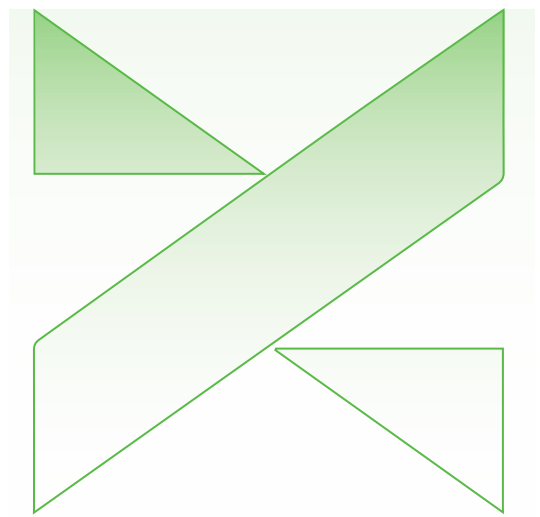# X-Series
X-Core Cloud
The Energy AI

X-Core Cloud

X-Core Cloud is a smart energy management solution that monitors battery cells in real time and manages preventive, reactive and predictive maintenance processes.

- **X-Core Cloud Provides:**
  - Comprehensive monitoring, data logging and maintenance management solution for energy storage systems
  - Centralized control & visualization
  - Remote & real-time data collection

Fast Solution in Warranty and Service Processes

We record every detail and provide maximum security.

- **Accelerating warranty and service processes:**
  Quick decision mechanisms will be created by examining all historical data at the cell and battery module level
- **Insurance & Security reporting:**
  In case of a fire or a serious incident, liability analysis of the incident will be possible thanks to data records

Adding X-Core data loggers to each container enables the use of the existing BMS communication

Data from battery cells is constantly updated with a resolution of 30 seconds

All data is saved on secure cloud servers in Switzerland and stored for ulterior analysis

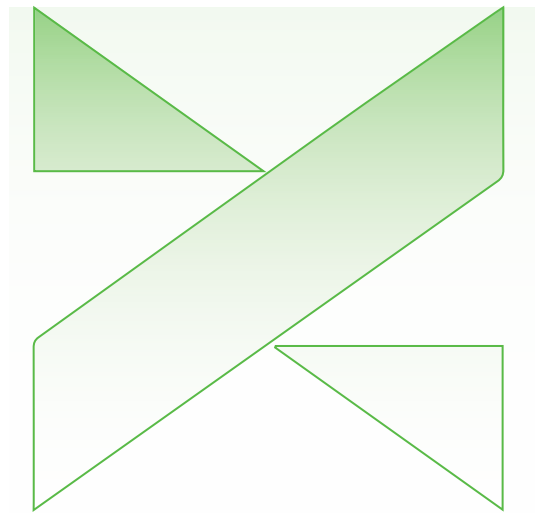| Proactive Quality Management:	Reactive Maintenance (Post-Failure Analysis):	Predictive Maintenance:	Smart Data Use:	AI-Powered Energy Optimization:
We ensure the highest quality by optimizing production processes with cell-based data analysis	X-Core Cloud provides end-to-end fault management, including post-incident reports	Thanks to the collected data, we detect problems before they occur and increase customer satisfaction	We make future production more efficient and durable with information from cells	We use AI to analyze data, optimize battery performance & predict failures, ensuring efficient and reliable energy storage

X-Series
X-Core EMS|PPC
Data Management

X-Core EMS

X-Core EMS offers a unified solution for real-time control and monitoring of battery energy storage systems. It enables fast frequency regulation and inertia support via PPC, ensuring accurate power dispatch. The system also provides real-time visualization, smart alarms, and advanced analytics, with seamless integration into BoP and third-party systems through a customizable interface.

X-Core PPC

X-Core PPC provides advanced plant-level control, managing energy resources and ensuring smooth grid coordination. It supports frequency and voltage regulation, energy shifting, capacity firming, and zero export/import operations. Integration with SVC or STATCOM enables precise reactive power balancing and enhances grid stability.

Cloud

X-Core Cloud

On-Premise / Plant

X-Core PPC

X-Core BESS EMS   X-Core Wind EMS   X-Core PV EMS