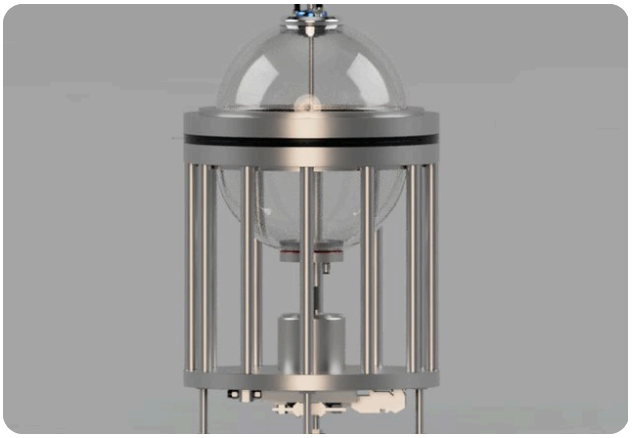
On-Demand Hydrogen

◷ In Development — Register Interest



ANEW On-Demand Hydrogen — a clean cooking flame made on demand from water and electricity, engineered to replace the propane bottle. Only water vapor when it burns. No cylinder, no refill, solar-ready.

Like a rechargeable battery — made of water In every water molecule, the hydrogen and oxygen are clipped together by chemical bonds — picture two tiny loaded springs. It takes a small nudge of energy — a little electricity from your solar panels or ANEW battery — to unclip the hydrogen and free those springs. That effort doesn't disappear; it's now stored in the hydrogen gas, ready and waiting. Light the hydrogen and the springs snap shut: it rushes back to the oxygen in the air, releasing the stored energy as a clean, hot flame — and leaving only water behind, ready to charge again. Energy in, energy out; nothing wasted, no carbon anywhere. 💧 1 · Start with waterOrdinary water — two hydrogen atoms bound to one oxygen. Stable, abundant, and safe. The energy is already there, held in the bonds. ⚛️ 2 · Free the hydrogenANEW's process releases the hydrogen from the water as a light, burnable vapor — turning still water into ready fuel, made on demand, with nothing stored. 🔥 3 · Burn it cleanThe hydrogen recombines with oxygen from the air, releasing that stored energy as a hot, clean flame — the same energy the water was holding all along. A closed loop — and no carbon All that leaves the flame is water vapor: water → flame → water, an endless loop. Propane, butane and natural gas do the opposite — they burn carbon into CO_2, and carry the wellhead, pipeline and cylinder behind them. A water-fed flame has none of that: no carbon in, no carbon out, no fossil supply chain. Anywhere a carbon-based gas burns today — a stove, a heater, a torch, a fuel cell — this can take its place. Where It Works One clean flame, many jobs. Anywhere a propane bottle sits today, a water-fed flame can take its place. Cooking is where we start. ApplicationWhat it replacesWhere it shines Cooking★ Primary focusPropane / LPG bottle, charcoal, firewoodHomes, off-grid households, camping Home heatingPropane space heatersGrid-weak & delivery-only regions Torch & workshopPropane / HHO torchBrazing, cutting, trades & makers Backup & off-grid powerFuel & generator deliveriesFeeds fuel cells & ANEW battery storage Ultra-pure hydrogenLarge fuel cells"Grey" fossil-fuel hydrogenBig fuel-cell systems, ammonia, refining, steel (future scale) On grid electricity, a flame costs more energy than an induction hob — so this shines where a flame is required or preferred, where the grid is weak or absent, and above all where it pairs with solar. The Global Picture A market measured in billions of people. The bottle and the open fire are

among the most-bought energy products on Earth — and every household buys them again, forever. ~3Bpeople cook and heat with LPG or polluting fuels todayIndustry / WLGA ~2.8Bstill cook over wood, charcoal or keroseneWHO / IEA ~3.2Mpremature deaths a year linked to household cooking smokeWHO ~1.3Bdepend on refill cylinders they must buy again and againIndustry The climate math Converting just 10% of counted LPG households to a solar-powered water flame avoids on the order of 13 million tonnes of CO_2 a year — roughly the same as taking ~3 million cars off the road. And a water-fed flame has no wellhead and no pipeline: none of the methane leakage that every propane cylinder carries upstream. Figures are drawn from public WHO, WLGA and EPA data and independent industry estimates. CO_2 avoidance assumes renewably powered operation. The Spec Sheet Water in. Clean flame out. How It Runs

Type	On-demand hydrogen generator
Fuel input	Water + electricity
Output	Clean flame — replaces a standard cooktop burner (≈1–2 L/min cooking gas)
Exhaust when burned	Water vapor only
Onboard fuel storage	None — made on demand
Fuel made	On demand, from water — nothing stored
Solar	Runs on rooftop PV — near-zero fuel cost
Structure	Stainless steel + toughened viewing dome

Living With It

Replaces	The propane / LPG bottle
Refills	None — no cylinder, no delivery
Safety	Sealed system · multiple independent protection layers · designed to appliance safety certification
Physical Unclonable Function identity	Hardware-anchored, clone-resistant device ID
Connectivity	4G Cellular · Wi-Fi · Bluetooth · Zigbee
Monitoring	Live output & health, real-time
Onboard battery	Optional — ANEW solid-state Power Pack
Availability	In development — register interest

Your Project Manager, Included Every ANEW deployment comes with a remote project manager — a real guide who stays with your project and helps you navigate compliance as it moves forward. Rolling out a village or a fleet? On-site project managers are available upon request. Meet Your Project Manager → Its Own Customer Portal Every unit gets a birth certificate. From the moment it powers on, each generator will open its own portal on anewenergy.earth — a permanent identity record and live dashboard: where it was made, what it's producing, its warranty, and its carbon and credit history. A birth certificate that keeps writing itself. Permanent device identity, anchored by the Physical Unclonable

Function Live output, health and environmental data Warranty, service and end-of-life recovery tracking Carbon credits and funding history in one place See a Sample Portal → On the Portal

Identity	**Physical Unclonable Function-anchored device ID**
Output	**Live production & performance**
Health	**Self- & environment-monitoring**
Funding	**Carbon · 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/hydrogen
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