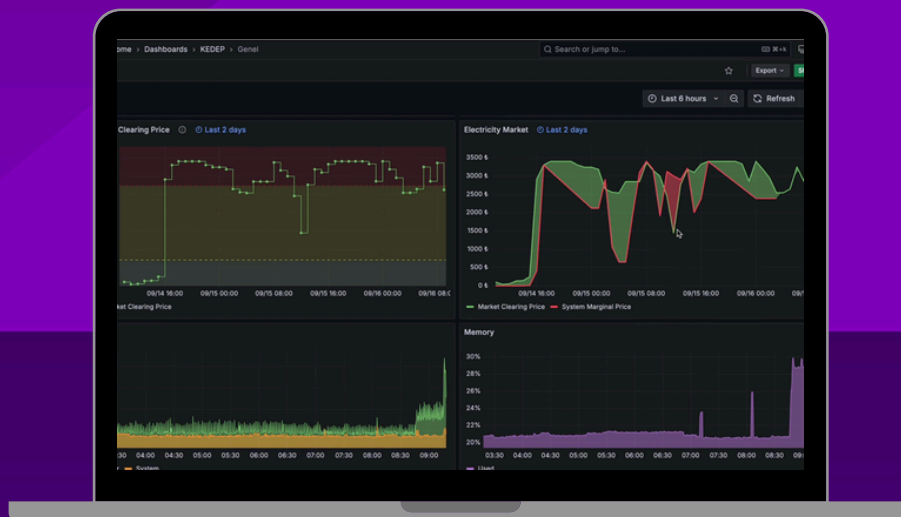


Arbitrage



Arbitrage



“Arbitrage refers to the strategic charging and discharging of energy storage systems to benefit from electricity price differences across time periods or market conditions.”

Price-Based Charging Strategy

PowerKonnekt charges the battery when electricity prices are low and discharges when prices are higher.

Market-Aware Dispatch

Uses real-time pricing signals and market conditions to optimize storage operation.

Revenue Optimization

Helps maximize asset value by turning price volatility into operational and financial advantage.

PowerKonnekt Offers

Arbitrage

- 1. Price-Based Charge & Discharge:** Charges the battery during low-price periods and discharges during high-price periods.
- 2. Market-Aware Dispatch:** Responds to dynamic pricing signals for smarter storage operation.
- 3. Revenue Optimization Logic:** Maximizes financial return from battery usage across changing market conditions.
- 4. Real-Time Monitoring & Control:** Provides live visibility into battery behavior, power flow, and dispatch decisions.
- 5. Flexible Operating Strategy:** Adapts arbitrage logic to different tariff structures and market setups.
- 6. Storage Utilization Optimization:** Improves battery usage by aligning operation with value-driven time periods.
- 7. Automated Decision Support:** Reduces manual intervention through intelligent charge/discharge scheduling.
- 8. Performance Analytics & Reporting:** Delivers insights into arbitrage performance, operational trends, and revenue contribution.

Hardware Precision, Software Intelligence...





CASE STUDY

Project: Ege RES

Size: Total 26,56 MWh

Location: Izmir, Türkiye

Key Capabilities Demonstrated

- Real-time wind + BESS coordination for arbitrage-ready dispatch
- Stable ramp control and fluctuation management under live grid conditions
- Seamless integration of CATL batteries, Power Electronics PCS, and plant controls
- EMS logic validated for scalable market-based operation



Outcome

PowerKonnekt enables:

- Arbitrage potential through intelligent charge/discharge timing
- Better use of renewable generation with lower curtailment impact
- Revenue optimization through coordinated storage dispatch
- A scalable hybrid control structure for future market participation

CASE STUDY

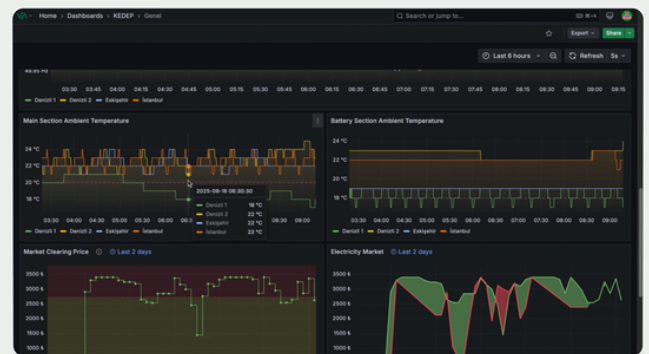
Project: Büyükkışla BESS

Size: Total 121 MWh

Location: Ankara, Türkiye

Key Capabilities Demonstrated

- Advanced coordination between CATL BESS and Power Electronics PCS
- Support for market-linked control functions and trading platform connectivity
- Site-specific EMS logic for PPC interaction and arbitrage-oriented operation
- End-to-end visibility from asset performance to dispatch execution



Outcome

PowerKonnekt enables:

- Smarter energy dispatch aligned with price signals and market conditions
- Stronger monetization potential through trading platform integration
- More flexible battery operation for higher-value use cases
- A robust EMS backbone for scalable arbitrage applications





www.powerkonnekt.com

info@powerkonnekt.com