

Why energy assurance matters

Drone missions often fail because battery condition, payload demand and supplier quality are not fully visible before launch.



- Unknown pack health before deployment
- Changing payload and sensor energy demand
- Limited evidence for safe battery reuse
- Higher risk in defense and public-safety missions

V.nod answers one critical question:

Is this battery ready for this mission?

V.nod™



European-engineered drone energy management for verified, predictable and reusable battery operations.



Meet us at the event

See how BMS, smart charging, AI readiness and dashboard evidence work together to reduce power-related mission risk.

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Outcome of two European defense projects

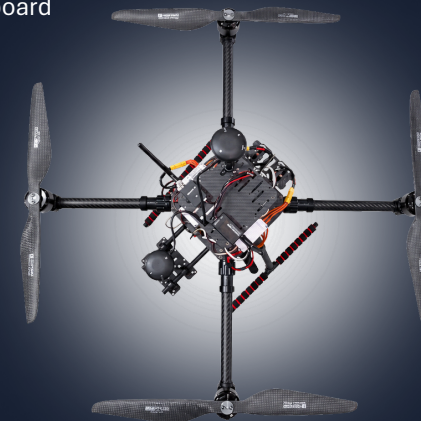
V.nod™



ZERO MISSION FAILURE

Drone Energy Platform

BMS • Smart Charging • AI Readiness • Mission Dashboard

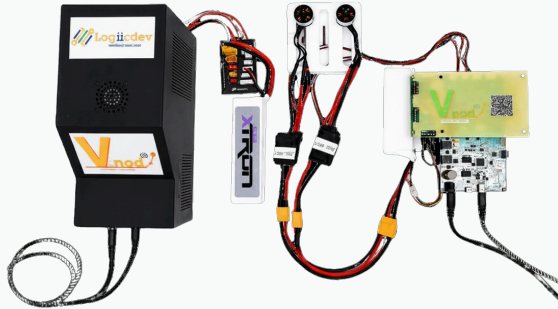


Turning hidden battery risk into mission-ready evidence before launch.

FOR DRONE MARKET

STEP 01

Validate the battery



Battery Management System

Battery ID and traceability

Verified charge and discharge limits

Pack health and reuse scoring

Unsafe or end-of-life packs are flagged before deployment and removed from mission use

Smart Charging Logic

Controlled charge and discharge cycles

Mission-profile-based pack validation

Patented safe reuse thresholds and warnings

Supplier and pack qualification workflow

Outcome: each pack becomes a traceable asset with evidence for safe deployment.

STEP 02

Predict mission risk

AI Readiness Model

Learns from edge data, fleet history and mission profiles to estimate endurance and degradation before launch.

Zero

preventable power-related failures target

≥30%

targeted mission endurance increase

TRL 6–7

2026 pilot deployment target

Readiness Output

Endurance estimate for the selected mission

Real time degradation and abnormal detection

Go / no-go recommendation for operators

Targets to be validated through customer pilots, signed LOIs and EDF/Defense partners.

STEP 03

Decide with confidence



Mission Dashboard

Battery status and readiness score

Mission endurance estimate and alerts

Fleet history and pack evidence

Operator view for drones, packs and missions

Energy Assurance Workflow

- 1 Connect pack** Capture ID, chemistry and limits.
- 2 Replay mission** Test payload and sensor demand.
- 3 Score readiness** Estimate endurance and failure risk.
- 4 Bound endurance** Provide worst-case and best-case flight time estimates.

V.nod™ turns battery uncertainty into mission-ready evidence.