



## CASE STUDY

# ENSURING POWER CONTINUITY FOR KEK - WITH POWERSAFE® SBS XL BATTERIES FROM ENERSYS®

## OVERVIEW

The battery room replacement and overhaul project at the Kosovo Energy Corporation (KEK) stands as a testament to the pursuit of power infrastructure excellence. In this initiative, EnerSys®, in collaboration with EXBATT, successfully implemented their state-of-the-art PowerSafe® SBS XL 2 Volt batteries, revolutionizing KEK's power capabilities. The project's primary objective was to ensure uninterrupted operations and protect establishments and turbines in the event of technical breakdowns at the KEK TCB Power Plant. Through meticulous planning, expertise, and a commitment to excellence, the project team bolstered KEK's critical power infrastructure, delivering remarkable reliability and power continuity. This remarkable collaboration between EnerSys®, EXBATT, and KEK has ensured a breakdown-resilient future for Kosovo's power infrastructure.

## CHALLENGE

- Existing batteries at the KEK TCB plant had reached the end of their life, which was a risk to the backup power reliability.
- KEK were seeking a solution with lower maintenance requirements than the existing flooded battery installation.
- Elevated temperatures (35-40°C / 95-104°F) are usual in the power plant's battery room. KEK required a solution capable to operate in such conditions until the A/C system activated.
- A new battery rack system was required because the existing racks were highly corroded.



## WITH POWERSAFE® SBS XL BATTERIES FROM ENERSYS®

### SOLUTION

**Reliable backup power:** EnerSys® provided their advanced PowerSafe® SBS XL batteries, which offered superior performance and extended life compared to the existing conventional batteries. These virtually maintenance-free batteries ensured reliable backup power for KEK.

**Reduced maintenance requirements:**

Unlike the previous flooded battery installation, PowerSafe® SBS XL batteries from EnerSys® are designed to be virtually maintenance free - helping to reduce the workload and costs associated with upkeep.

**High-temperature operation:** PowerSafe® SBS XL batteries have robust temperature tolerance, enabling them to operate efficiently even in elevated temperature environments. This feature ensured that KEK's battery room, with temperatures ranging from 25-40°C (77-95°F), could still benefit from reliable battery performance until the activation of an air conditioning system.

**Corroded rack replacement:** EXBATT, in collaboration with EnerSys®, provided guidance and support in designing and installing a new seismic rack system.

### OUTCOME

- Reliable uninterrupted backup power for KEK, safeguarding against technical breakdowns and supporting continuous operations.
- Virtually maintenance-free batteries reduced operational workload and costs, optimizing efficiency.
- Consistent battery performance in high-temperature environments ensured resilience until the activation of an air conditioning system.
- Upgraded rack system provided durability and stability, reinforcing the power infrastructure for the long-term.



*"I am thrilled to highlight our team's exceptional collaboration in transforming KEK's power infrastructure with the flagship PowerSafe® SBS XL battery range from EnerSys®. Together, we have achieved remarkable reliability and helped to ensure uninterrupted operations during technical breakdowns at Kosovo's leading electricity generator. The unwavering dedication and expertise of our team, combined with outstanding solutions and support from EnerSys®, have paved the way for a resilient future for Kosovo's grid."*

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