

# VENCE CENTER OF EXCELLENCE: CLIMATE CONTROL SYSTEMS

Developing customized control solutions and smart services for HVAC systems and plant room is the key activity at the Vence Center of Excellence.



## Connected services & energy measurements

Our engineers focus on developing and offering technical support for smart energy services. We bring technical support during the design & engineering phase on plant room and thermal energy storage projects. The team is also in charge of monitoring solutions, with more than 1,300 equipment connected. Their know-how is unique and proven with dual cooling/ heating and automation in-depth knowledge.

## Thermal Energy Storage (TES)

By storing the thermal energy during the night and releasing it during the day, the cutting-edge TES solution allows using the electricity at the lowest prices and avoids the peaks. By spreading the thermal energy production over 24 hours, TES can reduce the capacity of the chillers by 30% to 70%. 100% smart grid compatible, it is suited for HVAC systems with a peak cooling demand higher than ~500 kW. Our engineers optimize the design, adapt the hydraulic layout and the operation of your installation for each application.

## Test platform

The Vence Center of Excellence has several test platforms, designed specifically for the development of innovative solutions for HVAC systems. Simulations are performed in real operating conditions and allow our engineers to check the efficiency of control systems.

## R&D connections

The Vence Center of Excellence works closely with Europe's leading Science Park, located in Sophia-Antipolis in southern France. Our teams are frequently involved in major European research and innovation projects.



**+ 1,300**

Connected equipment



**+ 3,000**

Customers



**+ 500 MW**

Electricity saved



**+ 6,000,000 KWH**

Daily transfer