

Winznau Dam

A Future-Proof and Flexible
Battery System Solution

Alpiq Holding AG is a leading Swiss electricity producer and energy service provider operating throughout Europe.

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Status Quo

The Winznau dam facility had been equipped with two 48 V DC battery sets for emergency power supply since 2004. After more than 20 years of operation, these systems required replacement.



Banner has proven itself as a reliable supplier of our battery systems. The batteries are easy to maintain and extremely reliable and durable in operation.

- ALPIQ -

Our Approach

A State-of-the-Art Modular Battery System

The battery package consists of 2 x 24 OPzS cells (2 V, 300 Ah), a total of 48 battery cells plus 6 spare cells and is designed from the outset for a future upgrade to 110 V DC. A robust, earthquake-resistant battery rack with an integrated acid containment tray ensures maximum operational safety and long service life.

Combined with a Comprehensive Maintenance and Safety Package

The solution includes a high-performance charger as well as all

required operating and protective equipment.

This not only guarantees long-term performance but also enables safe and straightforward maintenance on site.

Expandable for the Future

A comprehensive refurbishment project is planned between 2026 and 2030, including a conversion to a 110 V DC system.

Therefore, the new battery solution had to provide reliable operation in the short term while also allowing for future expansion and adaptation.

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Added Value & Benefits

Stand by Bull Flooded (OPzS Flooded)



Suitable for high-current discharges



Maximum service life



Excellent price-performance ratio



Modular and scalable design

Summary

- Existing 48 V DC emergency power system (OPzS) replaced after 20 years of operation
- New solution prepared for future expansion to 110 V DC (2026–2030)
- Installation of a modular OPzS battery system (48 cells × 2 V, 300 Ah + 6 spare cells)
- High-performance charger, maintenance package, and safety package included in the complete solution
- Safe and easy on-site maintenance ensures continuous operation of all safety-critical systems
- Fully expandable, future-proof, and designed for long service life

The Result

The new battery installation ensures uninterrupted power supply for all safety-critical components – from emergency power systems and control technology to communication, safety, and alarm systems.

Its flexible expandability provides a sustainable and cost-effective

foundation for the upcoming modernization and transition to 110 V DC.

As a result, the Winznau Dam is equipped with state-of-the-art technology and optimally prepared for the challenges of the coming decades.



Emergency and safety lighting



Emergency power systems



UPS systems



Power supply installations



Renewable energy systems



Emergency power & lighting



Communication systems



Power supply



Telecommunications systems



Fire protection systems



Alarm systems



Mobile communication systems



Substations



Energy parks



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