

COMPANY

Powerlys builds the **dispatch decision layer** for renewable and battery portfolios in European power markets. A mixed-integer linear programming planner solves the day-ahead optimum across price, weather and asset constraints; a **CVaR layer prices the tail explicitly** instead of planning around an average. One core serves four topologies — solar, wind, hybrid and standalone battery. Software only: it sits above existing hardware and SCADA, and requires no change to the asset.

MEASURED ON REAL MARKET DATA

+14.0%

Over **109 days of real Dutch day-ahead prices and real TenneT per-PTU imbalance settlement**, the optimiser produced 14.0% more revenue than a rule-based baseline — roughly **+€257,000 per year** on a single 15 MW site, from the decision alone.

136 days live, uninterrupted

Autonomous nightly run

Four asset topologies

Method published (SSRN)

The honest limit: both price legs are real market data, but plant generation is still modelled. This is a backtest, not live trading — and it becomes live validation the moment a real asset connects its telemetry.

WHAT POWERLYS BRINGS

- A production-ready dispatch and risk optimisation component, ready to serve as a work package.
- Live market data pipelines: ENTSO-E day-ahead and TenneT imbalance settlement, running nightly.
- A shadow-mode evaluation environment: a partner's asset assessed on its own settlement data, without touching production.
- Published methodology for the dissemination work package — SSRN, DOI 10.2139/ssrn.7147659.

WHAT POWERLYS NEEDS

- **One demonstration asset with real telemetry.** Renewable, storage or hybrid.
- Shadow mode is enough: the engine runs alongside the existing setup and produces a measured report on the partner's own data. That report belongs to the partner, whether or not anything follows.
- A liberalised market — day-ahead, intraday and imbalance, with a BRP construct.

Not brought: no physical demonstration site, no laboratory infrastructure, no consortium coordination capacity. Powerlys contributes a work package; it does not lead one.

WHY NOW

Mid-sized assets in the 5–50 MW band are losing their subsidy floor: in the Netherlands SDE++ becomes a two-way Contract for Difference from 2027, and curtailment-driven revenue loss rose 44–71% year on year in 2024. These operators now face the market directly. Only the largest players decide well today, because a dedicated quantitative desk used to be the price of entry.

INSTRUMENTS IN VIEW

- **HORIZON-CL5-2027-02-D3-24** — operational validation of AI tools for a next-generation digital energy system.
- **Eurostars-3, CALL 12** — bilateral SME project, deadline 4 March 2027 (TÜBİTAK is the Turkish body).
- Cascade Funding (FSTP) calls in energy open to a single SME.

TEAM

Omer Bumin — Founder & CEO. Three years on the commercial side of renewable energy development, then software and optimisation. Built the engine and the production system solo.

Mohit Misra — Co-founder & Advisor. Former TenneT TSO strategist. MSc Electrical Power Engineering, TU Delft (Cum Laude). Twelve years in energy and commercial roles, including DNV.

STATUS

The system runs autonomously every night on live ENTSO-E and TenneT data. The company is registered in Estonia, the founder is based in Istanbul, and the Netherlands is the first target market.

Pre-revenue: no paying customer and no signed pilot yet. An EIC Accelerator Step-1 application is under evaluation, result expected mid-September 2026.