



WALDEVAR

FLOATING PV

**SOLAR
ENERGY
REDEFINED
ON WATER**

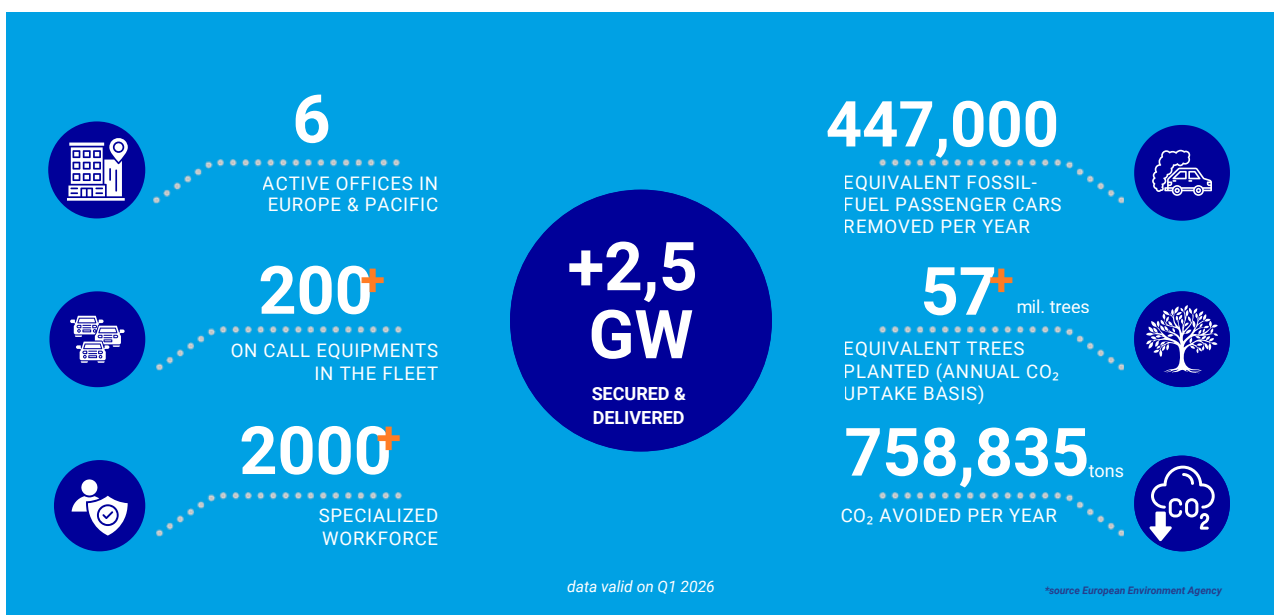
WALDEVAR

WE BUILD THE ENERGY OF THE FUTURE

Comprehensive turnkey solutions for renewable energy systems.

With over a decade of experience in the renewable energy market, WALDEVAR operates both **domestically and abroad**.

Our portfolio showcases numerous successfully commissioned projects, delivered with unwavering commitment to the highest quality and HSE standards. WALDEVAR's expertise enables to independently develop complete power system architecture, **from initial concept to grid connection**.





FROM CONCEPT TO COMPLETION, GROUND OR WATER. ONE TRUSTED PARTNER. WALDEVAR.

From concept to delivery, on land or water, we operate with one integrated team and full in-house capability.

We provide **a single point of contact** throughout the entire process, guaranteeing clarity, accountability, and streamlined communication. No fragmentation. No outsourcing gaps.

By integrating expertise, certification, and execution under one company, we optimize performance, reduce operational risk, and maximize OPEX efficiency.





THE NEXT GENERATION OF ENERGY IS BUILT ON WATER.

Floating photovoltaic (FPV) systems offer a powerful opportunity for businesses to lead in sustainable innovation. By transforming **water surfaces into clean energy hubs**, FPV maximizes space efficiency and unlocks new revenue streams without competing for valuable land.

WALDEVAR is one of the companies leading the way in this field, pioneering the development of a dedicated FPV division and establishing its own manufacturing facility. Driven by innovation and vision, we are shaping the future of renewable energy on water



WHY FPV PROJECTS POWERED BY WALDEVAR FLOATING PV?

Panel performance are enhanced by water cooling effect, boosting energy output and returns. FPV also reduces water evaporation and algae proliferation, making it a **smart long-term investment**. For forward-thinking enterprises and governments, FPV isn't just green, it's a strategic advantage in a competitive low-carbon economy.

Many still see FPV through outdated myths. Yet today's technology proves it's stable, efficient and economically smart. Let's talk facts!



RELIABLE

Modern FPV systems are built for strength, with advanced anchoring that ensures stability in any condition.



EFFICIENT

Cooler water boosts panel performance, often exceeding land-based PV efficiency.



COST-EFFECTIVE

Higher upfront costs are offset by long-term savings in efficiency, land and water use.



ECO-FRIENDLY

FPV systems can coexist with aquatic ecosystems, helping to reduce algae growth while supporting healthier fish habitats.



SCALABLE

FPV is scalable and suitable for a wide range of water bodies, from reservoirs to industrial ponds.





EUROPE'S **LARGEST** FPV FACTORY

Strategically positioned along Bucharest's main Ring Road, on a plot of 40,000 sqm, it offers exceptional logistic advantages.

In order to reduce its carbon footprint, the factory will be powered by a 2.6 MW photovoltaic park and backed by an advanced Battery Energy Storage System (BESS), reinforcing our commitment to sustainable energy practices.

Our factory will use state of the art blow-molding and injection equipment.

The factory will serve as an innovation hub, where our specialists will deliver services including environmental impact assessments, bathymetric and geotechnical analyses, meteorological and wave forecasting and tailored anchoring solutions.

WALDEVAR **represents your one-stop shop for cutting-edge floating PV**, ground PV, rooftop PV design and delivery, execution and operation & maintenance all in one place.





**600
MW**

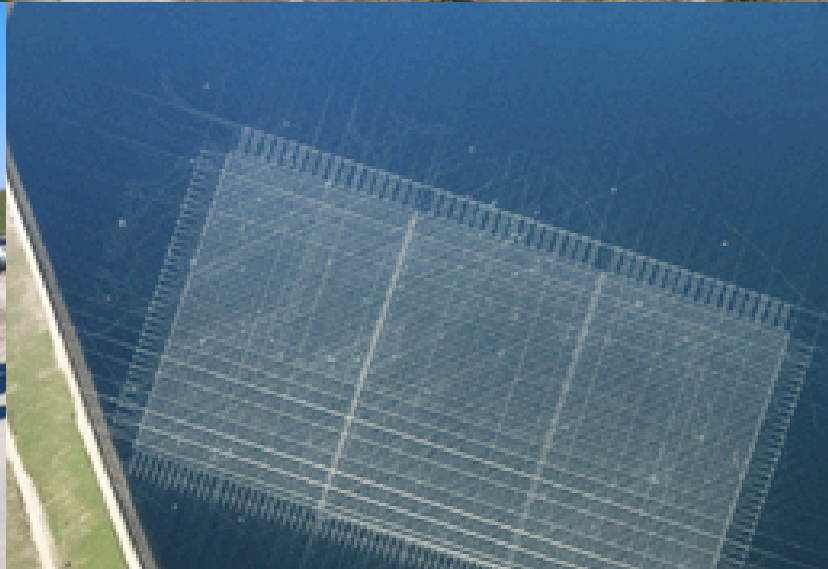
**OF SCALABLE ANNUAL
PRODUCTION CAPACITY**



10 Mw

PROJECT NUFARUL, OLT RIVER, ROMANIA

FLOATYNG PARK ON A
HYDROPOWER RESERVOIR



THE MOST COMPLEX FPV INSTALLATION
IN EUROPE ON A HYDRO DAM DEVELOPED
UNDER HIGHLY DEMANDING
ENVIRONMENTAL AND HYDRAULIC
CONDITIONS.





14 Mw

VINNEUF, FRANCE

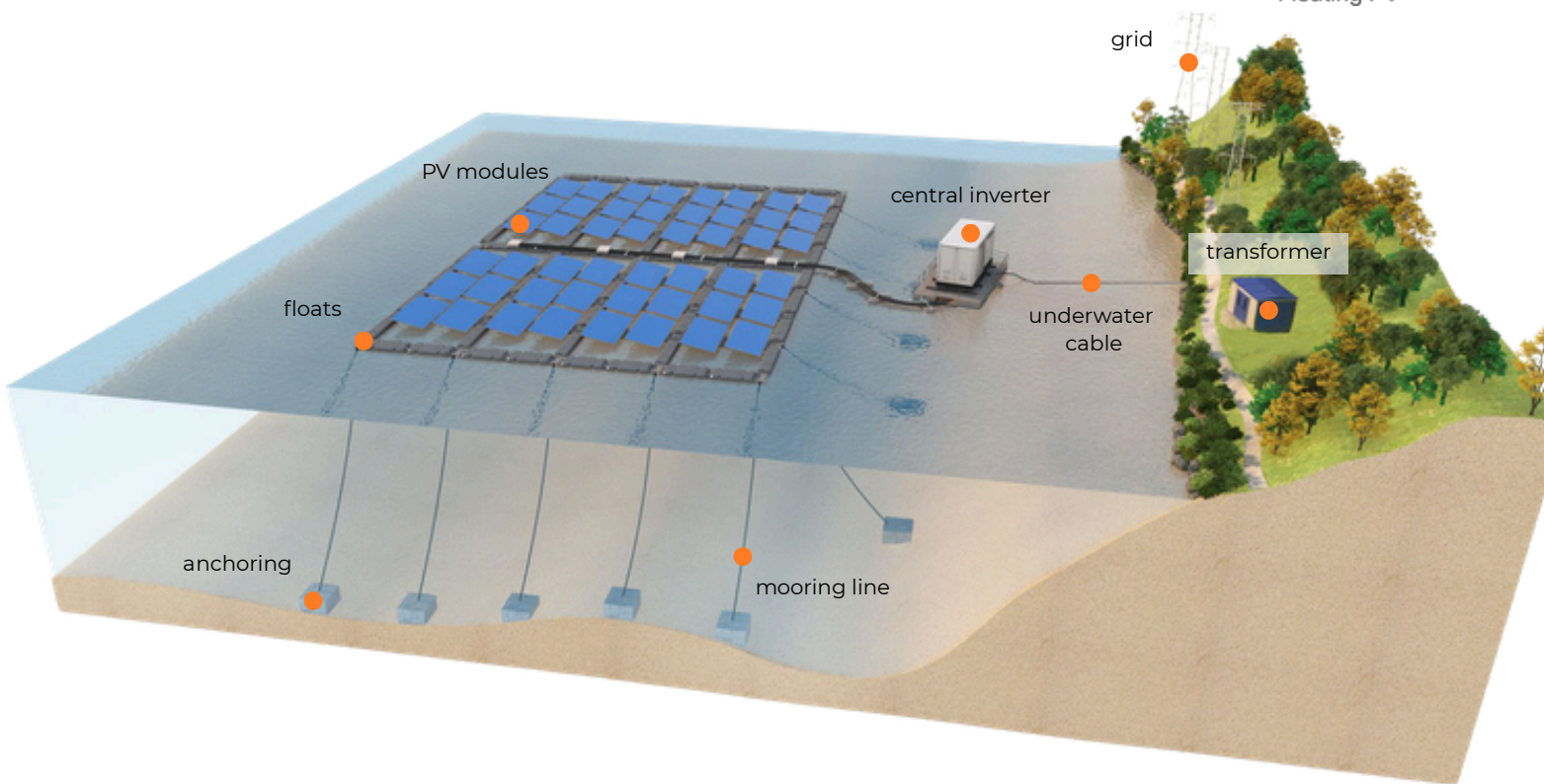
FLOATING PHOTOVOLTAIC PARK
ON A GRAVEL PIT



CONSTRUCTION SITE
ORGANIZATION

Stage 1





FACTORS IN SELECTING A WATER BODY FOR A FLOATING SOLAR PHOTOVOLTAIC PLANT

FACTOR	HIGH PREFERENCE	LOW PREFERENCE
LOCATION	<ul style="list-style-type: none"> Near populated regions Easily accessible by road Secured Near key production points to enhance logistical efficiency 	<ul style="list-style-type: none"> Remote places with high transportation cost
WEATHER AND CLIMATE	<ul style="list-style-type: none"> High solar irradiation Little wind or storms Calm water In a low-rainfall area where sustainable water management is critical 	<ul style="list-style-type: none"> Cold regions below 55° latitude High winds and risk of natural disasters such as typhoons and tsunamis High water currents Drought events that lead to exposure of water bed
TYPE OF WATER BODY	<ul style="list-style-type: none"> Hydroelectric power generation reservoirs Mining support reservoirs Gravel pit Industrial process water reservoirs Cooling water reservoirs for power plants Multi-purpose Industrial supply reservoirs 	<ul style="list-style-type: none"> Tourist or recreational sites



WHY INVEST IN FLOATING PV?

Floating photovoltaic systems turn water surfaces into clean energy sources, helping preserve land for agriculture and development. Thanks to the cooling effect of water, they offer higher efficiency compared to ground-mounted systems, while also reducing evaporation and protecting vital water reserves.

With a minimal environmental footprint, floating PV requires no land excavation or deforestation and installations are fully reversible. Systems are designed for durability, with **a lifespan of up to 25 years**, ensuring long-term energy production and stable returns.

In the United States, depending on factors like location and climate conditions, **1 MWp of floating PV can generate up to 1.5 MWh/year withstanding 1 million CO2 emissions per year.**

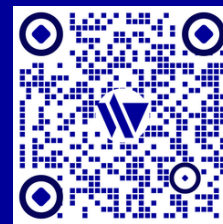
For example, 1 MW installed on Lake Mead can produce approximately 1,800 MWh annually.

A smart, scalable solution for a sustainable energy future.

WALDEVAR is your **one-stop shop for cutting-edge FPV** design, delivery, execution and O & M.

Floating solar technology is the most efficient and forward-thinking way to turn water surfaces into powerful business assets.





WALDEVAR

FLOATING PV

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