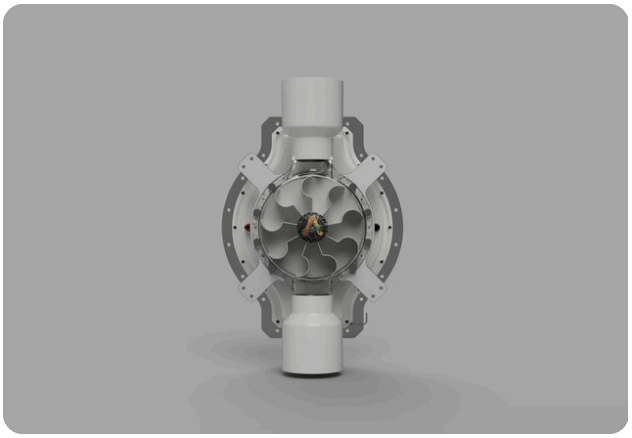
Water Power

◷ **Available Fall 2028**

The ANEW micro-hydro water turbine — a rare-earth-free generator that runs on falling water around the clock, designed to sync with virtually any load. Available in 12 colors, with an onboard communications module and its own customer portal.



Performance & Build

Type	Inline micro-hydro turbine
Code name	“Water Bug”
Runs on	Falling / flowing water — low head
Duty cycle	24/7 baseline generation
Rated output	up to 1.5 kW
Generator	Same machine as the ANEW wind turbine
Height	2.00 m (inline, pipe-to-pipe)
Structure	Polished marine-grade stainless steel
Magnets	Ferrite — rare-earth-free, no neodymium
Targeted service life	50 years

Environment & Load

Weatherproof rating	NEMA 4X
Noise	Below conversation level — a quiet hum of moving water
Physical Unclonable Function identity	Hardware-anchored ID — fixes the unit to its funding asset for credit trading
Water ingress	Designed for full submersion
Aquatic life	Screened intake — keeps fish clear of the runner
Load sync	DC · battery · AC mains · 3-phase
Onboard battery	Optional — ANEW solid-state Power Pack, factory-configured
Output	Steady, independent of flow rate
Monitoring	Self & environment, real-time
Software / hardware	Open-source
Accent lighting	Programmable theme lighting — 256 colours, music-reactive or on cue

Connectivity	4G Cellular · Wi-Fi · Bluetooth · Zigbee

Who It Protects

Fish	Adults and fry stay clear of the wheel
Amphibians	Frogs & the creek-edge crowd
The stream	No dam, no full diversion
The machine	Debris screened out, too
Coverage	Screened intake & sealed runner

Ways to Own It

Own	Buy outright — funding offsets the cost
Rent	Power without the purchase
Payback	Calculated for your site before you commit
Warranty	12 months — parts & labour
Extended	10-year parts & labour — typically 10% of system cost
Repairs	~30-minute field swap of your unit
Carbon Calories	Live CO_2-avoided counter, per unit

> **Your Project Manager, Included Every turbine comes with a remote project manager — a real guide who stays with your project and helps you navigate regulatory compliance as it moves forward, from permits to grid connection. Need someone standing next to you? On-site project managers are available upon request. Meet Your Project Manager → The Communications Module Every turbine is online, secure, and self-aware. The same connectivity platform will ship inside every ANEW product — so a turbine, a battery, and a solar tracker all speak the same language. 🔒 Physical Unclonable Function Hardware IdentityEach unit is designed with two Physical Unclonable Functions — one on the measuring side and one on the communications board — that give it a hardware-anchored, clone-resistant identity. Both must authenticate before any transaction is accepted. That fixes the machine to its funding asset, so its power purchase agreement, carbon credits and tax credits trade against proof of THIS unit's generation. 📡 Always Connected4G Cellular, Wi-Fi, Bluetooth and Zigbee, with a two-vendor cellular standard so a unit stays online across networks and borders. Networking will be configured at the factory, so it arrives deploy-ready. 📊 Live TelemetryEach device will report its own generation and health in real time — proof of what it produces, not an estimate. Its Own Customer Portal Every unit gets a birth certificate. From the moment it powers on, each turbine will open its own portal on anewenergy.earth — a permanent identity record and live dashboard: where it was made, what it's generating, its warranty, its carbon and credit history, and its funding. A birth certificate that keeps writing itself across a targeted 50-year life. Permanent device identity, anchored by the Physical Unclonable Function Live generation, health and**

environmental data Warranty, service and end-of-life recovery tracking Carbon credits, PPA and tax-credit history in one place See a Sample Portal → On the Portal

Identity	**Physical Unclonable Function-anchored device ID**
Generation	**Live kWh & performance**
Health	**Self- & environment-monitoring**
Funding	**Carbon · PPA · tax credits**
Lifecycle	**Warranty → recovery**

Read this. ANEW Energy products are in the concept and development stage. Figures marked as targets are design targets, not measured or certified results, and may change. Pictures are renderings. Specifications are copied from the product page at the time of download (2026-11-09) and are not a warranty, quote or offer to sell. Always check the current page: anewenergy.co/water-power
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