



SAN JUAN DE DIOS HOSPITAL

Digital integration transforms modern healthcare

Siemens' integrated building technologies, and human-centric approach helped San Juan de Dios Hospital achieve operational efficiency, safety improvements, cost savings, and sustainability outcomes.

[siemens.com/hospital-san-juan-de-dios](https://www.siemens.com/hospital-san-juan-de-dios)

SIEMENS

A smarter way to manage a **complex hospital environment**



Healthcare facilities are under growing pressure to improve efficiency and reduce emissions without ever compromising patient safety.

Patient numbers continue to rise, while staffing shortages and higher operating costs make it harder for hospitals to manage. With buildings accounting for around 40% of global carbon emissions, and healthcare facilities increasingly facing financial and sustainability pressures, improving operational efficiency is key.

But hospitals are complex environments with many critical systems operating at once. When heating, cooling, lighting, equipment, and clinical processes are managed separately, it becomes difficult to maintain efficiency, resilience, and safety.



35%

reduction in operational costs of analyzed assets through Siemens' integrated solution

Centralized control enables staff to oversee the entire facility **more efficiently while automation reduces downtime**

The healthcare industry accounts for **5% of global carbon emissions**

By 2050, the global population **aged 80+ will have tripled**

That's why integrated building management is the first step: it creates a single, reliable foundation that enables better decisions today, and the journey toward human-centric autonomy tomorrow.

This enables the building to increasingly anticipate needs, reduce friction for staff and continuously optimize energy and performance without compromising the patient experience.

The digital journey of the San Juan de Dios Hospital

The San Juan de Dios is a global non-profit healthcare institution with more than 400 hospitals across five continents.

With over 450 years of history, the San Juan de Dios Hospital sits within this network and stands out for its commitment to medical excellence and people-centered values.

The hospital's most recent building opened in 2022 and is one of its most modern facilities. Reflecting Spain's push for sustainable healthcare infrastructure, the hospital set out to modernize its systems with a fully digital, integrated management platform.

Partnering with Siemens, the hospital began its journey to become a smart and sustainable facility by improving operations and efficiency while maintaining commitment to high-quality care.



Centralized control for **efficient operations**

The hospital faced a range of operational pressures, including energy consumption, strict safety demands, and a complex infrastructure. Managing critical systems like HVAC, lighting, security, and fire protection across a large healthcare environment is a challenge.

What was required was a single, integrated control platform capable of unifying, monitoring and reducing manual intervention.

The hospital's goal was to have an open, flexible management model that would centralize the control and performance of all hospital facilities. It required a system that could improve overall efficiency and support day-to-day operations.

A key priority was to strengthen hospital resilience through a hazard-management approach that optimized system responses during emergencies. Equally important was energy management and the continuous analysis of assets.

A solution to enable digital transformation

Siemens has years of experience as a trusted technology partner, helping create optimal conditions for each healthcare facility it supports. For the San Juan de Dios Hospital, this expertise translated into the digital transformation of the hospital's infrastructure through the deployment of digital and scalable solutions.

By integrating fire detection, HVAC automation, and security systems into a single centralized platform using Desigo CC and the Siveillance Suite, the hospital can now manage critical operations more efficiently. An AI-powered digital building platform also enables early fault detection and real-time monitoring to extend equipment lifecycles, minimize false alarms, and generate energy savings.



The integration of all systems under one platform allows us to operate more efficiently and safely, **ensuring comfort and reliability for every patient.**

María Jesús Pareja

General Director and medical doctor specializing in pathological anatomy



Building automation

Siemens Desigo PX and RDG160KN automation systems ensure a comfortable environment is maintained throughout the hospital at all times and energy efficiency is optimized.



Lighting management systems

Systems are based on DALI and KNX communication standards to achieve user-friendly lighting control and low energy consumption.



Fire safety

Fire protection is assured throughout the building using smoke detectors, Cerberus PRO fire detection systems and Sinorix suppression systems.



Security

An SPS intrusion center, combined with a CCTV solution that includes 150 cameras managed with Siveillance Suite and integrated with Desigo CC, means patients, staff and visitors can move around in complete safety 24/7.



Desigo CC

The new Desigo CC building management system for high-performance buildings provides a central platform that integrates all technologies to enhance comfort, security and energy efficiency with a user-friendly interface.



Digital Services

The new cloud-based performance analysis system provides corrective measures to create further energy savings.

A future-ready solution that delivers lasting value

With Siemens' integrated solution, the hospital achieved nearly 35% in operational cost savings, along with greater operational reliability, faster fault resolution, and measurable energy savings.

- Centralized control enables staff to oversee the entire facility more efficiently, while automation reduces downtime.
- The installation of state-of-the-art, networked technologies ensures maximum comfort, and safety for staff, patients and visitors throughout the hospital.
- By consolidating all building subsystems into a single Building Management System, the hospital benefits from increased availability, higher system security, and increased operational efficiency for both facility managers and building owners.
- The solution delivers value to the customer by providing a single interface to manage and control the entire installation. Its open, interoperable design allows communication with equipment from other manufacturers and supports standard protocol for long-term flexibility.
- Trend and history tracking enables the creation of detailed performance insights enabling more proactive maintenance and continuous optimization.
- Built on a distributed, flexible architecture with a virtualized Desigo CC platform located in the hospital's own data center, the system is engineered for scalability.

Achieving greater sustainability gains

The integrated solution at the San Juan de Dios Hospital delivers measurable sustainability gains by optimizing how the building uses energy and resources.

By bringing HVAC, lighting, fire safety, and security systems into one digital platform, the hospital operates far more efficiently than with separately managed systems. Automation, continuous monitoring, and real-time performance analysis help reduce energy consumption, stabilize building conditions more quickly, and extend the life of critical equipment.

As healthcare facilities are pressured to lower emissions and improve resilience, the solution at the San Juan de Dios Hospital delivers a strong basis for long-term sustainable performance.

Transform your hospital's performance

Take the first step on the journey to developing an efficient, resilient, cost effective and sustainable hospital.

Siemens' smart infrastructure solutions have the power to transform your facility today for a better tomorrow.

Published by
Siemens Switzerland Ltd

Smart Infrastructure
Global Headquarters
Theilerstrasse 1a
6300 Zug
Switzerland
Tel +41 58 724 24 24

For the U.S. published by
Siemens Industry Inc.

100 Technology Drive
Alpharetta, GA 30005
United States

Status 02/2026

Subject to changes and errors. The information given in this document only contains general descriptions and/or performance features which may not always specifically reflect those described, or which may undergo modification in the course of further development of the products. The requested performance features are binding only when they are expressly agreed upon in the concluded contract.

© Siemens 2026