# Wind Power

◷ **Available Fall 2028**

The ANEW vertical-axis wind turbine — a low-wind, rare-earth-free generator designed to sync with virtually any load. Available in 12 colors, with an onboard communications module and its own customer portal.



## Performance & Build

| | |
|---|---|
| Type | Vertical-axis wind turbine (VAWT) |
| Code name | “The Good Egg” |
| Cut-in wind speed | ~1.3 m/s (low-wind design) |
| Rated output | up to 1.5 kW |
| Height | 1.98 m |
| Mass | 109 kg |
| Structure | 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 — even at high wind speeds |
| Physical Unclonable Function identity | Hardware-anchored ID — fixes the unit to its funding asset for credit trading |
| Water ingress | Designed for full submersion |
| Wildlife | Protection nets included — safe down to the smallest critters |
| Load sync | DC · battery · AC mains · 3-phase |
| Onboard battery | Optional — ANEW solid-state Power Pack, factory-configured |
| Output | Steady, independent of wind speed |
| 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

| | |
|---|---|
| Birds | Songbirds to raptors |
| Bats | Night-shift pollinators |
| Small critters | Down to the smallest visitors |
| The machine | Debris stays out, too |
| Coverage | All rotor openings |

## 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** |

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