

Johnson Controls

Driving the outcomes that matter most in buildings and beyond



The power behind **your mission**





This is how we power your mission

Whether it's a clinical space where patients receive the best treatment, or a large-scale data center operating at maximum efficiency, Johnson Controls helps you—and those who rely on you—perform with excellence.

We are proud of our long legacy of helping customers in education, healthcare, government, technology, transportation and beyond achieve their goals and create a better, brighter future for us all.

End-to-end capabilities

We partner with you across your facility's lifecycle – design, finance, build, maintain, manage, retrofit and replace.

Partnering for success

We amplify our own capabilities by partnering with other technology leaders to seamlessly deliver world-class solutions for your business and industry.

Depth of experience

We are world leaders in building technology and solutions, bringing to every project, big and small, proven expertise earned over more than 130 years.

Technology innovation

We push digital technology forward every day, delivering innovations that deliver optimal building performance.

Global footprint

We deliver local service and solutions to meet your goals in over 150 countries around the world.

Impactful sustainability

We take sustainability seriously. We run our own operations sustainably and we make sure you have the products and services that ensure you can too.



Ready to work with us?

Johnson Controls has a vast network around the world – including in your community. Our representatives serve our customers every day with dedication and commitment. Contact us to find one in your area.
www.johnsoncontrols.com

From data centers that are prepared for any threat, to city power grids that talk to each other, from school kids raising their hands in tomorrow's classrooms, to hospitals that use data to save lives, our solutions power missions of all kinds to exceed expectations and deliver the outcomes that matter most.



Data Centers



Delivering on the promise of smarter, safer, more efficient and more resilient data centers.

Our products and solutions are found in the most demanding data centers in the world. From the hidden danger of loud fire suppression discharges to the sustainable solution of free cooling, our portfolio of integrated solutions helps minimize costs, maximize efficiency and optimize timing when speed matters.

Smart Cities



Connected communities are growing and offering improved services for citizens.

We help cities improve livability and competitiveness by creating secure, connected, technology-rich communities where people want to live, work and play. From large metro areas to small focused communities, we have the experience to drive change.

Healthcare



Superior patient experiences with safe, efficient and optimized buildings.

As healthcare continues to evolve, you face challenges that include balancing evolving service models and patient experience alongside clinical outcomes and competition for patients and staff. Your environment can support your mission. We're here to help you deliver.

Airports



Ensuring safety and seamless experiences for travelers, airport employees and visitors.

Every day, airport facilities need to operate at the highest level of safety, efficiency and reliability. We power this mission with technology solutions that deliver enhanced security, smoother traveler experiences and more cost-effective airport operations.

Higher Education



Focus on your core mission while we help you run smarter buildings and campuses.

On campuses across the world, administrators face the challenge of how to optimize campus environments, lower energy and operating costs, and reduce environmental impact while, at the same time, attracting students and recruiting faculty. Let us help you achieve these goals by creating quality learning environments.

Schools



Manage today's challenges while anticipating the building needs for a smarter tomorrow.

Intelligent infrastructure means well-lit, optimally ventilated learning environments that promote student success, while integrated communications and advanced visitor management are a few of the ways our technology keeps campuses safe. Let us help you deliver better learning environments.

Sports & Entertainment



No matter the sport, connecting with the event means happy, safe and comfortable fans.

We help sports and entertainment venue operators connect technology to boost fan experience and increase the bottom line. A connected venue strategy provides a winning combination for creating an entertainment and sports venue that is operationally smarter, safer and more sustainable.

Industrial



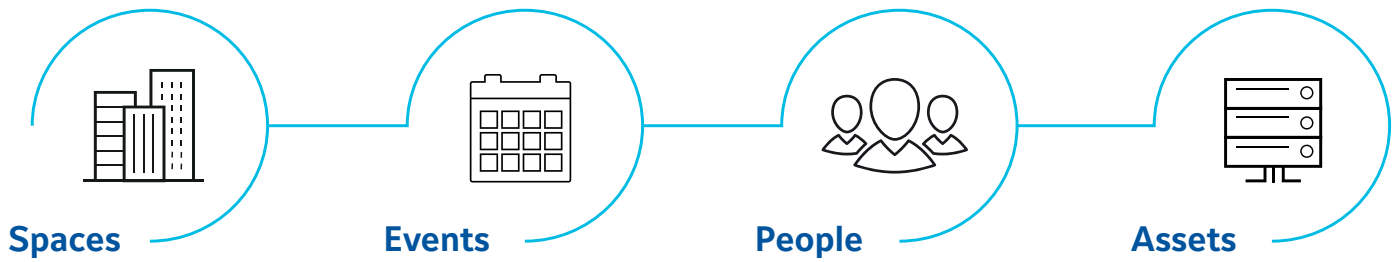
Manufacturing and processing in the right environment connects people, process and data.

That's what it takes to increase productivity, yield and shareholder value. We've got the integrated products, systems and services that will provide measurable results and reduce risk. Full lifecycle manufacturing solutions increase operational efficiency, reduce risk, compress project timelines, and lower costs so quality products go out the door.

We power your Digital Transformation

Buildings are ecosystems of spaces, events, people and assets that add value and enable your organization's mission.

Harnessing data from inside and outside of buildings, we can optimize building performance, safety and comfort, create unique smart experiences for occupants, enhance business productivity, drive energy efficiency and power your mission.



Bringing together our leading expertise with a collection of data platforms, applications, core building systems, smart edge devices, and ecosystem partners, we will partner with you to transform your buildings and actualize the outcomes your smart building can deliver:



Improved energy efficiency



Enhanced occupant experiences



Increased revenue impact



More protection



Increased productivity



Higher compliance



Better comfort



Simplified asset management

IoT Innovator of the Year

Johnson Controls was named IoT Innovator of the Year by the independent organization, *IoT Breakthrough*. The award recognizes global innovators, leaders and visionaries in IoT, and we were recognized as the leading innovator in the IoT industry for driving digital transformation through our broad portfolio of industrial IoT and digital solutions.



Delivering the Future in Commercial Offices

Bee'ah Environmental Management Company, Sharjah, United Arab Emirates



Bee'ah's goals are to create a sustainable future using their headquarters as a showcase for how technology helps to create experiences that improve productivity. The site will leverage new capabilities enabled by IoT, Big Data, Cloud, AI, and natural language processing (NLP).

Improved efficiency

Goals of 0% carbon emissions, 20% less water use and 5% less energy use.

Increased productivity

Using AI expertise to unify building management, security and employee systems.

Enhanced occupant experiences

Using technology to enable and empower a 20% improvement in employee satisfaction.

Powering Higher Education

University of Hawaii Community Colleges, Hawaii, USA



Hawaii community colleges sets its focus on sustainability and now have the largest distributed energy storage project in the U.S. as the first campuses to generate and store 100 percent renewable energy on site. This was paired with improved energy use through solar shade canopies, lighting and other facility improvements.

Increased revenue impact

Saved \$80 million through an energy retrofit and renewable energy solutions.

Improved efficiency

Reduced energy use by an average of over 80% across four campuses.

Enhanced occupant experiences

Deliver sustainability education programs to support student learning.

Driving Global Standards for Data Centers

Leading tech companies in Silicon Valley, USA



In mission-critical environments, security, reliability and responsiveness are everything. Our global Centers of Excellence work with leading technology companies to power faster deployments, advanced security, cutting-edge cooling and specialized fire suppression. Our integrated solutions deliver data centers for today and tomorrow, delivering on our customers' efficiency, cyber security and sustainability goals.

Increased revenue impact

Driving ROI means actualizing peak operating performance, prioritizing speed and standardization.

Improved energy efficiency

Industry-leading HVAC technology saves up to 30% on energy and offers a pPUE of less than 1.1.

More protection

Converged cyber-physical security solutions protect against insiders, intruders, cyber & other security risks.

Delivering Better Patient Outcomes

Ng Teng Fong Hospital, Singapore



Offering flexible, modular and integrated healthcare patient-centered services is a core focus at this medical complex. From entering the emergency room all the way to the medical processes after medical treatments, we power the optimally-managed healing environment that leads to measurable, improved patient experiences.

Enhanced occupant experiences

3X increase in survival rate of patients with cardiac arrest.

Increased productivity

Seamless integration to optimize day-to-day workflow and emergency response capabilities.

Increased revenue impact

Close to \$4m energy savings and 68,000 cubic meters of water are saved each year.

Let's Create a Sustainable Future

From the way we run our manufacturing plants to the work we do with our customers, we are constantly looking for new and innovative ways to ensure a more sustainable future for our planet.

100%

diversion rate and certified as zero-landfill at 17 manufacturing locations around the world

25%

reduction in energy intensity for all Johnson Controls operated facilities by 2025

25%

of Johnson Controls manufacturing locations will be certified landfill free

10%

reduced water consumption at our water-stressed facilities by 2025

Data Center Eco-Sustainability Award



This award from Data Center Dynamics recognizes innovative and pioneering approaches to sustainability through the design or major retrofit of a data center facility. Johnson Controls partnered with the National Renewable Energy Labs (NREL), who earned this award. NREL's win confirms its claim that the lab's high-performance computing data center featuring the Johnson Controls BlueStream thermosyphon hybrid cooling system is the most energy efficient in the world.

Project of the Year Award & Top Project Judges' Choice Award



Johnson Controls received awards for its partnership with the University of Hawaii Maui College. Both awards, from *Environmental Leader* and *Energy Manager Today*, recognize the most innovative and successful products, projects and companies in the energy, environmental and sustainability industry, selecting winners based on the success of their project, capabilities of their product, or by its impact on the industry. The judges recognized Johnson Controls' partnership with UH Maui as the top environmental project of the year for its impressive strides in sustainability and renewable energy.

Johnson Controls is a leader in global sustainability, recognized as one of the World's Most Ethical Companies by Ethisphere. A few of the awards we have received:



Named one of the 100 Best Corporate Citizens by Corporate Responsibility Magazine for the 13th year in row



Recognized as a goal achiever in the Better Buildings, Better Plants Challenge



Named to Fortune Magazine's 2018 "Change the World" list

The largest portfolio of building products, technologies, software and services

Building Management

- Building automation system
- Enterprise management & space performance
- Occupant and visitor app
- AI-powered personal concierge service
- Central plant optimization
- Hyper-converged infrastructure
- Data analytics platform
- Smart connected chillers
- Building, security and energy management
- Care communications

Fire Detection

- Incident management
- Voice alarm
- Fire evacuation
- Fire/smoke detection
- Emergency lighting
- Digital addressable fire panel
- Gas detection
- Shot detection

Controls

- Actuators & valves
- Sensors & thermostats
- Commercial refrigeration controls
- Specialty & critical environment controls
- Industrial refrigeration controls

Security

- Advanced video analysis
- Integrated operations center (PSIM)
- Digital CCTV surveillance
- Cyber security
- Access controls (doors, gates, elevators)
- Perimeter protection
- Intruder detection
- People counting
- Handheld access control
- Converged security
- Queue monitoring
- False alarm reduction
- Insider threat security
- Standard operating procedure management
- Public address, evacuation systems
- Alarm monitoring

HVAC & R

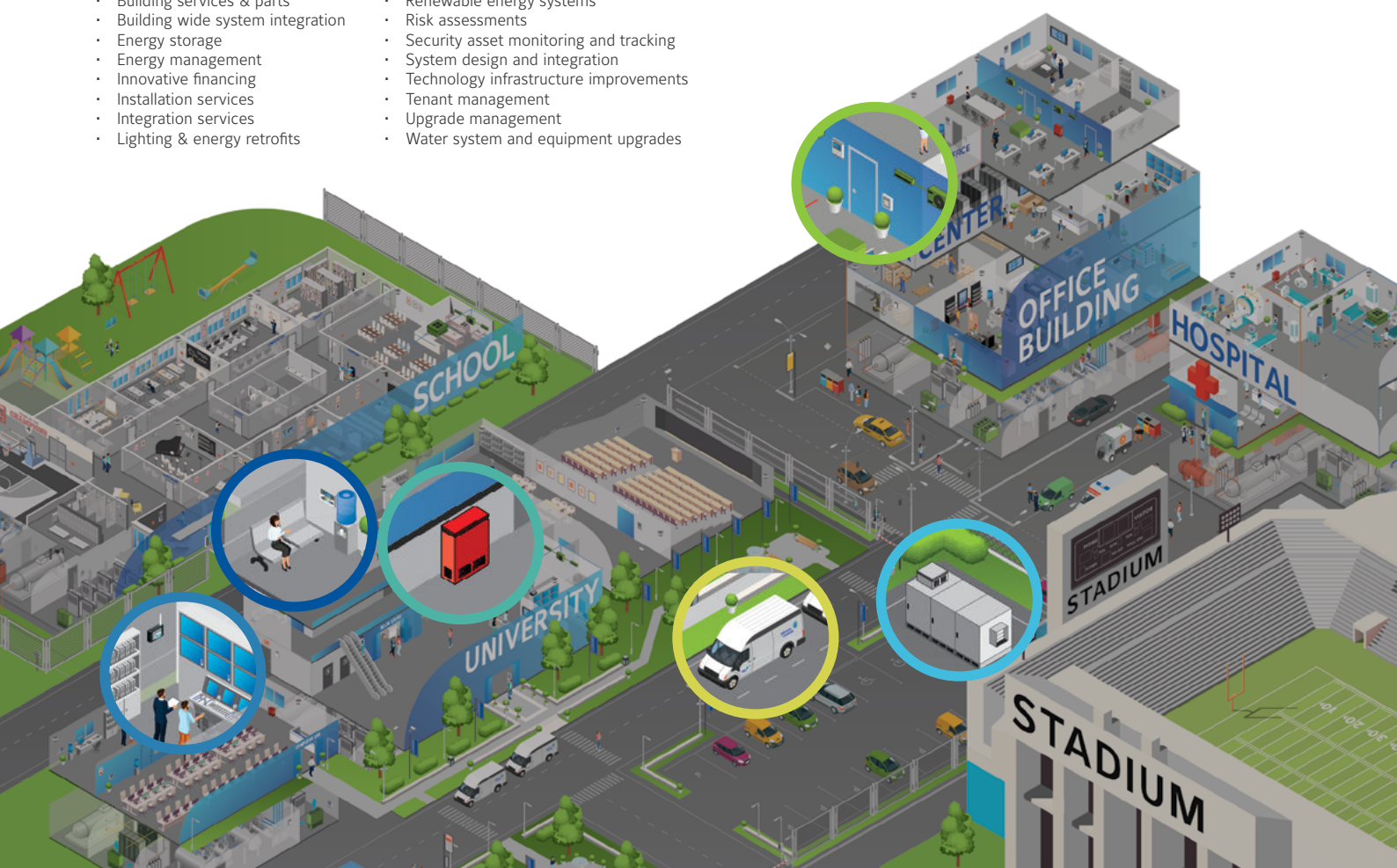
- Air-cooled and water-cooled chillers
- Absorption chillers
- Rooftop units, evaporators, ventilators
- Fans/Exhaust
- Variable refrigerant flow (VRF)
- Chilled beam
- Packaged, split and mini-split ducted systems
- Hybrid cooling systems
- Fan coil (terminal unit)
- Air handling units and coils
- Grills, registers and diffusers
- Heat pumps
- Air flow measuring stations
- VAV boxes
- Industrial refrigeration header
- Hygienic air handlers
- Compressor packages
- Condensers and evaporators
- Low charge ammonia system
- Heat exchangers
- Replacement parts
- Vessels
- Variable speed drives

Services & Solutions

- 24/7 managed services/alarm monitoring
- Advanced vibration evaluation
- Building asset mapping & health monitoring
- Building services & parts
- Building wide system integration
- Energy storage
- Energy management
- Innovative financing
- Installation services
- Integration services
- Lighting & energy retrofits
- Maintenance management
- Operations and Maintenance
- Operational intelligence & loss prevention
- Performance infrastructure improvements
- Predictive maintenance
- Renewable energy systems
- Risk assessments
- Security asset monitoring and tracking
- System design and integration
- Technology infrastructure improvements
- Tenant management
- Upgrade management
- Water system and equipment upgrades

Fire Suppression

- Sprinklers and valves
- Sprinkler system design software
- Grooved piping products
- Water mist systems
- Restaurant systems
- Vehicle systems
- Gaseous suppression systems
- Foam concentrates and hardware
- Portable fire extinguishers



When you partner with Johnson Controls, we treat your mission as our own. We put our deep expertise, leading technology and world-class products to work for you, never resting until you achieve your goals.

Whether your mission is to heal, teach, create or connect, Johnson Controls can help you achieve it.

Learn more when you visit us

www.johnsoncontrols.com

Some of our famous brands

tyco **YORK** **METASYS** **Simplex** **ANSUL**

Find the next generation of smart building technology at these links:

Smart Buildings



Smart Cities



Data Centers



Healthcare



Higher Education



Schools



Sports & Entertainment



Industrial



Transportation



The power behind **your mission**

