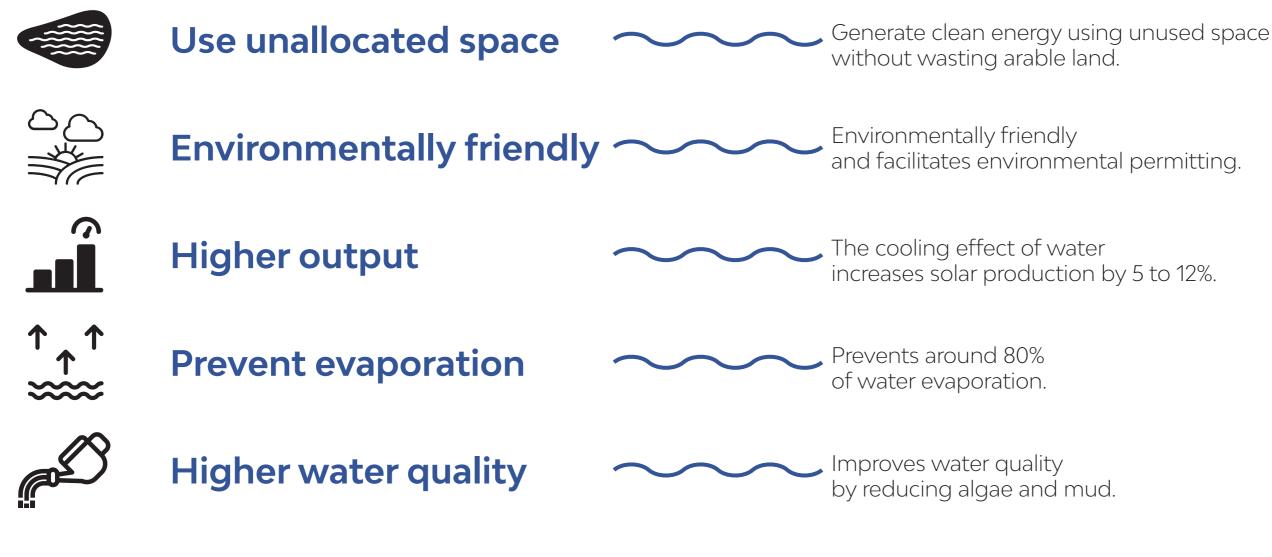
High profitability for your facilities



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Additional advantages of floating solar energy

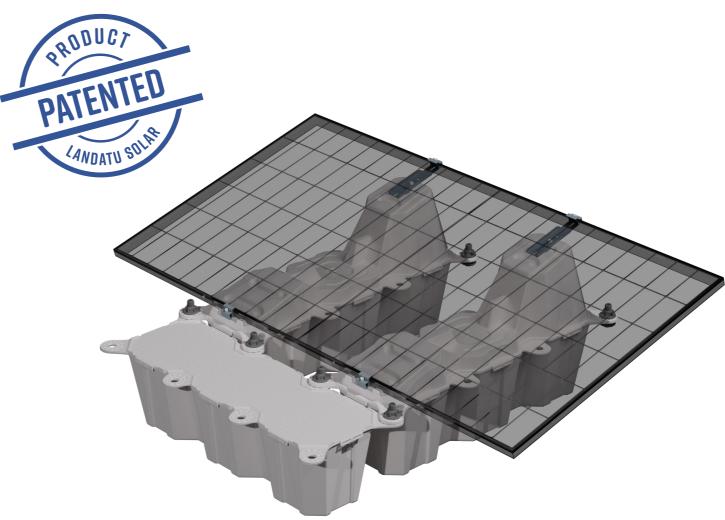


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Our Technology

LAMARU[®] patented floating and anchoring systems are designed to lower installation costs as much as possible and maximise energy production.



Optimised for aquatic environments

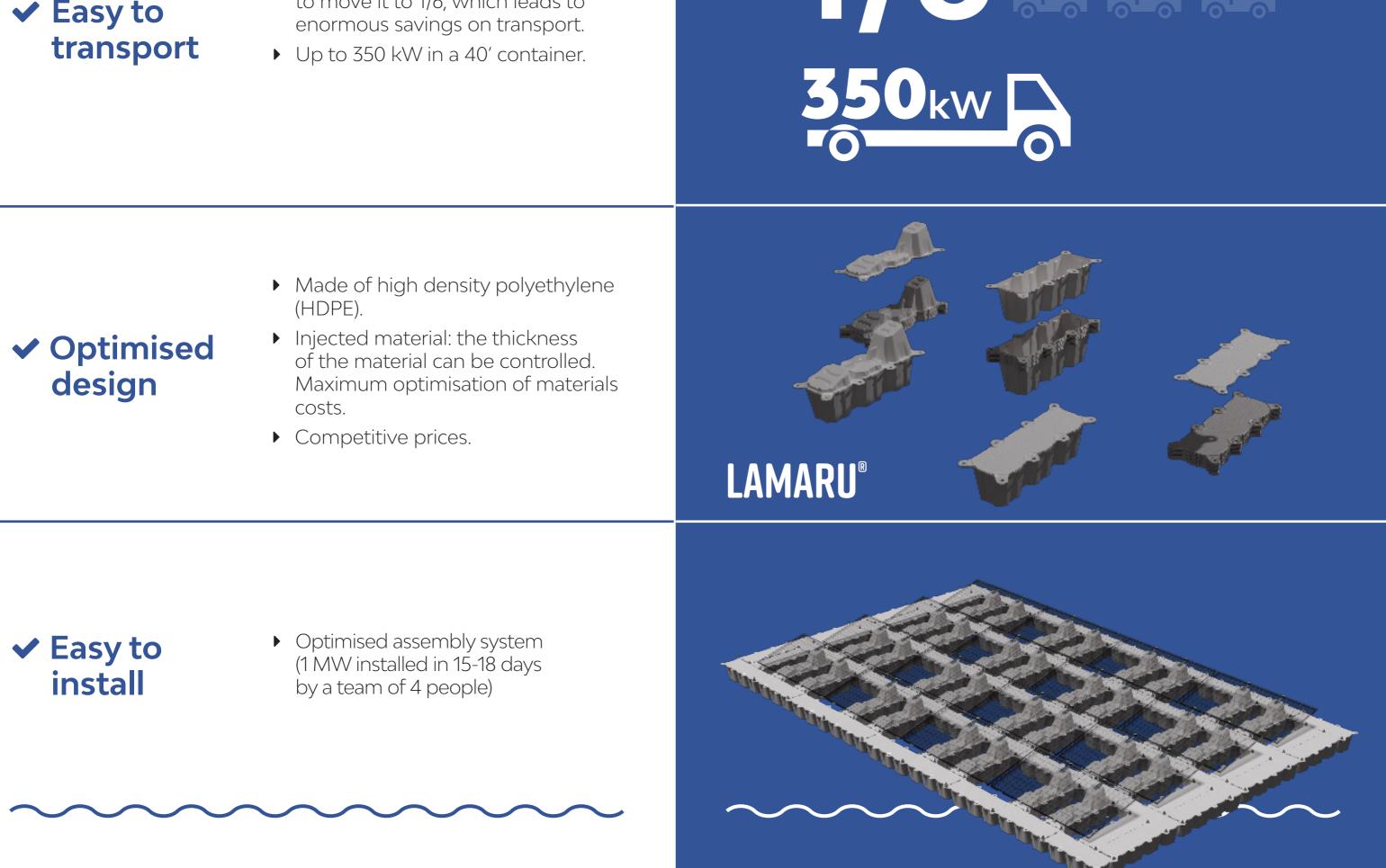
Adaptable to any system: Different water depths, currents, tides or gusts of wind.

✓ High compatibility LAMARU[®] floats are compatible with most photovoltaic panels in the industry.



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Easy to

▶ The stackable LAMARU[®] float system reduces the space needed to move it to 1/6, which leads to enormous savings on transport.

✓ Scalable

- Scalable to different sizes or pontoon islands (4 MW).
- Adaptable to project conditions Southern and east-west systems.
- Configurable maintenance corridor installation.
- Compatible with panels of different sizes and characteristics.
- Projects can be done in phases.

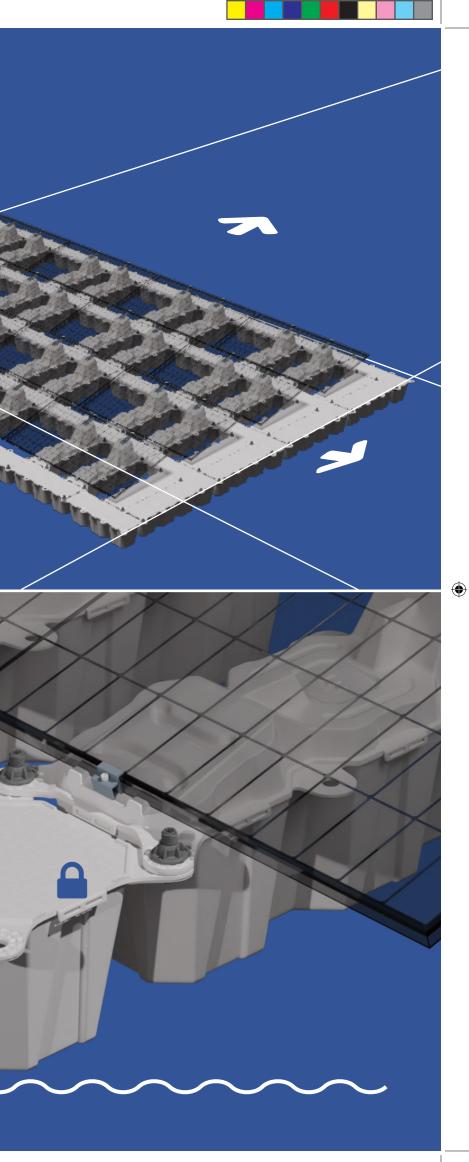


 Designed to keep water from getting into the floats.



✓ Safe

LAMARU®





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✓ 15° tilt

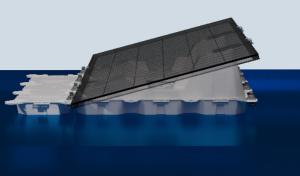
Our design with a 15° tilt improves the performance of your system because it can withstand strong gusts of wind.

✓ Optimal cooling

Our design allows good air flow between the panel and the float system so the modules are cooled properly. The panels clean themselves better with rain water.

✓ Quality and strength

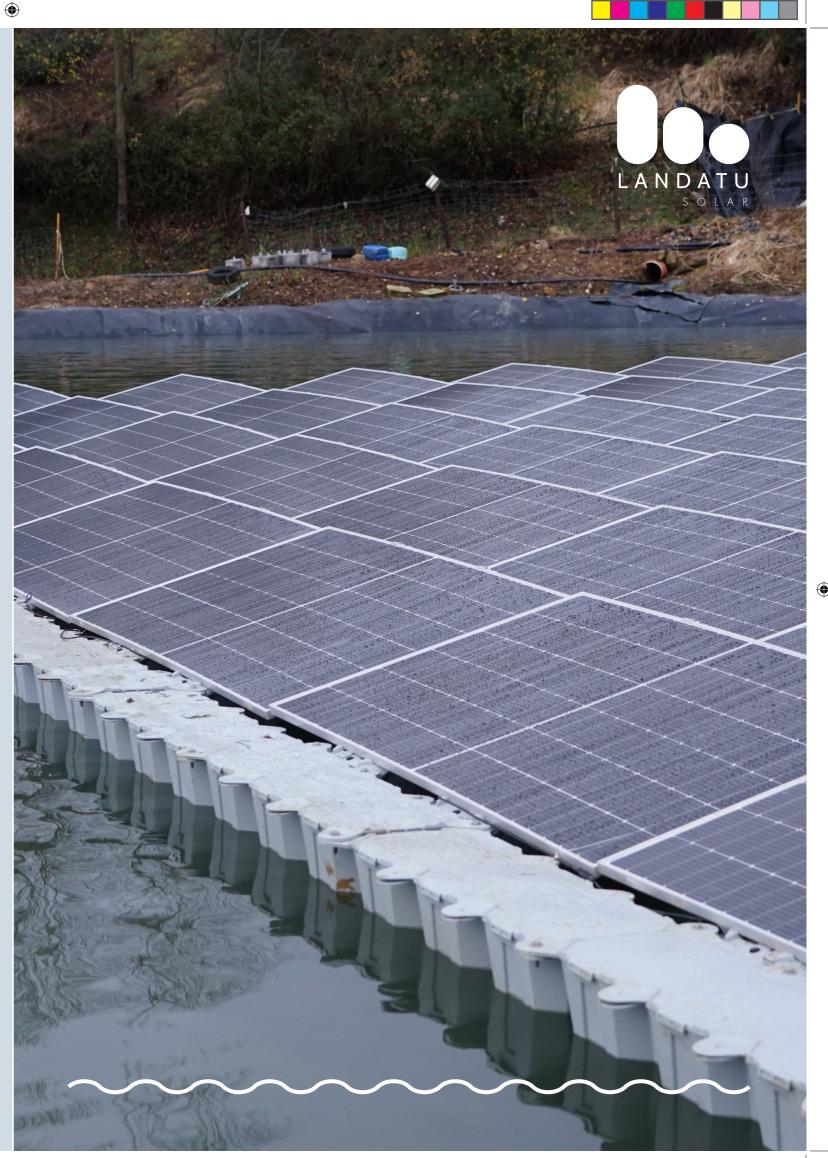
Made of the best plastic materials, they have a unique design that can withstand tough weather conditions like wind, humidity, extreme temperatures and waves.



✓ Safety

They have very high floatability and stability so the floats are perfectly adapted to the weight and requirements of every system. They have maintenance corridors to facilitate commissioning and maintenance of the system.

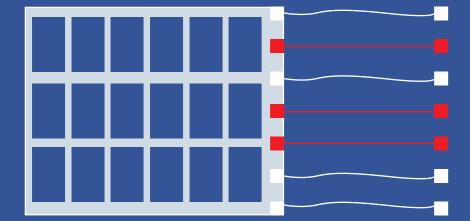
They have minimal wind resistance because of the design conceived to withstand adverse conditions.



Problems with anchoring systems

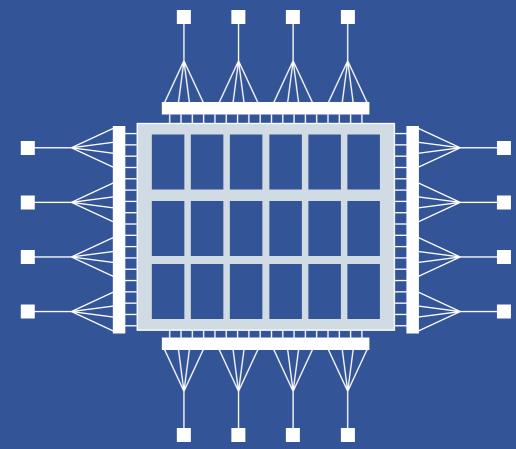
The system is redundant and has a high number of anchor points without using force.

- \mathbf{x} Non-constant voltage with uneven and imbalanced strength. \mathbf{x} The wiring exceeds its designed load
- which causes chain failures.
- \mathbf{x} Elastomers solve some of those problems, but the costs are very high,



Solar island with a modern anchoring system

 \mathbf{X} Only some cables are under stress.



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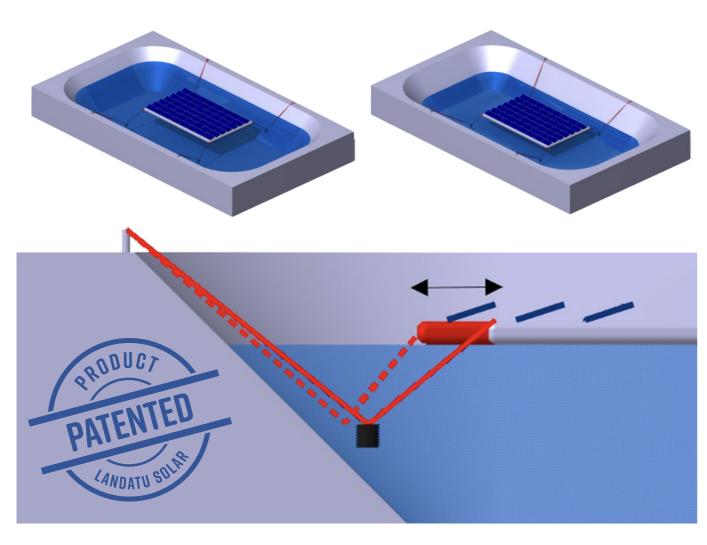
Our Solution: **Patented anchoring system**

It has an individual stress compensation system using a moving weight that moves freely on both ends

- The tension between the ends is always kept constant. \checkmark
- It guarantees the pond is balanced.
- Easy to install.

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- Low construction costs.
- Can withstand waves (< 15 m) and gusts of wind (< 160 km/h).



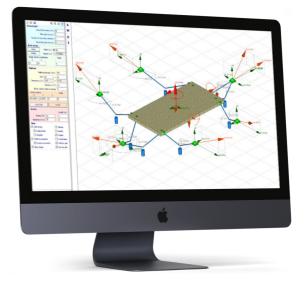
In-house software for calculating anchor points

A calculation system has been developed based on our anchoring systems.



- It solves a complex mathematical problem.
- can be known.
- like wind or waves, to the balance point.
- characteristics (strength, thicknesses, ballasts, etc.) more easy and agile.



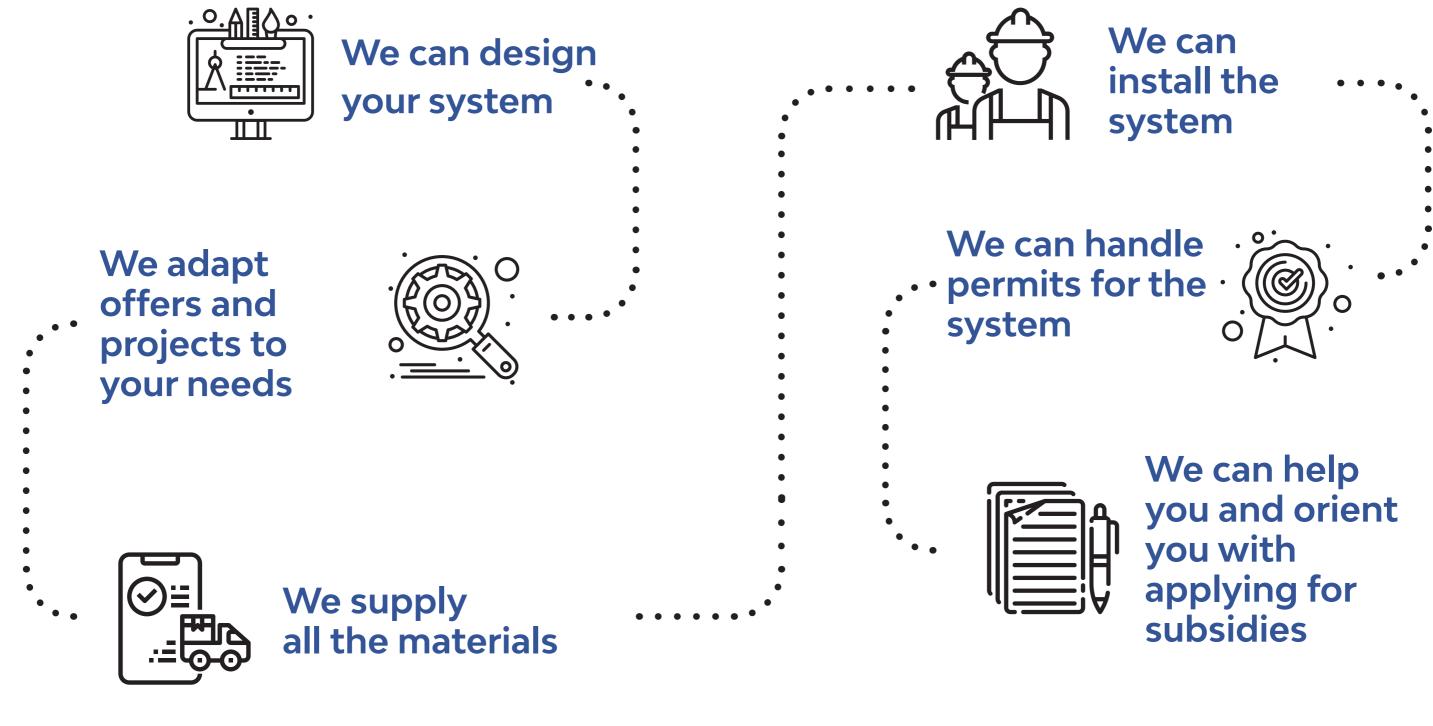


The exact behaviour of the float island when it is operating

It simulates the movement of the island under external loads,

It makes the design of the anchor point and manufacturing

Turn-key project



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99 Our mission is to promote clean energy generation, preserve scarce water resources and free up land for other uses.



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