

Solutions for Airports

Everything under control at the world's fastest growing airport

Siemens helps the Sabiha Gökçen International Airport to protect people, minimizing downtime and avoiding service interruptions.

The Sabiha Gökçen International Airport, the biggest earthquake-proof building in the world, ensures maximum safety for all passengers and staff by an intelligent danger management system, in which all safety and security components have been integrated.

The "World's Best Airport"

Since 2001, Istanbul has had a second international airport, the Sabiha Gökçen, which is located on the Asian side of Turkey. The airport, named after a female Turkish fighter pilot, predominantly serves charter airlines and also offers inland connections.

The Sabiha Gökçen International Airport is an architectural gem and together with the Istanbul Park Formula 1 Racing Circuit intended to strengthen the region's economy.

As one of the world's most safe and secure airports, it has been awarded the title of "Best Airport" by the World Low Cost Airlines Congress.

The challenge of a safe, secure and green airport

In mid-2008, the Sabiha Gökçen International Airport was extended to be able to deal with a capacity of 25 million passengers.

The challenge facing such an airport is how to manage this expected growth of passengers and flights efficiently and in a way that is compatible with the environment. It is a challenge that Siemens, one of the few companies in the world with the expertise to completely equip airports, has already started to tackle – with ultra-modern transport concepts, its green portfolio, highly developed security and comfort solutions for buildings and technical infrastructure.



Siemens – a trusted partner

For the Sabiha Gökçen International Airport building as well as the including hotel, restaurants, shopping center, four story car parks and conference centers, key systems and services, which ensure high levels of security, safety and comfort, were needed.

As the global leader in airport logistics, Siemens was enlisted to undertake this installation of the security, fire safety and building automation systems at the Turkish airport.

The safety and security system from Siemens comprises 210 cameras, 28 digital video recorders, along with a fire safety system of 9,000 smoke detectors and 400 carbon monoxide detectors integrated into a danger management system. In the event of evacuation, an integrated voice notification system using 4,600 loudspeakers, is brought into action.

Optimizing the energy efficiency

Having a large number of windows, the Turkish airport also has complex energy issues. The installed building automation system from Siemens monitors 11,000 data points, automatically raising blinds, turning off lights, reducing heating or increasing air conditioning – all to save energy and ensure a comfortable environment.

And no corners were cut with regard to climate protection. The Turkish Civil Aviation Ministry initiated the “Green Airport Project” in July 2009, and a systematic climate management system is in planning.

Integration of all these systems forms the heart of a typical Total Building Solution from Siemens. All disciplines are coordinated to make the airport buildings more secure, more comfortable and more economical. The solution at Sabiha Gökçen can be adapted or expanded at any time, thereby protecting the developers’ original investment.

Highlights

- 28 Sinteso™ fire control panels
- 9,000 Sinteso smoke detectors
- 11,000 BMS data points
- Desigo™ Insight building automation and control system
- 28 digital video recorders
- 210 cameras and 43 monitors
- MM8000 danger management system
- SIVACON S8 power distribution
- ALPHA universal metering cabinets