

ENERGY MINER



ENERGY FISH

The future of renewable
energy lies in the rivers

The school of Energyfish

The inconspicuous powerhouse

The Energyfish operates in groups, forming a school of Energyfish. These Schools are connected to a landside grid connection point, feeding directly into the local grid. This allows for considerable power generation – inconspicuous yet powerful.

1,5 GWh/year

One Energyfish unit produces an average of 15 megawatt-hours per year. A school of 100 Energyfish can generate an annual yield of up to 1.5 gigawatt-hours – which is equivalent to supplying approximately 300 households.

-1.300 t CO₂/year

A school of Energyfish consisting of 100 units saves approximately 2,300 tons of CO₂ emissions per year. This is equivalent to offsetting the annual emissions of around 1,700 small cars.

10 – 20 years

Engineers have put special emphasis on ensuring a long lifespan for the small hydropower plant. The projected lifespan of an Energyfish exceeds 10 years.

What is the Energyfish by Energyminer?

The Energyfish is a novel system for electricity generation that operates in perfect harmony with nature. **This innovative and highly sustainable energy source produces electricity in a river 24 hours a day and has the capacity to supply entire communities with energy.** What sets it apart is that the energy source is almost entirely submerged underwater and is barely visible.



This micro-hydropower plant operates in complete silence and has been designed to pose no threat to fish or aquatic life. The system is capable of providing electricity in all weather conditions, making it a baseload power source. **This means it offers 100% clean energy available 24/7, generated locally throughout the year.** Each Energyfish unit directly feeds its electricity into the local low-voltage grid. The Energyfish is 100% flood-resistant, built to submerge itself and continue to produce electricity. Additionally, it requires minimal maintenance and is designed for maximum efficiency.



Local & Baseload-capable

Energyminer represents a local electricity production system that is baseload-capable, eliminating the risks of blackouts or overproduction. The electricity generated is decentralized and directly fed into the low-voltage grid.



Fast & Easy

The installations are simply suspended in the river and anchored in the riverbed, without the need for concrete, dams, or heavy construction. The power plant can be approved and installed within a few months, without incurring any costs for the municipalities.



100% Clean & Safe

This mode of electricity production has no negative impact on the river ecosystem. The technology is completely fish-friendly, and there is no danger during flood events. The installations are monitored 24/7 to ensure safety and performance.

Efficient & secure This is how the hydropower system functions

The Energyfish is a compact hydrokinetic underwater power plant specially designed for river applications.

It incorporates a robust and highly efficient turbine system that harnesses the river's flow velocity to generate power.

To ensure the safety of aquatic life, scientists have carefully developed a fish protection system that effectively prevents harm to fish. In case of high water or ice flow, the Energyfish automatically submerges to the riverbed, guaranteeing its own safety while still producing electricity.

These Energyfish units are constantly monitored by an intelligent monitoring system and have been engineered to prevent algae or other floating objects in the river from getting entangled. Water sports enthusiasts face no risk of injury or disturbance from these installations as Energyfish can be easily pushed down or aside if needed.

Independent
provisions for
entire
communities





The core team Chantel Niebuhr, Dr. Georg Walder und Dr. Richard Eckl (from left to right)

We look forward to hearing from you!

We are an experienced team of founders who possess all the necessary expertise in electrical engineering, mechanical engineering, and water engineering. With the Energyfish, we aim to make a significant contribution to the energy transition.

If you have any questions or are interested in our Energyfish, [please don't hesitate to contact us!](#)

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