



industrial  
kitchen



FROM DOMOS EXTENDED, THE ADVANCED DOMOTIC SYSTEM MADE BY DSSTECH, IT WAS DEVELOPED DOMOS BUILDING TO MANAGE NON-RESIDENTIAL STRUCTURES.

DOMOS BUILDING PROVIDES SOLUTIONS OF BUILDING AUTOMATION TO INCREASE THE EFFICIENCY OF BUILDINGS USED FOR PRODUCTIVE, COMMERCIAL OR DIRECTIONAL PURPOSES.

DSSTECH DEVELOPS A DOMOTIC SYSTEM ACCORDING TO CUSTOMER REQUIREMENTS, OFFERING ASSISTANCE FROM DESIGN TO POST-SALE PHASE.



DSSTech was commissioned to automate, with DomOS Building, an industrial kitchen in the province of Trieste.

The building covers about 3140 sq.m. and has a production capacity of 8000 meals daily. The plant employs 75 production workers and 15 persons for management activities.

#### CUSTOMER REQUIREMENTS

- **LIGHTING CONTROL IN THE WHOLE BUILDING**
  - management of 55 ON/OFF light points and 6 dimmable light points
- **MONITORING OF ALARM CALLS**
  - alarm calls management in bathrooms reserved for disabled people
- **SIGNALING AND MONITORING OF 40 TECHNICAL ALARMS**
  - real time signaling of technical alarms (heat drop, boilers alarms, pumps, AHU)
- **HEATING AND COOLING CONTROL**
  - management of 6 ceiling splitter machines for heating and cooling of some specific environments
- **SYSTEMS INTEGRATED MANAGEMENT**
  - plants management with logic defined by the factory's manager depending on schedules and production peaks (control of pumps, boilers, AHU and chiller machines)
- **SIMPLE AND INTUITIVE USER INTERFACE**





## DOMOTIC SOLUTIONS

With the application of DomOS Building system, it becomes possible to use ad hoc solutions that extend to the maximum level the integration of the domotics.

The management of the building is made instantaneously and in extremely simple way.



### LIGHTING MANAGEMENT

The DomOS system controls the lights in the whole plant: 55 ON-OFF lights points and 6 dimmable lights in the offices. The commands are given by buttons or PC, Smartphone, Tablet. Through a sequence (scenario) at 9 pm of each day the system forces the shutdown of the lights of the entire production site to avoid unnecessary waste.

### MANAGEMENT OF THE ALARMS FROM DISABLED PEOPLE'S BATHROOM

When you pull the alarm cord the system activates a visual and audible signal that remains until the specific reset button is pressed.

### TECHNICAL ALARMS MANAGEMENT

In case of alarm (lights circuit breakers trip, cold storages, boilers alarms, AHU machines, coolers, etc.) it's immediately reported on the domotics interface.

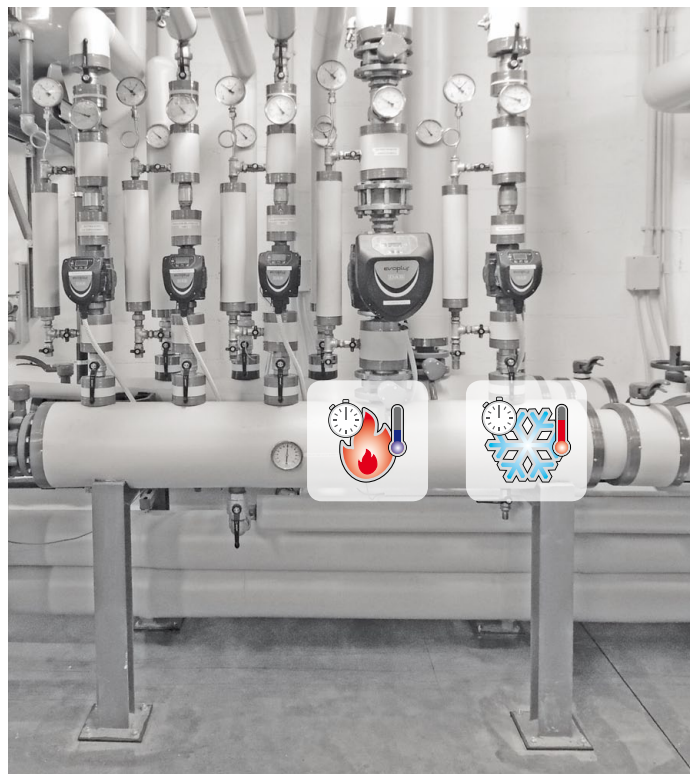


#### TEMPERATURES MANAGEMENT

The system activates the heating/cooling splitters only in special zones so as to avoid wasting energy. The plant manager, according to the production shifts, provides the customizations.

#### SYSTEMS INTEGRATED MANAGEMENT

The system manages the pumps consents, boilers, AHU machines and coolers depending on the activities scheduled in a specific area. Schedules are set based on the production cycles of the plant.



#### MANAGEMENT AND PROGRAMMING OF ALL FUNCTIONS VIA APP

Since the first contacts, the customer had stressed the need to manage the plant with simple and intuitive interface both locally and remotely. The complete system's management via App from PC, Smartphone and Tablet proves the optimal solution that adds value to the project.

#### POSSIBLE IMPLEMENTATIONS

##### PHOTOVOLTAIC SYSTEM INTEGRATED MANAGEMENT

DomOS is able to monitor in real time the produced energy by photovoltaic panels measuring and quantifying the self-consumed part or fed into the grid. The domotic system performs a count of obtained revenues based on specific rates of the contract. It is also able to calculate the efficiency of the plant and to provide alarm signals if the efficiency deviates too much from the theoretical one, or in case of inverter alarm.

##### ACCOUNT OF CONSUMPTIONS

The system can account the electricity consumption, gas and water for a specific production. The counting starts with a START button and stops with a STOP button. The counter values are integrated with those related to the date and time of start and end detection.



## BENEFITS ACHIEVED

Through Smartphone, Tablet and PC the final user can control and command the entire system in a simple and intuitive way from a unique interface, locally or remotely.

The DomOS Building system brings the control to a higher level resulting in the raising of the manufacturing plant's reliability.



Typically each device/machine to be controlled has a specific control unit that is not able to communicate with the outside world and the use of which requires a special technical knowledge.

DomOS creates a kind of bridge between all these equipments and doing so they can communicate and interact with each other. The programmable domotic system modules allow the management of all devices according to the logic that vary with the seasons, loads and working schedules, the solutions that save energy. This allow that the user can intervene using a unique interface with clear benefits in terms of time, usability, simplicity.



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