WindLever · Clean Energy

WindLever

Country: Peru · Lima **Category:** Clean Energy **Impact Areas:** Mitigation **Stage:** Prototype **Team Size:** 3
Website: —

Elevator Pitch

WindLever is a bladeless micro-wind generator that converts wind-induced vibrations into electricity. Its quiet, low-cost design provides clean micro-power for sensors, LED lighting, and low-power devices in off-grid or hard-to-access areas.

Climate Problem

Wireless sensors in remote monitoring systems often rely on batteries that are costly to replace, create waste and limit long-term operation. Clean autonomous micro-power is needed to keep them running.

Solution

WindLever converts airflow-induced vibrations into electricity through a bladeless electromagnetic design. It provides clean micro-power for sensors, LEDs and low-power devices, reducing battery dependence in remote monitoring.

Revenue Model

Venderemos unidades WindLever y kits piloto a proveedores de monitoreo IoT, minería, agricultura, infraestructura y proyectos de investigación, con ingresos por instalación, mantenimiento y soporte técnico.

Target Market

Organizations that deploy remote monitoring systems: IoT providers, mining and infrastructure operators, farms, research centres and environmental agencies needing clean micro-power for sensors.

Social Impact

Indigenous Peoples, People Living in Extreme Poverty

Demand Evidence

Demand is supported by the growth of wireless sensor networks and IoT monitoring, where batteries are costly to replace and polluting. WindLever also received early validation from PUCP’s Environmental Innovation Challenge 2025.

Competitors

Indirect competitors are disposable batteries, small solar kits, micro-wind turbines and academic FIV harvesters. Locally, I have not identified a direct bladeless WindLever competitor yet.

Founder Expertise

I am an electrical engineer with knowledge in wind energy, particle image velocimetry to analyse vortex behaviour, and electrical generation using motors/generators. I also bring hands-on experience in electromagnetic prototyping.

External Support

WindLever has received academic and technical guidance for prototype development, but has not yet received commercial investment or external funding. The next step is field validation with partners.

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