

# **De Castilla 23**

## **Il sistema di building automation**



# Siemens

## Smart Infrastructure

**Smart grids + smart buildings =  
smart infrastructure.**

Smart Infrastructure intelligently connects energy systems, buildings and industries to enhance the way we live and work through greater efficiency and sustainability. By integrating software and hardware, products, systems, and solutions, we make infrastructure more intelligent, responsive and responsible. Smart Infrastructure unites building technology with energy supply – including low- and medium-voltage power distribution and grid control. There are exciting growth markets at the grid edge, where these realms meet. In these markets, we ensure that energy is used efficiently – in generation, consumption and storage, in electric vehicle infrastructure and in microgrids. Our offerings combine physical solutions and digitalization across the focus areas of electrification and automation.



# Smart Infrastructure

## Electrical Products I



- Switching and protecting with contactors and motor starter protectors
- Electronic starting devices for motors
- Push buttons and position switches
- Functional and safety relays, motor management devices

## Electrical Products E



- Low-voltage protection devices, switching devices, measuring and monitoring devices
- Low-voltage distribution boards and systems
- Medium-voltage vacuum circuit breakers, contactors and interrupters
- EV<sup>1)</sup> charging and storage for residential

## Building Products



- Integrated building management software and platforms for automation, fire safety, security and other domains
- Building automation
- Room automation and lighting control
- Sensors, valves and actuators
- HVAC<sup>2)</sup> OEM controls and devices
- Fire safety
- Cloud applications and gateways

## Distribution Systems



- Medium-voltage primary and secondary switchgear/ generator breaker systems/ outdoor systems
- Low-voltage switchboards, motor control center and busbar trunking systems
- Distribution and traction transformers
- Energy storage systems
- PV<sup>3)</sup> inverter systems
- eMobility charging infrastructure
- Distribution solutions
- Service

## Digital Grid



- Substation automation, protection and smart communications
- Grid operation and control
- Smart grid applications, analytics and IoT offerings
- Grid planning and simulation

## Solution and Service Portfolio



- Digital Twin architecture
- Building operations
- Security
- Service/ Migration
- Building performance
- Smart Spaces
- Distributed Energy Systems
- Vertical markets specific portfolio (e.g. for Data Centers and Life Science)

1 EV: Electric vehicle | 2 HVAC: Heating, Ventilation and Air Conditioning | 3 PV: Photovoltaics



## **De Castilla 23**

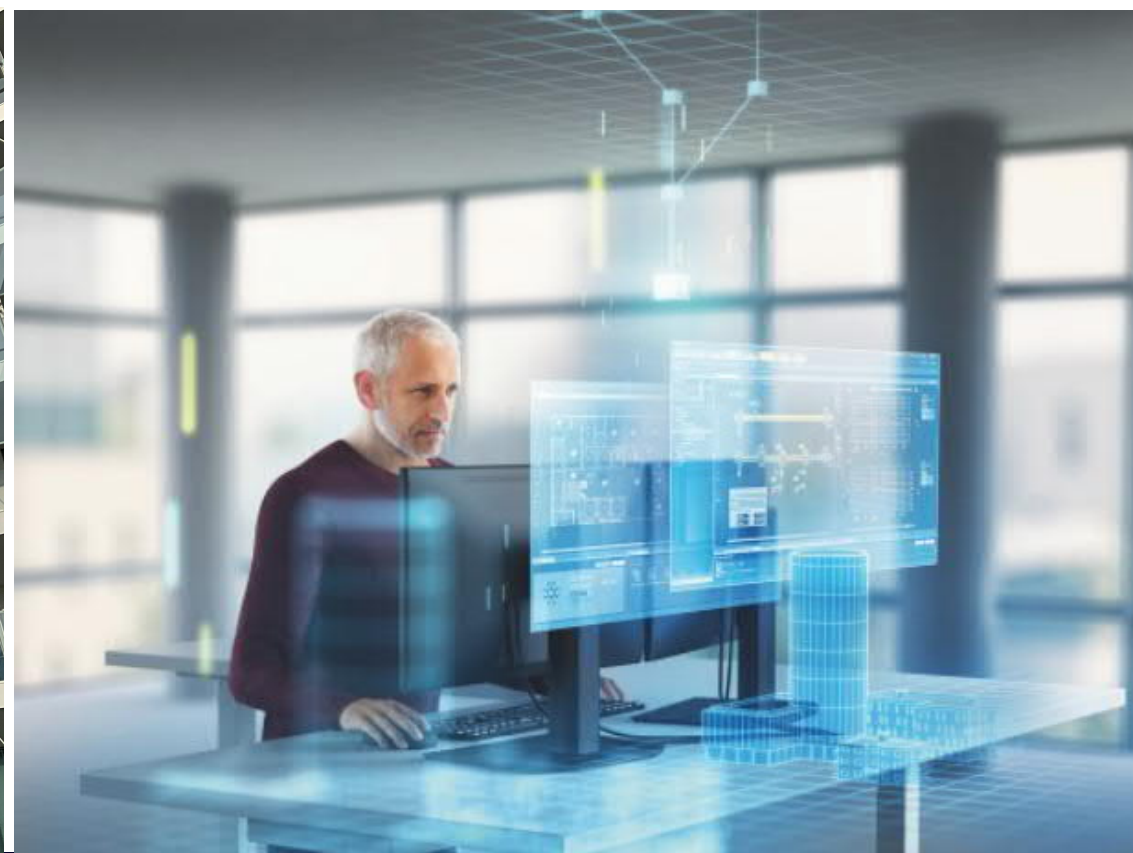
**Il Concept di realizzazione del sistema di building automation, l'intelligenza dello Smart Building**

- Comfort
- Sicurezza
- Flessibilità
- Efficienza energetica

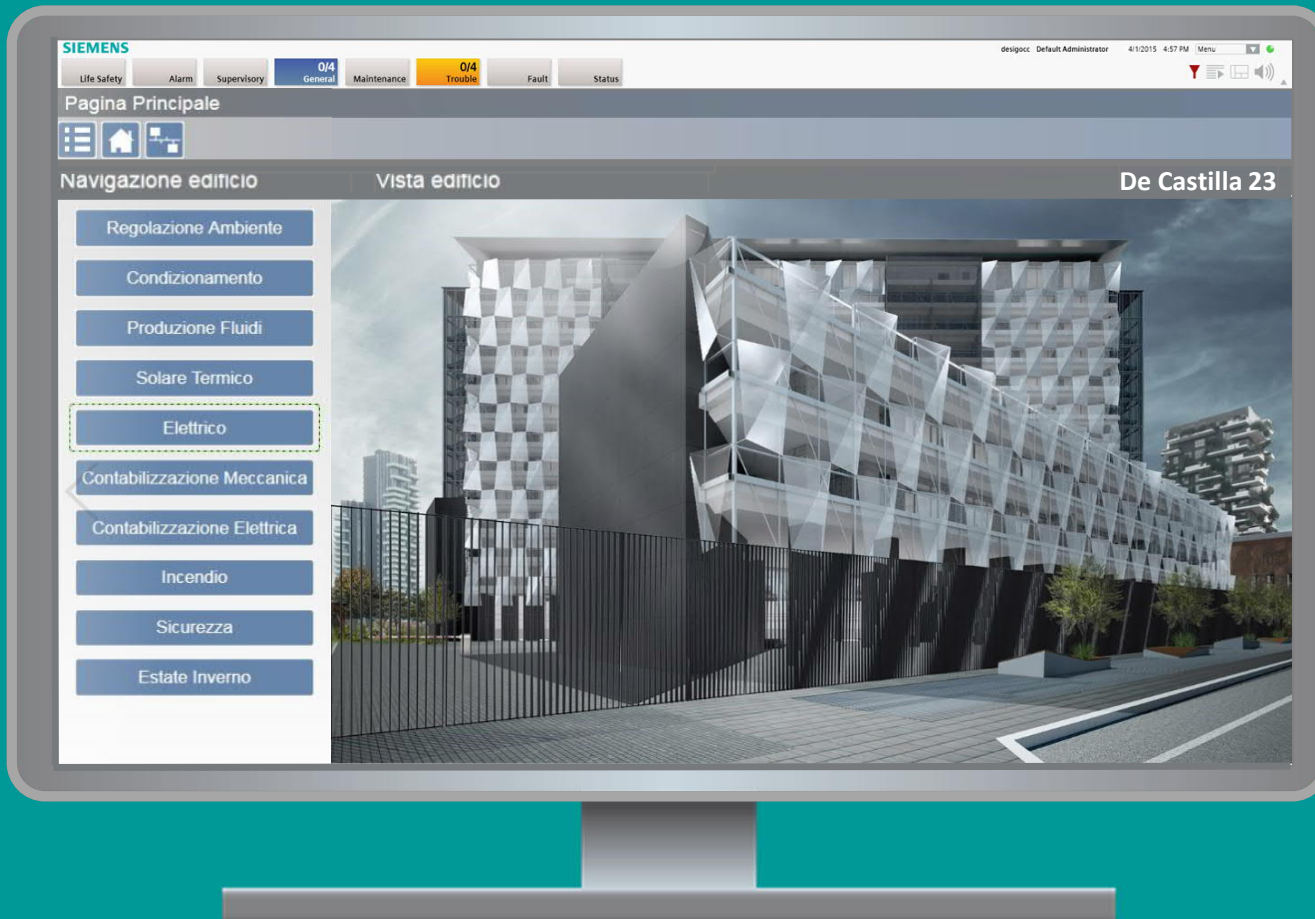




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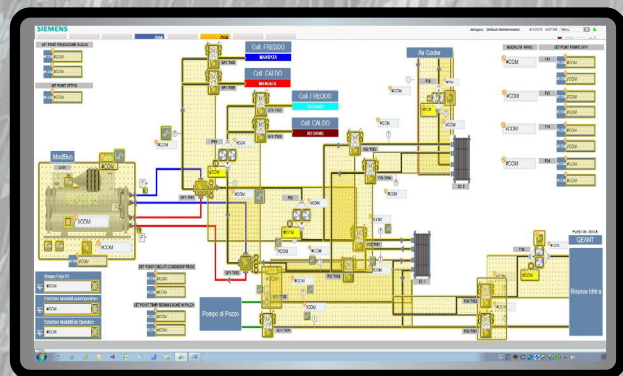
Il Sistema di building automation Desigo con un'unica piattaforma per la gestione integrata dell'edificio.



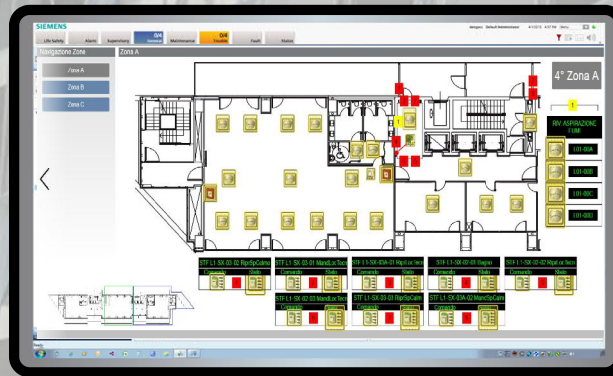
## La piattaforma di gestione e supervisione Designo CC

- Unica piattaforma per la gestione e la supervisione integrata.
- Architettura di sistema interoperabile e aperta.

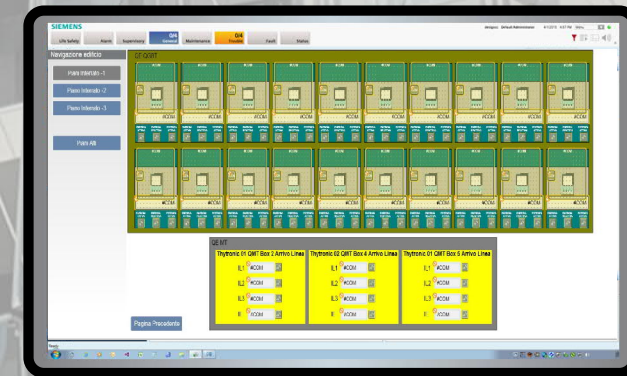




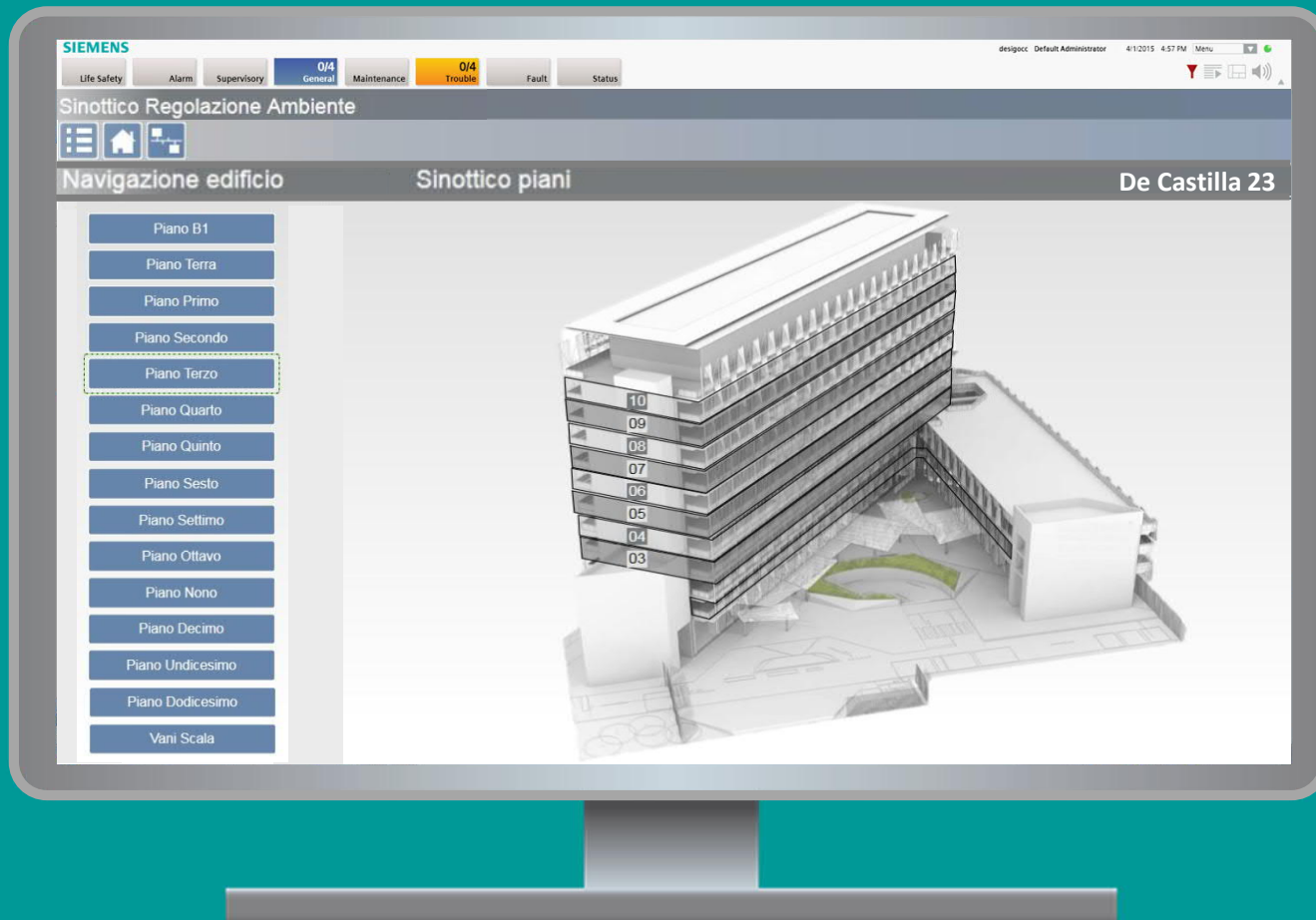
HVAC  
Il Gruppo frigo



Safety  
L'impianto di rivelazione  
incendio



Efficienza energetica  
La contabilizzazione dei  
consumi



## De Castilla 23

### Il controllo integrato ambiente

- Comfort
- Efficienza energetica
- Flessibilità



