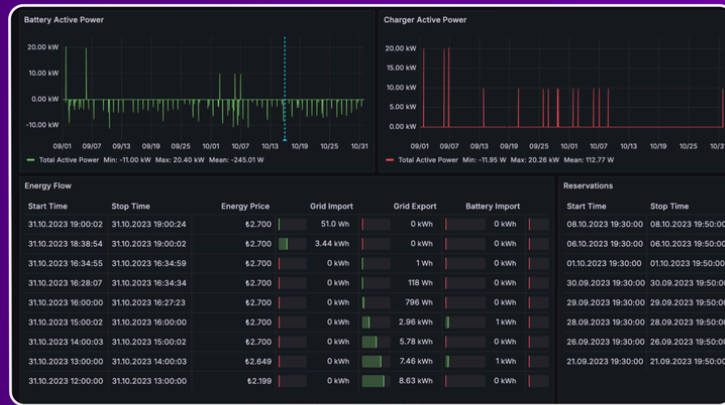




PowerKonnekt

Cybersecurity



www.powerkonnekt.com



"Cybersecurity refers to the protection of energy management systems, communication channels, and control actions against unauthorized access, misuse, and operational risks in industrial environments."



Secure Access & Authorization

PowerKonnekt ensures role-based access control and authorized user actions for secure system operation.

Protected Command & Communication

Validates control commands and manages monitored communication with field devices for safer operation.

Traceability & Operational Resilience

Provides event logging, auditability, and secure system behavior during network or communication disruptions.

PowerKonnekt Offers

Microgrid

- 1. Role-Based Access Control:** Restricts system access based on user roles and operational responsibilities.
- 2. Secure Command Validation:** Ensures that all control actions are checked, authorized, and safely executed.
- 3. Controlled Industrial Communication:** Manages communication with field devices through monitored and structured industrial interfaces.
- 4. Authentication & Authorization Management:** Applies user verification and permission control across system layers.
- 5. Secure Operation During Disruptions:** Maintains controlled and reliable behavior during network or communication failures.
- 6. Event Logging & Auditability:** Records system actions and events for full traceability and audit readiness.
- 7. Operational Integrity Protection:** Reduces the risk of misuse, misconfiguration, and unsafe control behavior.
- 8. Resilient System Architecture:** Supports secure and stable operation across both Edge and Cloud environments.





CASE STUDY

Project: Göktepe BESS

Size: Total 132 MWh

Location: Yalova, Türkiye

Key Capabilities Demonstrated

- Secure EMS integration with PPC, BESS, and renewable assets
- Authorized control of black start, FCR, and plant functions
- Real-time monitoring and traceable command execution
- Secure EMS logic aligned with site and grid requirements



Outcome

PowerKonnekt enables:

- Secure coordination between storage and renewable generation
- Lower risk of unsafe or unauthorized control actions
- Better visibility and traceability across operations
- Stronger plant resilience through secure EMS architecture



CASE STUDY

Project: Romania Gorj ESS

Size: Total 13,76 MWh

Location: Gorj, Romania

Key Capabilities Demonstrated

- Secure EMS integration across the AC-side architecture
- Controlled dispatch of storage and renewable assets
- Reliable plant operation through validated EMS logic
- Traceable and secure hybrid plant management



Outcome

PowerKonnekt enables:

- Secure renewable + storage hybrid operation
- Reduced operational risk and stronger system integrity
- Better traceability of control actions and events
- A scalable, cybersecurity-ready control structure





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