

The background of the slide features a sunset scene with two wind turbines silhouetted against a bright orange sky. The sun is a glowing orb on the horizon. Overlaid on this scene are several semi-transparent financial charts, including candlestick patterns and line graphs with trend lines. Some data points are labeled with numbers like '112.059' and '220.201'.

The intelligence behind renewable trading

TOK|wise
Data-Driven Energy

Enable your smart power market operations

TokWise: **built for the post-subsidy renewable market**

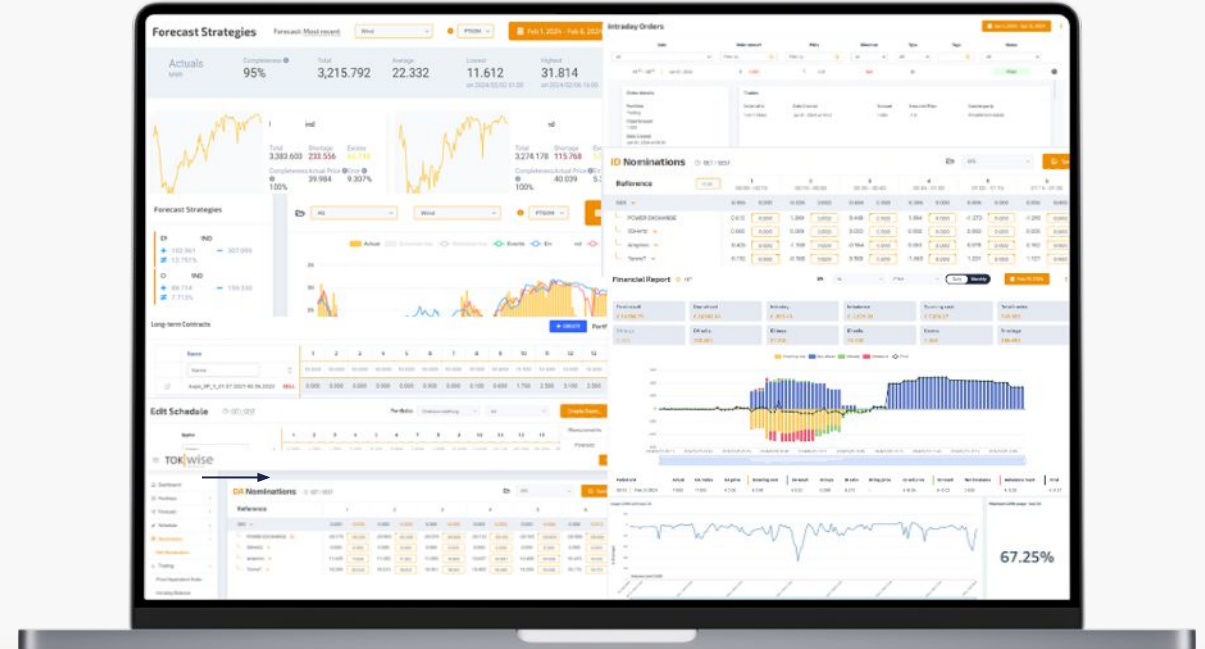
We convert market volatility and balancing risk **into measurable portfolio value through automated execution and optimization.**



TokWise enables asset owners, suppliers, and traders to manage complex RES and BESS portfolios with full control and transparency.



It replaces fragmented tools and outsourced trading with owner-controlled execution intelligence.



Founded
2019

Assets optimized
1.2 GW

Certified Partner
NordPool

EU Markets
7

BESS
200 MW

Our clients are **asset owners and utilities**

Asset Owners

Utilities & Energy Suppliers

OFFER

Get a trading desk without hiring one to improve energy sales

Bring the intelligence layer missing to manage BESS and RES

CLIENTS

IPPs:   C&I: 
   

 BayWa r.e.   

SCOPE

- **Portfolio control:** Bridge the physical asset with real-time market
- **Optimization:** Autonomous AI agents and algorithmic rigor
- **Automation:** Plug-and play trading desk

- **Optimization:** Autonomous AI agents and algorithmic rigor
- **Multi-market:** Short-term hedging across power markets
- **Agility:** Flexible to connect to existing trading setup

BENEFITS

- Higher revenue per MWh produced
- Turning market volatility into potential revenue stream
- Flexible PPA product management

- Generate higher margin as EUR/MWh
- Expand RES and BESS at scale
- Independent strategy innovation

TokWise - **build your in-house optimization** for renewable and BESS

THE TokWise PLATFORM:

Market Access

Direct connection from assets to markets

- Direct exchange connectivity
- Live portfolio visualization

Portfolio Optimization

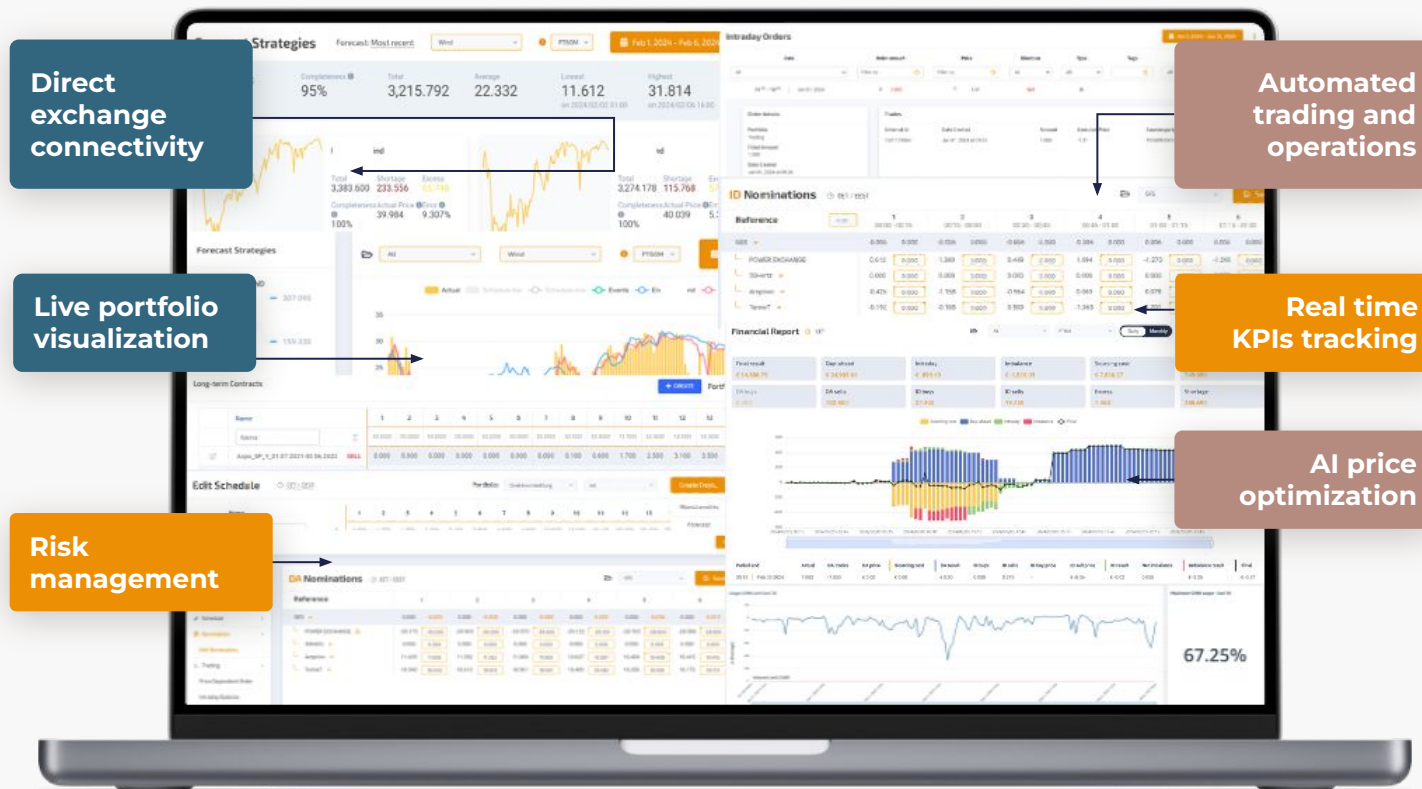
AI execution to maximize portfolio value

- AI driven price optimization
- Automated trading and operations

Control and Management

Risk, transparency, and explainability built in

- Integrated risk management
- Real time KPI tracking



The building blocks behind end-to-end trading:

Core SaaS modules

Connections

Assets

SCADA \ EMS \ VPP \ O&M

BRP

TSOs/DSOs

Market

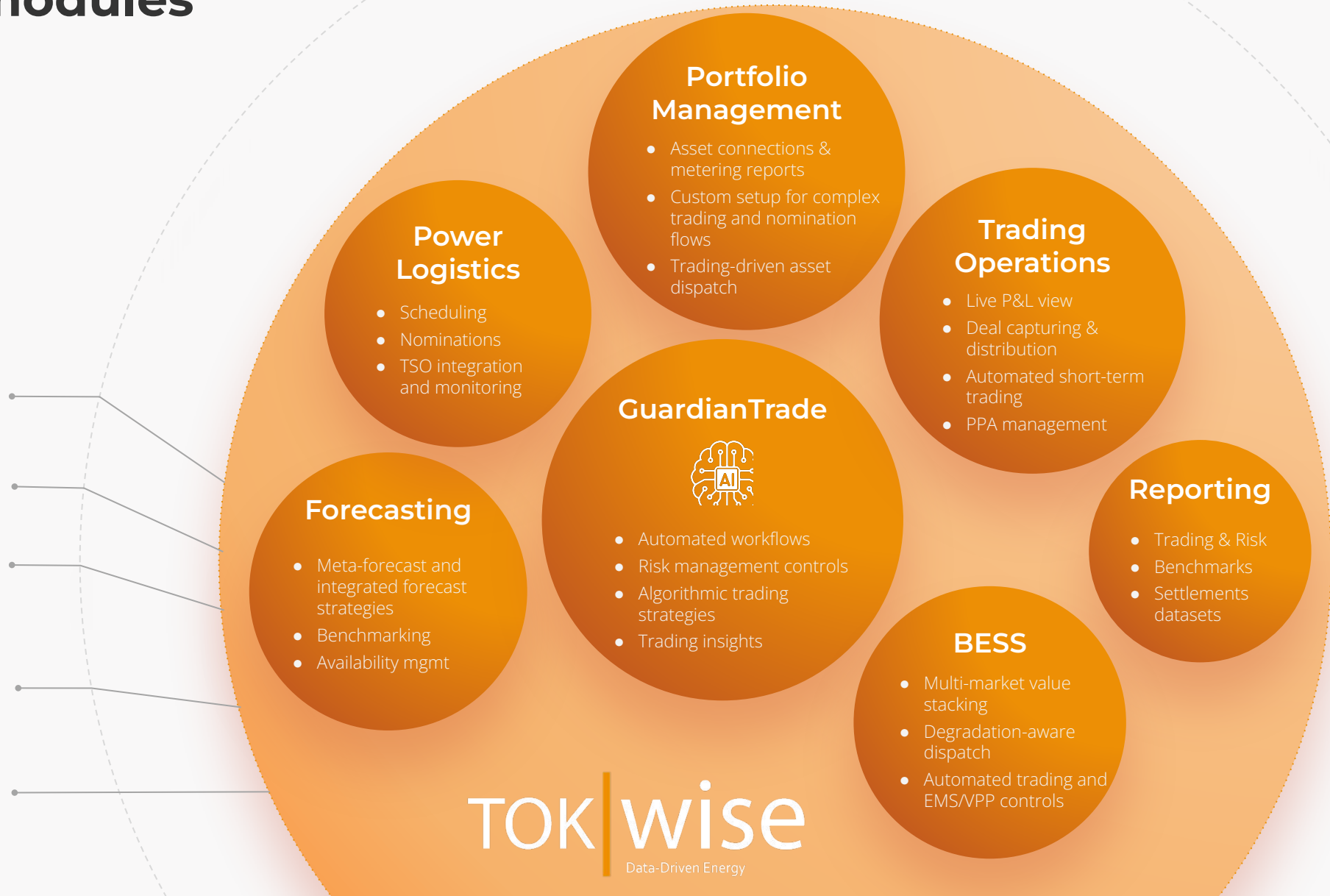
Power Exchanges/
Algo bots

Ancillary Markets

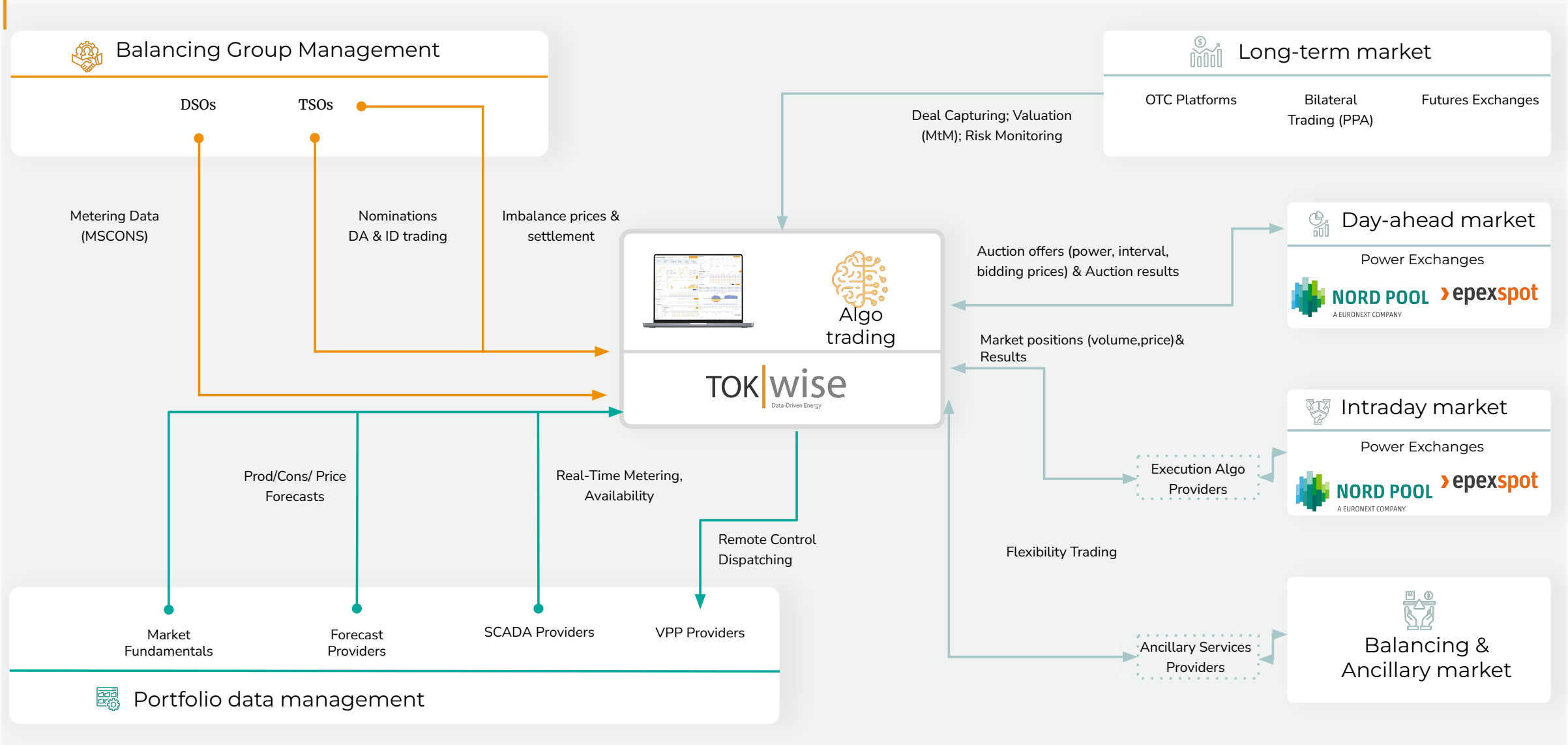
TSOs/VPPs

3rd party vendors

Forecast / Billing /



Trading integration landscape



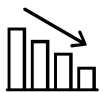
Next-gen IPP Model

IPP Use Case



Renewable investors face **margin erosion from market exposure**

MARGINS UNDER PRESSURE



Revenue models are breaking

Long-term PPAs are disappearing. Post-subsidy assets are exposed to volatile merchant markets and shrinking capture prices.



Portfolio complexity is rising fast

Multi-asset, hybrid, and merchant portfolios now require professional-grade trading and optimization.



Third-party models extract value

External trading and balancing services increase cost and reduce control for asset owners.

FINANCIAL CONSEQUENCES



15-40%

decline in captured price



40%

lost revenue potential from slow and manual trading



-3.0M € / year

lost value for a 1GW renewable portfolio

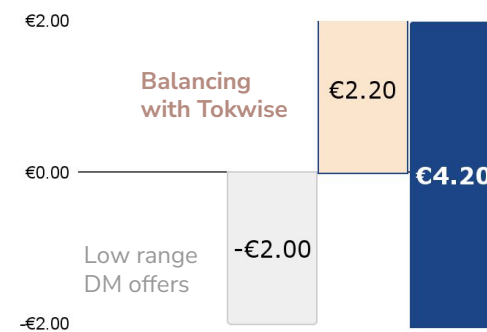
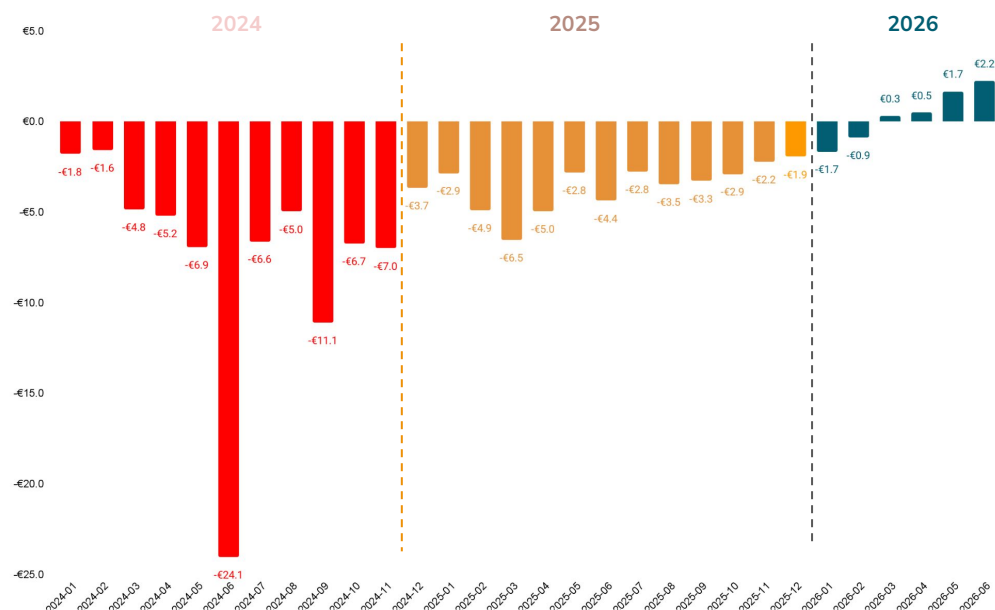


In a post-subsidy market, **trading intelligence becomes a core capability**, not an option.

Tokwise smart trading can bring **+4.20 EUR/MWh** revenue improvement

35% decrease of the balancing cost from -7 EUR in 2024 to -4.5 EUR/MWh in 2025 with clear path towards “break-even”

Uplift potential for Encavis German portfolio on annual basis



Impact for 1 GW DE portfolio on annual basis:

- Additional gain **€3,153,600** (if portfolio is balanced at 0 €/MWh)
- Full potential: **€6,622,560** (if portfolio is balanced at +2.20 €/MWh, which will be +4.20 €/MWh better than DM offers)

“Break-even” means balancing PnL is positive higher than 0 EUR/MWh.

2026 improvement will come from deployment of additional trading strategies (spec trading, economic curtailment, ancillary services) and usage of more signals to improve decision making.

Assuming 1,576 GWh annual production for 1 GW capacity.

TokWise and Encavis **journey**

Since the start of our joint operations the trading setup evolved with **more smartness, automation and higher depth of the trading execution.**



“

TokWise's GuardianTrade has become an indispensable tool for us.

Its AI-based features allow us to make more precise trading decisions and organise our daily processes more efficiently.

Maximilian Langer

Head of Energy Portfolio Management at Encavis