

The Healthcare Landscape

According to the World Health Organization, the number of people aged 65 or more is projected to nearly triple to about 1.5 billion in 2050, while the United Nations expects the world population to reach the 9.8 billion in 2025. In this critical environment, healthcare costs and demands are expected to escalate at a rate never seen before and we are only just beginning to recognize the impact of this demographic force.

Deliver Better Care While Enabling Energy Savings

As we get ready for this new demographic reality, technology is bringing innovation at every level to healthcare, helping organizations plan their next moves in an environment that continually demands that you:

- **Ensure a reliable service to customers**, achieving higher levels of availability, efficiency and, particularly, scalability
- **Offer improved and expanded services** to patients, visitors and operative personnel
- **Enable energy saving and lower operating costs**
- **Improve performance and guarantee uptime**
- **Allow full digitization** to support the increasing usage of electronic instruments in healthcare



VERTIV™

**SMART ENERGY
SOLUTIONS
TO IMPROVE
EFFICIENCY
IN HEALTHCARE**



VERTIV™

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Smart Energy Solutions to Improve Your Efficiency

We are ready to help you move to this new wave of Information Technology adoption **guaranteeing performance, reliability and cost-effectiveness** while **ensuring safety and high levels of patient care**. We have the expertise to develop solutions, for **reliable, cost-effective power continuity** for the most critical applications:

- **Online double conversion Uninterruptible Power Supply (UPS)** to protect against the full range of power disturbances
- **Thermal management systems** to keep Information Technology temperatures, humidity and air quality in safe operating ranges
- **Monitoring systems to increase visibility into system performance**, enable more effective preventive maintenance and speed response to equipment issues
- **Integrated systems interfaced with buildings' monitoring systems** to control electrical supply and back-up generators

Our Life-Critical and Non-Critical systems, combined with customized solutions, are an established part of the public and private healthcare industry, which are used in healthcare ICT for **data center** and **administration networks**, in **clinical applications** such as **laboratory equipment** and **diagnostic imaging systems**, as well as to **support the main building power supply**.

Streamline Your Power Solutions and Reduce Electrical Consumption

Peak shaving is a technique deployed to compensate demand of peak electrical power, consumed by typical loads from the utility source. It helps in compensating peak demand and effective power utilization, significantly decreasing the penalties for the billing period.

Our control and monitoring technology provides an ideal system to **implement peak shaving savings across your network**, adding a smart control system that temporarily employs batteries as the source of energy during periods of utmost consumption.

Benefits:

- **Significant cost savings in electricity bills due to reduced peak demand.**
- **Eliminates the need for an expensive large capacity utility source for peak demand.**
- **Reduced capital costs in the electrical distribution system.**
- **Utilities reduce the OPEX associated with the generation of power during the peak period.**

Leverage Our Expertise at Every Phase of Your Project

As medical systems become seamlessly woven into the fabric of how healthcare is delivered, their continuous operation becomes increasingly critical, making it more difficult to meet current and future needs. Whether you're an energy manager, a CEO or a consultant, our dedicated project management team works with you to achieve your project time, cost and performance goals.

DESIGN

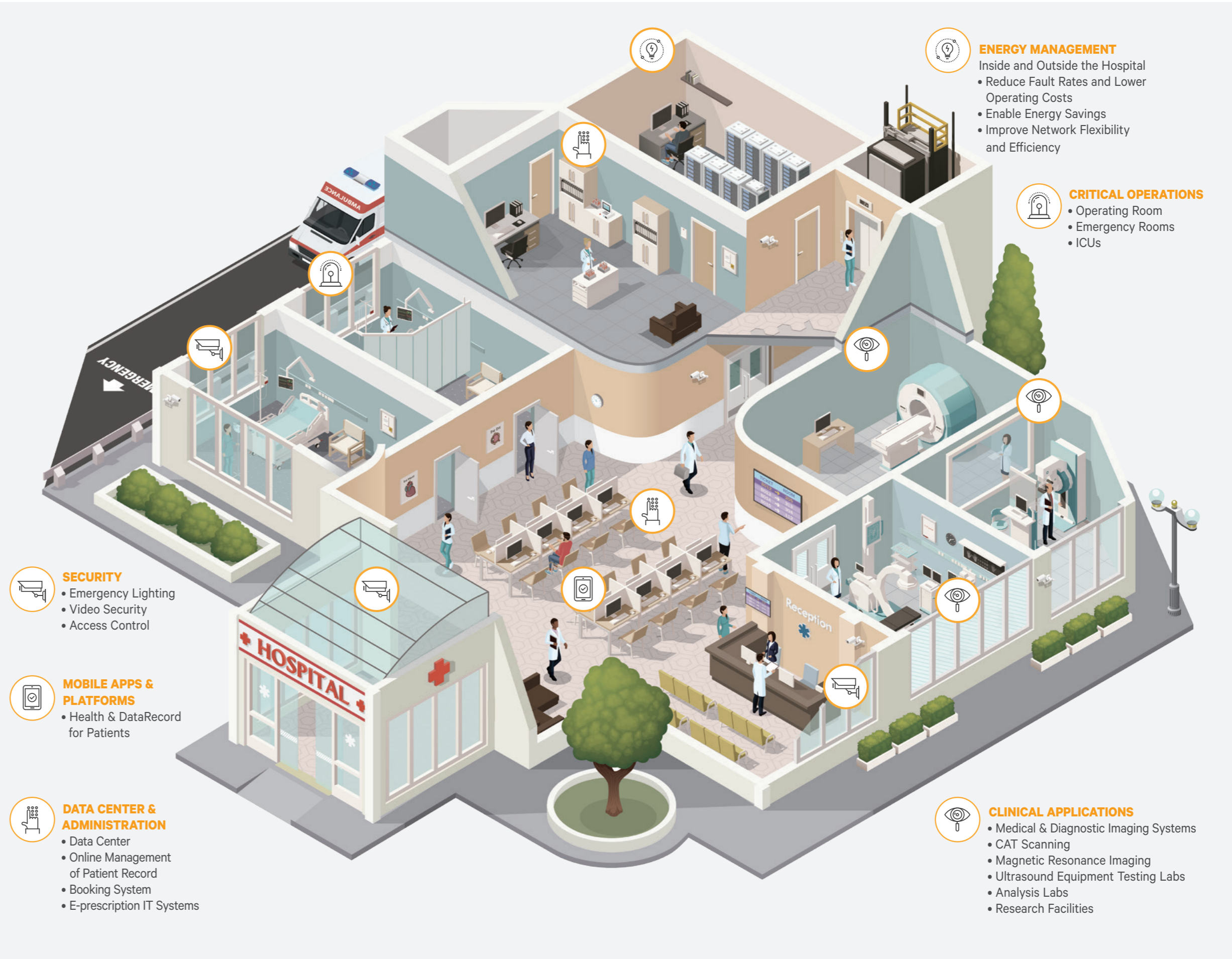
Regardless of your needs, we can help you create a successful design plan and work with you, your specifiers and installers to determine optimum solutions to meet your budget and operational needs.

DELIVER

When you're ready to implement your solution to scale, we can manage the details of transport, installation and site co-ordination directly with you, via the consultant-contractor route or through authorised resellers.

SUPPORT

Once your system is set up, our life-long service and technical support including remote monitoring and diagnostics, guarantees your system is maintained at an optimum state of readiness at all times, for your complete peace of mind.



ENERGY MANAGEMENT

- Inside and Outside the Hospital
- Reduce Fault Rates and Lower Operating Costs
- Enable Energy Savings
- Improve Network Flexibility and Efficiency

CRITICAL OPERATIONS

- Operating Room
- Emergency Rooms
- ICUs

SECURITY

- Emergency Lighting
- Video Security
- Access Control

MOBILE APPS & PLATFORMS

- Health & DataRecord for Patients

DATA CENTER & ADMINISTRATION

- Data Center
- Online Management of Patient Record
- Booking System
- E-prescription IT Systems

CLINICAL APPLICATIONS

- Medical & Diagnostic Imaging Systems
- CAT Scanning
- Magnetic Resonance Imaging
- Ultrasound Equipment Testing Labs
- Analysis Labs
- Research Facilities

VERTIV SUPPLIES A COMPLETE RANGE OF SOLUTIONS TO A NUMBER OF PUBLIC AND PRIVATE HEALTHCARE OPERATORS ACROSS THE WORLD, INCLUDING:

- **Aesculap**
Germany
- **Agencia Valenciana de la Salud**
Spain
- **Azienda Ospedaliero-Universitaria Careggi** - Italy
- **Azienda Ospedaliero-Universitaria Meyer** - Italy
- **CareFusion**
Germany
- **Carl Zeiss**
Germany
- **Clínica Universitaria de Navarra**
Spain
- **Fondazione San Raffaele**
Italy
- **GE Medical**
Germany
- **Grupo Werfen**
Spain
- **ISMETT**
Italy
- **Istituto Europeo di Oncologia IEO**
Italy
- **Istituto Ortopedico Rizzoli**
Italy
- **Medicana Health Group**
Turkey
- **Ospedale Fatebenefratelli**
Italy
- **Ospedale Niguarda Ca Granda**
Italy
- **Ospedale Pediatrico Bambin Gesù**
Italy
- **Philips Medical**
Russia
- **Policlinico Gemelli**
Italy
- **Policlinico Sant'Orsola**
Italy
- **Servicio Salud de Castilla La Mancha**
Spain
- **Siemens Healthcare**
Spain and Germany
- **Université de Médecine**
Paris Descartes - France