Based in Madrid, Spain, STL, a public company for gaming technology and telecommunications, provides information technology and telecommunications services to the public entity Loterías y Apuestas del Estado Español (LAE), the Spanish state lottery authority. Its prime objectives are the acquisition, installation, maintenance and exploitation of integral management systems for lotteries by means of gaming terminals, including the issuing of lottery tickets, data transmission and performing the win account. Gaming is a big business in Spain. The Spanish Government is promoting the lottery system through over-the-counter sales and online applications. STL is responsible for developing, operating, and maintaining online and over-the-counter lottery issue and distribution systems. To ensure it can handle large increases in participant numbers and lottery sales, STL had to build a powerful, scalable and highly available (7/24) platform to run the lottery system.

To support the customer’s growth and increase its ability to handle high volumes of transactions, STL had to establish a new data center including a robust and scaling power protection, able to manage the annual growth rates. So far, STL had used two UPS-systems of 160 kVA each from the previous UPS provider. The previous provider suggested to install an UPS system consisting of two 250 kVA in parallel. Additionally it has been suggested replacing the generator due to instability problems. GESAB, a large system integrator on the Spanish market and partner of ABB Spain, has been selected to build the new data center. ABB Spain and GESAB proposed a modular UPS system formed by two DPA Upgrade frames with three modules of 50 kVA each, in a TIER IV layout. With three modules in each Upgrade frame, the machines were right-sized to meet the required load redundantly. Additionally two modules in each UPS system can be added in the future to handle the expected increases in participant numbers and lottery sales. “The scalability of the ABB solution means that STL can extend the system in line with growth, minimizing up-front hardware costs. The ability to safe-swap modules significantly reduces the systems mean time to repair (MTTR) and simplifies system upgrades” said Miguel Angel Jimeno, LPG Manager of ABB Spain.

Once the DPA Upgrades were installed, STL realized that due to the class-leading input current total harmonic distortion the harmonic pollution was virtually eliminated and the problems with the existing generator were solved. Due to the great growth of the lottery business, STL decided to buy the four additional modules at the same time which allow the company to adapt the power protection system to the changing requirements. “Our customer can add modules to the UPS system as sales volume increases without out-laying huge amounts of money” said Mr. Pere Sabaté from GESAB and added: “The easy serviceability and the high operating efficiency help the client to reduce costs and simplify management”.

Power and productivity for a better world™