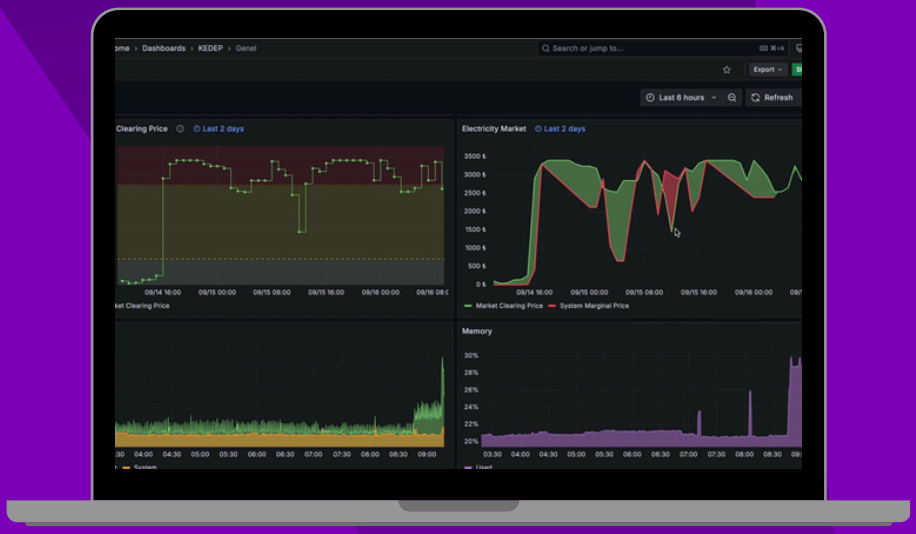
PowerKonnekt

3rd Party Integration



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3rd Party Integration

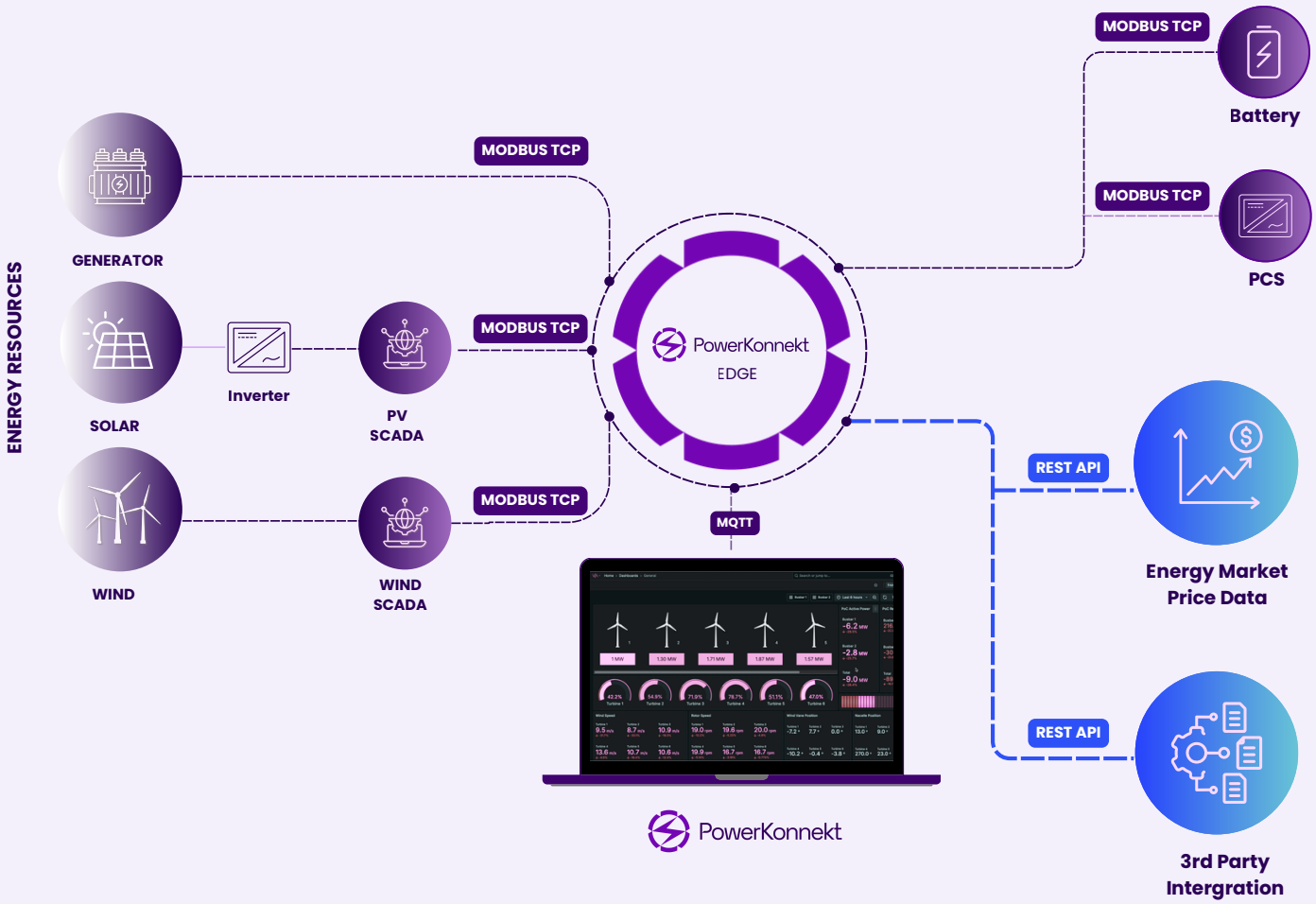
"3rd Party Integration" refers to the seamless connection of external devices, platforms, and software systems into one coordinated energy management ecosystem."

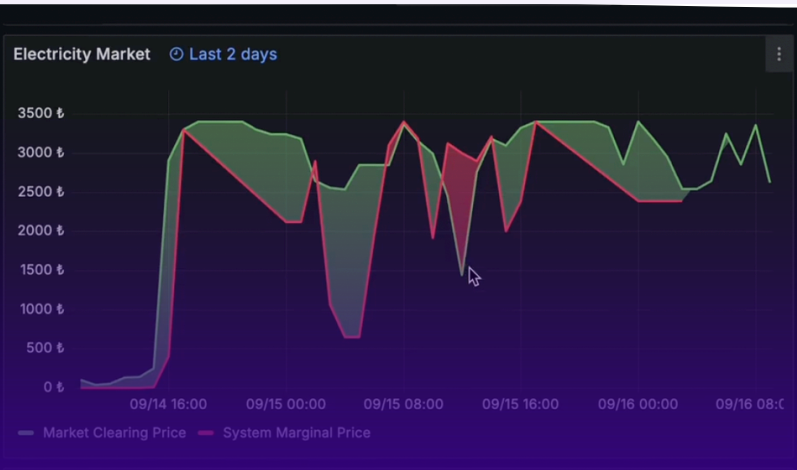
System Compatibility
Seamlessly connects with third-party devices and platforms for flexible and reliable interoperability.

Protocol & Data Connectivity
Enables secure real-time communication across external systems, protocols, and field asset

Unified Monitoring & Control
Brings third-party components into one coordinated structure for centralized visibility and smarter operation.

3rd Party Integration - Communication Protocols





PowerKonnekt Offers

3rd Party Integration

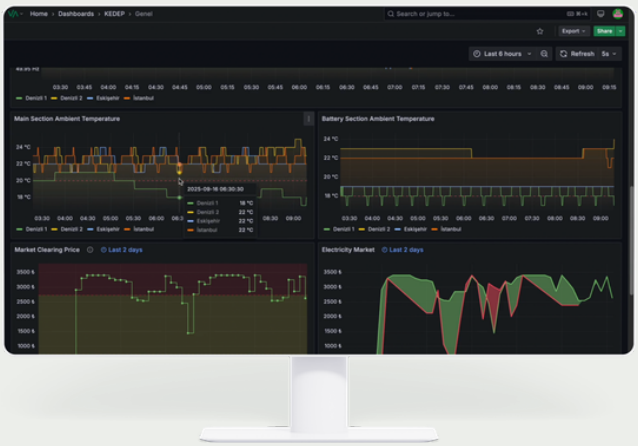
1. **Multi-Protocol Connectivity:** Supports seamless integration through Modbus TCP, MQTT, REST API, IEC 60870-5-104, and other external communication interfaces.
2. **Device & Platform Interoperability:** Connects third-party batteries, PCS, SCADA, meters, HVAC systems, EV chargers, and software platforms within one unified structure.
3. **Centralized Data Exchange:** Collects and consolidates real-time data from external systems for improved visibility and decision-making.
4. **Command & Control Integration:** Enables secure two-way communication for monitoring, control, and coordinated system response.
5. **Custom Interface Development:** Adapts to project-specific third-party requirements with tailored integration logic and interface design.
6. **Alarm & Event Synchronization:** Aligns alarms, status signals, and operational events across connected systems for faster issue detection and response.
7. **Cybersecure Communication** Architecture: Protects data exchange and system access through secure communication design and controlled connectivity.
8. **Scalable Integration Framework:** Allows new third-party assets and platforms to be added easily as project needs evolve.

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** including **trading platform connectivity**
- Site-specific EMS logic for **PPC interaction, black start, and FCR readiness**
- **End-to-end visibility** from asset behavior to dispatch execution



Outcome

PowerKonnekt enables:

- Smarter energy dispatch aligned with **market and grid signals**
- Stronger monetization potential through **trading platform integration**
- **Reliable system response** across core grid-support functions
- A flexible EMS backbone for **higher-value and more dynamic use cases**

CASE STUDY

Project: Ege RES
Size: Total 26,56 MWh
Location: İzmir, Türkiye

Key Capabilities Demonstrated

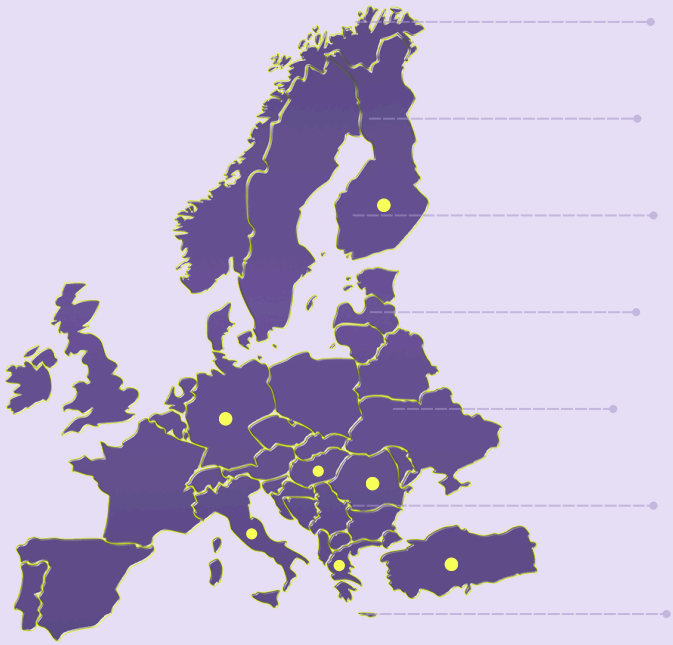
- Real-time wind + BESS coordination **under live grid conditions**
- Stable **ramp control and fluctuation management** at utility scale
- Seamless integration of **CATL batteries, Powerelectronics PCS**, and plant-level controls
- Performance validated through **Ministry acceptance**

Outcome

PowerKonnekt enables:

- Grid-stable wind + storage hybridization at scale
- Curtailment reduction and optimized renewable utilization
- Revenue stacking through intelligent dispatch and storage management
- Fast-response frequency support and dynamic grid services
- Scalable architecture for future capacity expansion

OTHER GLOBAL REFERENCES



Finland
Frequency Control, Self Consumption, TOU Optimization

Germany
Self Consumption, TOU Optimization, Peak Shaving

Romania
Frequency Control, Self Consumption, Renewable Energy Integration

Hungary
Renewable Energy Integration, Load Shifting, Arbitrage

Italy
Peak Limiting, Scheduled Charge, Load Following

Greece
Voltage Regulation, Self Consumption, TOU Optimization

Bulgaria
Peak Limiting, Load Shifting, Arbitrage

PowerKonnekt

www.powerkonnekt.com

info@powerkonnekt.com