




## **NEXT GENERATION OF THE FLOATING HYDROELECTRIC POWER PLANT SUCCESSFULLY IN USE IN GERMANY**

Aqua Libre Energieentwicklungs GmbH (ALEE) as the developer and builder of the Stromboje will in future offer this unique product as  <http://www.powerflux.com> worldwide!

The new generation of buoys is now being used for the first time in St. Goar on the Middle Rhine.

It took a long time, but now the new generation of the floating hydroelectric power plant is in use for the first time. No enduring construction sites, no fish ladders, no complaints from residents. In Germany, the first powerflux® power-buoy was deployed in the Middle Rhine in December. The buoy is serially produced in Austria and so on site it only was to be anchored at the bottom of the river. The device constantly converts the river's kinetic energy with maximum efficiency into electrical power. Day and night. Even during high water.

Since the final grid connection has yet to be completed by the grid operator, a provisional connection was established at short notice, which not only allows the newly developed electrical engineering and control technology to be successfully tested, but also documents the uninterrupted generation of electricity. Even in the case of a sudden high tide, the buoy produces trouble-free and proves its resilience and stability in extreme situations.

In the next few weeks after the final connection to the grid, site-specific adjustment and optimisation work will be carried out.

The operator, MittelrheinStrom UG (haftungsbeschränkt) & Co. 560 KG, has big plans and is excited about this first deployment: "16 buoys will be built at the site, giving us the opportunity to contribute to the energy transition in Germany".

Powerflux® is the patented next generation of Aqualibre power buoys, which have been developed in Austria for several years. This progression impresses not only with its improved design and completely new control technology, but also with a diffuser made of steel, making it the only serially manufactured hydroelectric power plant.

The worldwide potential of the Austrian floating power plant powerflux® is enormous, as this technology can be the key for deeper penetration of hydropower as the most efficient renewable energy source - especially in places where traditional river power plants are no longer approved or inefficient.

Due to the permanent and constant generation of electricity, power buoys are suitable for the base load supply of settlements and even entire regions as well as a replacement for diesel generators in remote areas. In addition, the buoys float almost invisibly under the water surface at the edge of rivers and therefore do not disturb shipping routes, fish or people.



Powerflux® buoys are a key technology of the 21st century and will therefore also be presented at the World Expo in Dubai from October 2021 to March 2022 at the Austrian pavilion.

Margarethen am Moos, March 19th 2021 (2894 characters, pictures at [office@powerflux.com](mailto:office@powerflux.com))

### **Entwickler und Hersteller der powerflux® Strom-Boje**

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Entwicklung der Strom-Boje seit 2006. Die Version 3.2 ist der aktuelle Stand der Serie 3 mit dem Rotor von 2,5 m Durchmesser und einer Leistung von 70 kWp.

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### **Betreiber des powerflux® Parks**

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Die Fa. MittelrheinStrom UG & Co. 560 KG wurde 2018 für die Entwicklung und Realisierung des Strom-Bojen-Parks bei St. Goar gegründet.

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