

RIELLO UPS: ENSURING CONTINUITY AT CISANELLO HOSPITAL



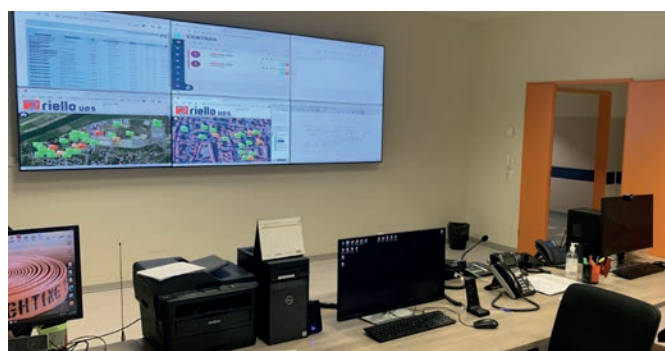
Cisanello Hospital, located in Pisa, is the second largest in Tuscany in terms of bed capacity and surface area. With a development plan set to be completed in 2027, **the medical complex—renamed Nuovo Ospedale Santa Chiara—will become the largest hospital in Italy and one of the largest in Europe in terms of surface area and capacity.** The facility will cover 590,000 square meters, with 364,000 square meters dedicated exclusively to hospital buildings.

In such a complex context, where many activities are highly critical, the availability of reliable and continuous power is essential. For this reason, since 2017, the Director of the Facility Management Department of the Technical Area, Dr. Ing. Lucia Trillini, in collaboration with Industrial Expert Andrea Marchetti, initiated a partnership with Riello UPS to design an advanced system for power protection and continuity. This system, precisely engineered, is now considered a model of excellence both nationally and internationally, studied by many other healthcare facilities.

The system includes 356 Riello UPS units, spanning a dozen different models, from standalone UPS units to modular systems, all connected to a central system

monitored in real-time via a Control Room. This control room uses an advanced remote monitoring system, unique in Europe, especially in the healthcare sector.

The **Control Room**, the operational heart of the system, is managed in collaboration with an external company responsible for fire safety. Here, all UPS units are monitored, ensuring continuous power for activities classified as “Group 2,” such as operating rooms and intensive care units, where electrical power is critical. In addition to these activities, the system also protects other vital sectors, including telecommunications, telephony, robotics, telemedicine, education, and all other critical situations requiring electrical safety.



The collaboration with Riello UPS

The partnership between Cisanello Hospital and Riello UPS began in 2016 with the supply of a few UPS units. However, the high performance of these devices led the hospital to progressively increase the number of units installed, expanding the protection to new departments.

Riello UPS has distinguished itself not only for the quality of its products but also for its continuous availability of assistance, maintenance, and spare parts, ensuring support even during night hours and on holidays.

A concrete example of the reliability of this support occurred when, on December 24, an intensive care UPS malfunctioned: by December 26, it had already been replaced and put back into operation, demonstrating the speed and dependability of the service.

Another key aspect of the collaboration is the direct communication management, without intermediaries, ensuring a quick response whenever a need arises.

Only after addressing the emergency are the bureaucratic formalities completed, minimizing the risk of interference with the service.

The Future

The development plan for Cisanello Hospital is fully underway and includes the expansion of the energy protection network. Currently, the system is structured with 8 medium-voltage substations supported by generators, but a significant increase in the number of UPS units is planned.

This expansion also involves the evolution of maintenance, telemetry, and control systems, with continuous updates to ensure backward compatibility between new and existing healthcare facilities.

Riello UPS, leveraging the expertise of its R&D department, is supporting the hospital in this innovation process, providing reliable and cutting-edge solutions to meet future challenges.

Solutions

- 200 x Sentinel Dual SDH 3000 kVA;
- 40 x Master MPS da 20 kVA a 160 kVA;
- 30 x Multi Sentry da 20 kVA a 120 kVA;
- 20 x Sentryum da 10 kVA a 40 kVA;
- 15 Sentinel Tower 5 kVA.



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