



The future of agriculture? Solar energy combined with aquaculture results in profits and benefits for the planet!

SOLAR FOR FISH & SHRIMP HATCHERIES



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5 to 7 -Year Return on Investment, 20+ Years of Pure Savings – Solar is Your Premier 'Yield'!”

01

Cost Savings on Electricity

Shrimp hatcheries require continuous power for aeration pumps, water circulation, lighting, and temperature control. Solar power reduces dependence on grid electricity, leading to lower energy bills. The Net Metering Scheme permits the sale of surplus solar energy back to the grid.

02

Reliable & Uninterrupted Power Supply

Power outages can be disastrous for hatcheries, leading to oxygen depletion and shrimp mortality. Solar + battery storage ensures 24/7 power, preventing losses due to grid failures.

03

Reduced Carbon Footprint & Environmental Benefits

Solar energy is clean and renewable, reducing reliance on diesel generators or fossil-fuel-based grid power. Helps shrimp farms meet sustainability certifications (e.g., ASC, BAP), improving marketability.

04

Long-Term Financial Gains

Solar panels have a 25+ year lifespan with minimal maintenance. Payback period is typically 4-7 years, after which electricity is almost free.

05

Improved Energy Independence

Reduces vulnerability to rising electricity prices and fuel cost fluctuations. Ideal for remote hatcheries with unreliable grid connections.

06

Enhanced Hatchery Productivity

Stable power ensures consistent water quality, aeration, and temperature control, improving shrimp survival rates. Solar can also power automated feeding systems & monitoring devices.

SOLAR IN AQUACULTURE POND

01

Reduced Energy Costs

Solar panels generate free electricity to power aerators, water pumps, and feeding systems, reducing reliance on expensive diesel generators or grid power. Farmers can sell excess electricity back to the grid (if policies allow), creating an additional income stream.

02

Improved Water Quality & Fish/Shrimp Health

Solar panels partially shade the pond, reducing water temperature and evaporation, which is crucial in hot climates. Cooler water holds more dissolved oxygen, improving fish/shrimp growth and survival rates. Less algae blooms due to controlled sunlight exposure, preventing harmful fluctuations in water quality.

03

Increased Land Use Efficiency

Instead of using separate land for solar panels, farmers dual-use their ponds, maximizing space efficiency. Floating solar panels don't compete with agricultural land, making them ideal for small-scale farmers.

04

Protection Against Extreme Weather

Solar panels can reduce water surface exposure to heavy rain or hail, protecting aquatic species. In hot climates, shading prevents overheating, which can stress or kill fish/shrimp.

05

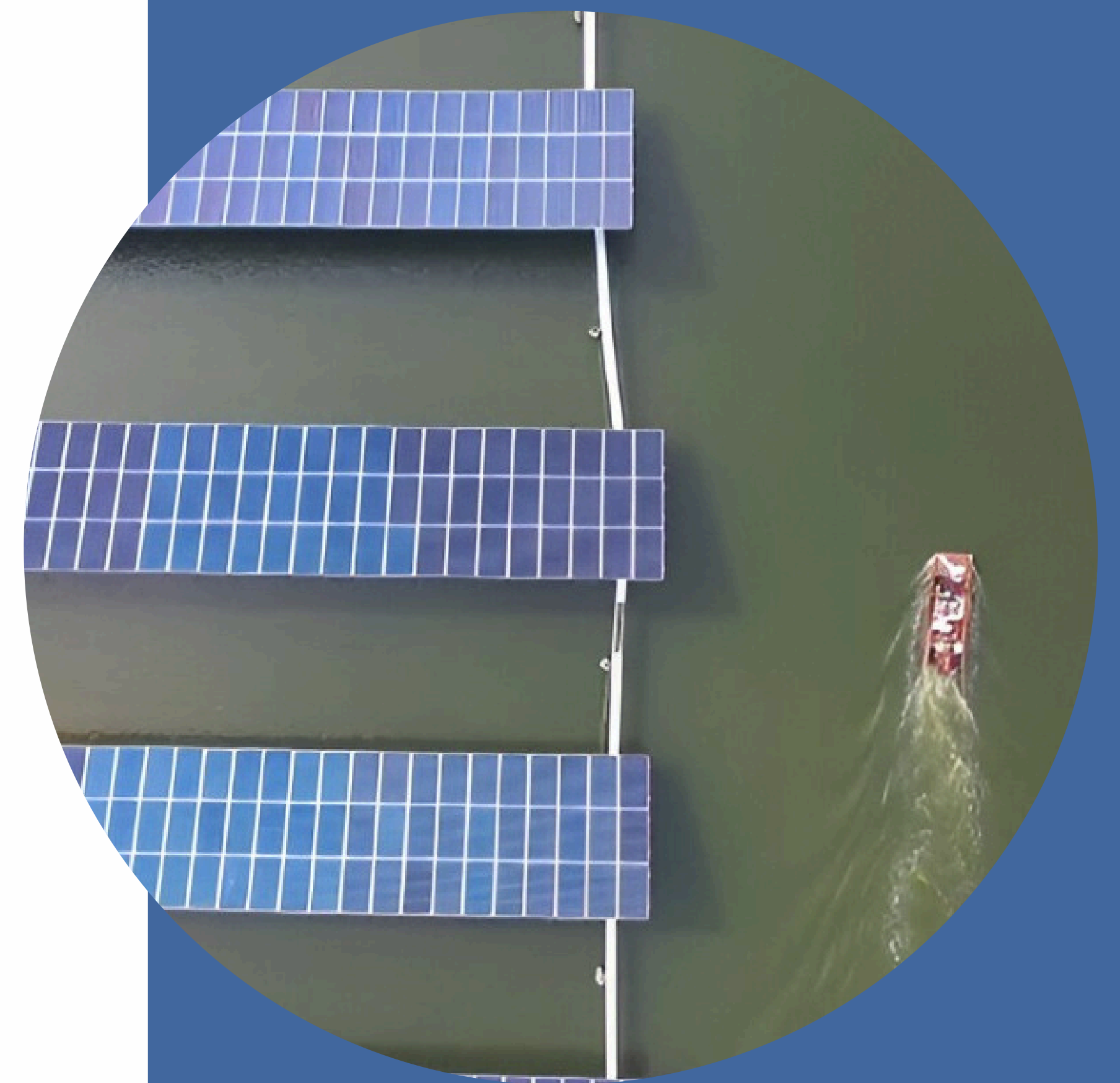
Longer Lifespan of Solar Panels

The cooling effect of water increases solar panel efficiency and extends their lifespan compared to land-based systems.

06

Environmental Benefits

Reduces carbon footprint by replacing diesel-powered equipment. Prevents water loss from evaporation, conserving resources. No chemical runoff compared to traditional energy sources.



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**Boost Fish/Shrimp
Yield by 15% Using
Solar Shading in
Ponds – No Additional
Feed Needed!**”

SOLAR WITH AQUACULTURE



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