

Supplying 370,000 patients with emergency power

For buildings like the Aarau Cantonal Hospital, reliable power is a top priority. Electricity must be available on demand to power all of its operations, especially in emergencies.



26,000 inpatients



Trouble-free hospital operations

Power outages are not only a nuisance, they can also be life-threatening. At the Aarau Cantonal Hospital, electrical equipment and control systems from ABB help to ensure an uninterrupted supply of electric power.

The prospect of a hospital without the power to run an electric heart rhythm monitor or the lights during an operation is simply unthinkable. To prevent this from ever happening, emergency power systems ensure that even during a public-grid blackout, enough power is available to operate the hospital.

A cleverly designed emergency power concept

For Aarau Cantonal Hospital, ABB modernized the entire control system for emergency power groups as well as the main distribution system. The programmable logic control system controls the diesel engines and generators of the emergency power groups and communicates with other control systems. Thanks to a cleverly designed comprehensive load management system, individual consumers can also turn the system on or off: only when all operating and delivery rooms are supplied with power and enough reserve power is available, can less critical parts of the system be brought online. In all, Aarau Cantonal Hospital has 3,850 kVA of emergency power capacity at its disposal.

A broad portfolio for hospitals

Hospitals in Basel and Winterthur are also equipped with ABB emergency power control systems. Triemli Hospital in Zurich and the Chur and Zug Cantonal Hospitals use ABB technology as well. Our medium-voltage switchgear, transformers, MNS switchgear with condition monitoring as well as diesel-based emergency power aggregates, control systems, grid control systems and more, provide reliable services in hospitals across the country – reliable enough to prevent a power outage in a delivery room from ever happening.

3,850 kVA of emergency power capacity in the event of an outage



19 operating rooms and 5 delivery rooms



For each patient