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# Haeundae Paik – a new dimension of safety and security and reliability

The Haeundae Paik Hospital provides maximum safety and security and optimal patient comfort due to Total Building Solutions from Siemens.

The Haeundae Paik Hospital is emerging as a leading player in medical tourism, propelled by its cutting-edge medical technology and innovative Total Building Solution infrastructure. Its eco-friendly design and high comfort level offers patients a pleasant and appealing atmosphere.

## The building

Haeundae Paik in southwest Korea is a true 21<sup>st</sup> century hospital. The new building was designed as a 21-story landmark extension to the existing facilities. Specializing in customized medical services and a high standard of patient care, the hospital is considered a leading medical institution. It has a capacity of 1,004 beds on a total floor space of 114,000 square meters. The Total Building Solution from Siemens deployed at the hospital combines comfort, fire safety, and security in one system.

## The challenge

Modern hospitals have challenging demands: Buildings and building facilities have to be flexible, reliable, and of the highest quality, and they must meet all regulatory requirements. Siemens integrated and merged state-of-the-art technologies and systems at Haeundae Paik, including heating, ventilation, air conditioning, fire safety, and access control. These systems are designed to run around the clock with zero interruption. High availability and communication between the individual systems ensures that the hospital staff can work as efficiently as possible.

Answers for infrastructure.



### The solution

At Haeundae Paik Hospital, Siemens implemented a Total Building Solution tailored to the building structure and usage. It is based on a building automation system that integrates HVAC control, lighting and shading control, as well as security applications. Open and standardized communication between all disciplines ensures highly efficient control. Demand-based use of all disciplines reduces operating costs, increases comfort, and guarantees a high level of operating safety.

The philosophy behind Haeundae Paik Hospital was to create a pleasant environment for doctors, patients, and visitors alike. Patients should be able to adjust the room climate and manage lights and audiovisual devices themselves, thus creating an inviting atmosphere. In addition to a high level of comfort, safety and security for people and the infrastructure are important considerations in a hospital.

For example, if the fire alarm system detects a fire, the access control system opens the doors along the escape routes to safely lead people outside. Elevators automatically move to the first floor. In short, the integrated safety and security solution allows for faster detection of dangerous situations and helps initiate the correct action, such as notifying the person in charge via text message (SMS). In addition, critical building areas are clearly identified on alarm pop-ups.

In overall terms, the Total Building Solutions from Siemens increase comfort, make energy consumption more efficient, and significantly lowers operating costs. The result: saving resources and minimizing CO<sub>2</sub> emissions. Haeundae Paik Hospital is a prime example of a totally integrated and environmentally friendly infrastructure solution.

### Highlights

- The control and monitoring system guaranteed uninterrupted operation
- An integrated solution provides safety and security and comfort
- Patient-friendly climate and lighting regulation
- Efficient cost management with Total Building Solutions