

Johnson Controls Solutions for a Safe and Sustainable Future



The power behind **your mission**





Delivering secure, connected and resilient communities to mitigate future threats to our lives

In the context of the 21st century global marketplace, all countries must find new ways to build a sustainable and robust economic and social infrastructure.

Together, we must reinvent an optimal living, visiting, and working experience for all citizens, and build sustainable and efficient environments where they can live and feel safe every day.

The spectacular development of globalization and urbanization since the middle of the 20th century has shaped our world societies and economies in depth. Today, it is estimated that 55 percent of people worldwide live in urban areas. By 2040, this is expected to rise to 70 percent. With more people migrating to cities, and with international flows of capital, goods, information, and people higher than at any time in our history, our societies are facing inflating demands on spaces, energy and infrastructure, and unprecedented pandemic risks.

To respond to these challenges, four priorities must be considered urgently:

- Creating healthy and safe living and working environments.
- Enabling a robust and scalable healthcare system to face infection surges, and protect the weakest and elderly.
- Adapting public infrastructure to the new hygiene and social distancing needs, and enabling enforcement in public transportations, retail, stadiums, etc., whilst maintaining a seamless user experience and a high level of infrastructure performance.
- Improving resilience and reducing vulnerability of global supply chains through diversified and flexible production, manufacturing and distributions infrastructure footprints, in particular for critical manufactured goods such as Protective Personal Equipment, medicine, food, etc.

At Johnson Controls, we help cities and communities meet this growing demand by creating secure, connected and resilient environments. From large metro areas to smaller communities, we have the experience to help transform the spaces and places where people live, work and serve.

Together, we can build a safe and sustainable future.



Why choose Johnson Controls to reinvent a sustainable future

Whether it's a clinical space where patients receive the best treatment, or a shopping center looking at offering a seamless customer experience to its visitors, Johnson Controls helps you – and those who rely on you – perform with excellence and in safety.

Johnson Controls is a global leader in building technologies, with more than 100,000 experts globally, who deliver on our customers' missions in industries such as healthcare, education, data centers and manufacturing, and support our communities in adapting to the new constraints. We were on the front lines when the COVID-19 pandemic broke out, fully engaged to support the Healthcare industry in the crisis. We have the technology capabilities to help companies, schools and public facilities to get buildings comply to hygiene and social distance guidelines and be ready for a restart of the economy. 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.

Smart technology innovation

We push digital technology forward every day, delivering innovations that provide optimal building performance, safety and peace of mind.

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

Some of our latest innovative services and solutions to deliver a safe and sustainable future

Enhanced Security Technologies

Backed by more than 100 years in protecting people and places, Johnson Controls can leverage on the breadth of his portfolio to enable a safe and seamless user experience whilst enforcing hygiene and social distancing, in all types of buildings and facilities. Our solutions include:

- Anti-viral entry system to ensure every visitor has sanitized their hands before entering a building or room;
- Thermal video solutions⁽¹⁾, including body temperature sensing;
- Frictionless access control;
- Traffic Intelligence solutions to count people and optimize indoor flow.



Sanitizing Tunnels

Disinfecting passageways for human use.
Killing 99.999% of viruses, bacteria, mold, fungi, and spores.

- Sanitizing tunnels is super oxidized water Hypochlorous acid (HOCl)
- Manufactured from 100% natural resources
- No chemicals or toxic content.



Fever Detection System

Benefits of thermal detection systems:

- Accurate face tracking in real time
- Multiple detections at once
- Bi-spectrum dual channel all-weather real-time monitoring
- Highly accurate temperature detection
- Non-invasive fever detection



⁽¹⁾ Thermal detection devices are not intended to diagnose or monitor any medical condition or illness, and should not be used as such. They are supplied as a first-line filter for organisations that wish to identify those entering premises who may have an elevated body temperature. It is then for the organisation to determine how that information is used, and the appropriate reaction to that information. Competent medical advice should be sought if there are concerns around illness, and further checks will be required.

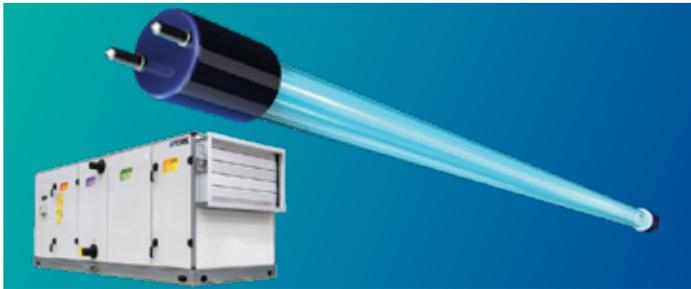
Make your buildings ready for the future

Ultraviolet (UV) Lighting

Solutions to make your home and workplace cleaner, healthier and free from common odors and pollutants.

- Improves IAQ
- Reduces sickness and absenteeism
- Increases productivity

UVC energy fields generated in air conditioning systems create a barrier that eliminates the droplet nuclei from viruses.



Modular Solutions

Smart solutions for capacity expansion

- Increase patient capacity of isolation rooms
- Expand Intensive Care Unit (ICU)
- Temporary or permanent screening rooms/laboratories
- Rapidly expand office space for field and emergency work
- Easily relocate supermarkets

Creating the fast, flexible and customizable facilities you need.



Modular Data Center

A flexible, safe and easily accessible data center.

- Communication or data centers designed using modular facilities.
- Deploying secure solutions including full equipment.
- Rapid Expansion – eliminates complicated construction timelines and higher TCO.
- Easily be relocated from site to site.
- Remote Locations deployment.



Contact Tracing and risk assessment

Location Based Services contact tracing report.

- Two-week history and time duration
- Contact Tracing and personal contact
- Contact Tracing and shared spaces
- Contact Tracing and low risk contraction
- Quick and easy installation – wireless infrastructure
- Targeted areas for decontamination
- Social distance monitoring



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 19 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



100 Best Corporate Citizens

Johnson Controls has been named for the 13th year in a row to Corporate Responsibility (CR) Magazine's annual "100 Best Corporate Citizens List." Our company was ranked in seven key areas: climate change, employee relations, environment, financial, governance, human rights, and stakeholders and society. The 100 Best Corporate Citizens list ranked the 1,000 largest U.S. publicly-traded companies for outstanding environmental, social and governance (ESG) disclosure and performance.



2020 Carbon Clean 200 by Corporate Knights

Carbon Clean 200 ranks the publicly traded companies that are leading the way with solutions for the transition to a clean energy future. The Clean 200 companies are listed by their estimated green revenues in USD.

Larry Fink, the CEO of the largest investment firm in the world, shook up Wall Street stating that we are "on the edge of a fundamental reshaping of finance" with climate change as a defining feature, that "climate risk in investing risk...in the near future - and sooner than most anticipate - there will be a significant reallocation of capital." Johnson Controls has been honored to be named with this award since 2016.

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 & Industrial refrigeration controls
- Specialty & critical environment 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 & traffic intelligence
- Handheld access control
- Converged security
- Queue monitoring

- Anti-viral entry system
- Thermal detection
- Insider threat security
- 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

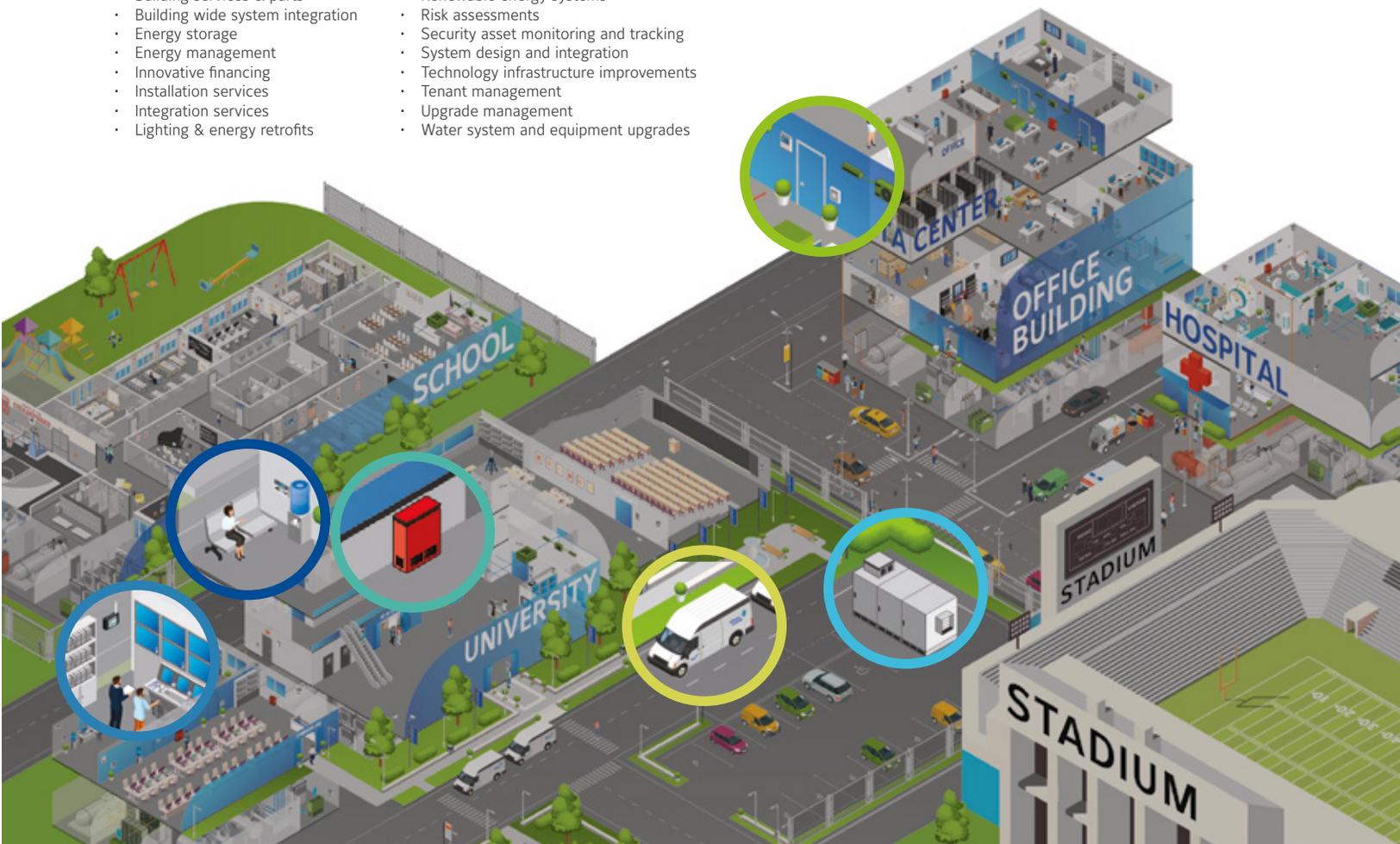
- Low charge ammonia system
- Heat exchangers
- Replacement parts
- Vessels
- Variable speed drives

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



We provide the next generation of intelligent building technology for these industries:

- Smart Buildings 
- Smart Cities 
- Data Centers 
- Healthcare 
- Higher Education 
- Schools 
- Sports & Entertainment 
- Industrial 
- Airports 

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