



# How access solutions can positively impact your sustainability strategy

**ASSA ABLOY**  
Opening Solutions

Experience a safer  
and more open world



# Greener buildings and energy-saving solutions

Every business feels and understands the pressure to improve their sustainability performance, including by using lower-carbon products and reducing energy consumption. According to the IEA, buildings consume around 30% of global energy.\* Examining energy use at every stage of your building's life can make a real – and immediate – impact.

Keeping your buildings secure is more important than ever. So modernizing them with one, or a combination, of our certified, energy-efficient access solutions makes business and sustainability sense.

We made energy efficiency a driving force behind the development, design and manufacturing of our innovations.

Solutions like energy harvesting technology, mobile keys and energy efficient devices help enhance your sustainability performance right away. And equip you with the flexibility for challenges to come.

*“89% of security professionals consider energy efficiency and sustainability important in procurement”*

IFSEC Insider,  
“Wireless Access Control Report 2023”

\*[www.iea.org/reports/buildings](http://www.iea.org/reports/buildings)



DISCOVER MORE ABOUT OUR ENERGY-SAVING ACCESS SOLUTIONS

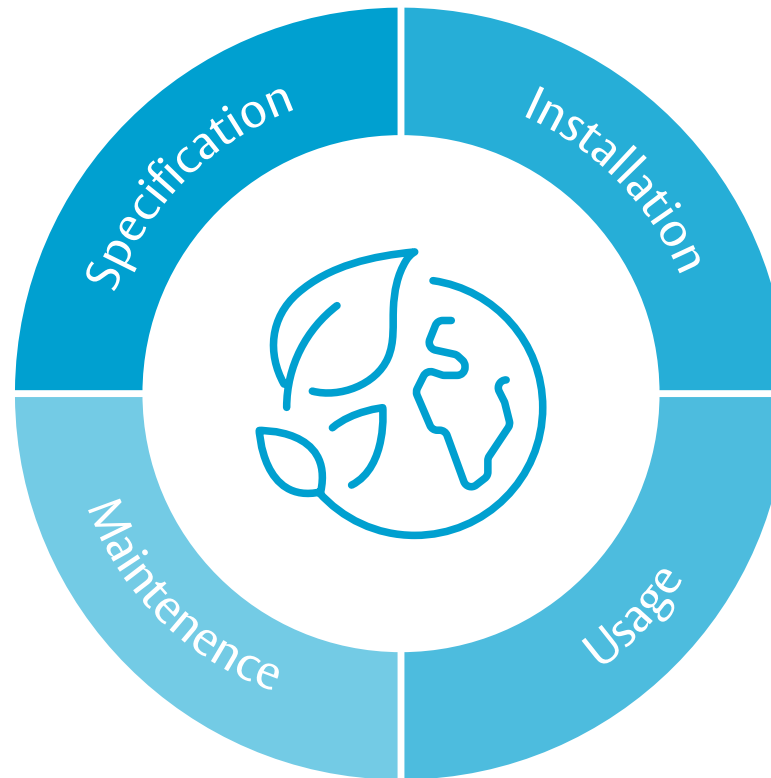
# Our access solutions can improve sustainability performance and efficiency at every stage of the building cycle

## Specification

Gain in-depth knowledge of standards, including for green building certification, and enjoy expert support from an ASSA ABLOY team local to you. Deploy devices designed and built using innovative processes with embedded sustainability principles.

## Maintenance

Go wireless for a lighter footprint, reduced maintenance and easy modifications. Devices may be moved when reconfiguring workspaces. Energy-harvesting locks don't need specialist electrical checks or battery changes.



## Installation

Retrofit existing buildings – or implement access control for the first time – without wiring or drilling around the door, and so using less materials. Fast fitting means fewer installer journeys.

## Usage

Choose electronic locks which do not require an electricity connection, and only 'wake up' when needed. Wireless devices draw much less power than equivalent wired locks. Door closers and drop seals boost thermal efficiency.

For detailed analysis of each cycle stage, refer to the specified pages.



# Stage 1: Specification

## Working together to create leaner, greener buildings

The specification of building design and construction presents challenges and major opportunities. Partnering with us for quick, accurate specification saves you money and time. Environmental Product Declarations (EPDs) have the detail you need to meet carbon and energy-performance standards.

As an official partner in the World Green Building Council's Europe Regional Network, we believe in our mission to transfer sustainability knowledge to the wider access control market.

We manufacture and supply products for almost any building or opening and have in-depth knowledge of standards in your region.

To meet the demand for greener buildings, we can also support you in achieving green building certifications such as BREEAM®, LEED®, GreenStar, WELL Building Standard®, DGNB and HQE™.

[MORE INFORMATION ON AVAILABLE DOWNLOADS SEE PAGE 12](#)



## Case study

### ASSA ABLOY partnership brings innovative and sustainable solutions to property development

Project: **Modern office building format**

Type: **Public buildings**

Location: **Gdansk, Poland**

This property developer had a goal to gain the highest level of LEED certification for all Torus-led developments around Gdansk, starting with this project. They wanted to find a security partner with experience supporting green certification and specification.

It was important that the chosen products have Environmental Product Declarations and Green Circle documentation. Also to utilize access control solutions which reduce both carbon footprint and energy costs.

The solution was to partner with ASSA ABLOY, who made sure all criteria were met and that chosen products contributed to the LEED certified project – Aperio battery-powered devices which secure doors consume much less energy during installation and operation than a comparable wired solution.

“Wireless access control solutions, such as energy-efficient Aperio handles, provide a high level of security, enable integration with other systems, and read many technologies including mobile credentials.” **Roman Sokolowski, Torus.**





## Stage 2: Installation

# Simpler, faster and fewer materials

Fitting without any cabling around the door means installation teams travel fewer miles between sites, using less fuel. Wireless technology offers digital access management and is also less disruptive to the building fabric and **less energy-intensive**. Many ASSA ABLOY electronic and electromechanical door devices require **minimal (or no) drilling** to mount and initiate.

### Wireless locks

Installing a battery powered **Aperio®** or **SMARTair™** wireless device demands little or no drilling around the door. It's equally easy to also equip cabinets, lockers and more with wireless locks and to move devices around if your workspace needs reconfiguring.



### Smart cylinders and keys

With **CLIQ®** and **ASSA ABLOY PULSE** devices, an installer simply swaps out the existing mechanical cylinder for a new electronic or electromechanical cylinder – just one screw is needed. It's fast, easy and uses almost no materials.



### Door closers

A symmetric cam design, height-adjustable spindle and drilling templates enable faster fitting, which means fewer installer journeys to and from the site. Training can be provided to in-house staff to easily maintain **ASSA ABLOY Cam-Motion®** performance.



# Case studies

## Matching access control technology to a university with an award-winning track record in sustainability

Project: **University of St Andrews**

Type: **Student accommodation**

Location: **St Andrews, Scotland**

As the home of the St. Andrews Prize for the Environment, the university wanted to modernize access control with a system that matched their sustainability ethos.

They installed Aperio battery-powered, wire-free electronic locks for almost 1,700 student bedrooms. This gave them energy-saving benefits at key stages, from the little amount of energy needed to install them, to consuming no energy when idle, and minimal maintenance with a battery change roughly every 2 years.

## The efficiency benefits of high-performance Door Closers

Project: **University of Edinburgh**

Type: **Education, Healthcare & Research**

Location: **Edinburgh, Scotland**

To improve security, thermal efficiency and fire protection, this historic institution wanted to standardize and enhance the quality of its door closers across their vast estates portfolio.

ASSA ABLOY door closers with Cam-Motion technology make sure doors shut tight behind everyone that passes through them. In addition, it was easy to train staff on how to install and adjust them for maximum efficiency.



# Stage 3: Usage

## Less energy every day



No key handovers



Energy-harvesting



Digital credentials



Thermal efficiency

In use, ASSA ABLOY access control devices **keep energy consumption low**. Battery-powered locks only 'wake up' when presented with a credential, saving energy over equivalent wired technologies. Energy consumption during operation is entirely eliminated in locks using energy-harvesting technology or through enhanced thermal efficiency from closed doors.

### Wireless locks

According to one benchmarking report, wireless locks like **Aperio** and **SMARTair** may save up to 70% in operating costs over their lifetime, when compared with equivalent wired locking devices.\* Going keyless saves resources when credentials go missing. Digital keys on smartphones use no physical materials.



\* [www.assaabloy.com/group/emeia/campaigns/aperio-cost-savings](http://www.assaabloy.com/group/emeia/campaigns/aperio-cost-savings)

### Smart cylinders and keys

**CLIQ Connect** keys are programmable via a Bluetooth connection with a smartphone, saving unnecessary journeys for mobile workers who need to update access on the move. **PULSE** self-powered devices do not need batteries or any external electricity source — their electronics are powered by energy-harvesting technology.



### Door closers

Every open door wastes energy. **ASSA ABLOY Door Closers** with Cam-Motion® technology make sure doors close behind everyone who passes through. They keep warm or cool air inside and drastically reduce the need for continuous heating or cooling. A closed door boosts thermal efficiency.





## Case study

### Access management for a building at the forefront of sustainable construction

Project: **A Place To**

Type: **Multi-residential**

Location: **Esbjerg, Denmark**

The developer of these 400+ apartments is a Premium Member of Green Building Council Denmark, an organization which promotes sustainable construction. They place a strong focus on the life cycle of their buildings.

With PULSE's self-powered, energy-harvesting technology, doors and other devices operate without any external energy source. Incedo software allows the facilities manager to update anyone's access permissions online via the cloud-based platform.

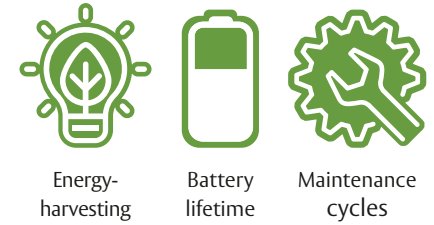
"We went for a future-proof solution which was maintenance-free and where we did not have to change batteries."

**Peter Høpfner, COO and Founder**



## Stage 4: Maintenance

### Less frequent, non-invasive and more cost-efficient



ASSA ABLOY access solutions are designed for durability and reliability, which **minimizes ongoing maintenance needs**. Devices and keys powered by standard batteries are optimized for long battery life – with no callout required to change the battery. Wire-free operation also means simpler maintenance checks, with no need for an electrical specialist.

#### Wireless locks

**Aperio** and **SMARTair** digital locking devices are powered by standard batteries with a 2-year lifetime (typical use), which are easy to change. In addition, because these systems are keyless, when someone loses their credential, it's fixed with a few clicks – not an expensive lock change and rekeying process.



#### Smart cylinders and keys

**ASSA ABLOY PULSE** cylinders are powered solely by harvesting energy from key thrust into the lock – no batteries and no wires. Electronic **eCLIQ** cylinders have an integrated lubricant reservoir so they remain maintenance-free for up to 200,000 cycles; the key's battery has a typical life of up to 10 years.



#### Door closers

**ASSA ABLOY Cam-Motion® Door Closers** are engineered to minimize the need for maintenance. Manual adjustments to maintain performance are easily made by in-house teams. Closer valves have metal heads and are thermo-resistant. Once door speeds are set, they stay set until modified.





## Case study

### Reducing ongoing maintenance with minimal on-site interventions

Project: **City of Quimper**

Type: **Public buildings**

Location: **Brittany, north-west France**

In Quimper, Brittany, officials adopted eCLIQ cylinders, an electronic locking system, to enhance security across municipal sites, including schools.

This solution, aligning with their public safety plan, addresses the loss of mechanical master-keys and streamlines access management, significantly lowering maintenance efforts. eCLIQ's key feature is its low maintenance, with locks powered by easily replaceable batteries in the smart key, reducing on-site maintenance needs.

This is beneficial for older buildings, minimizing retrofitting costs. The system also enhances security by allowing credential updates and incorporates RFID technology for comprehensive access control, offering a low-maintenance, integrated security solution.



# Learn more about trends in access control and sustainability

Published with IFSEC Insider and incorporating analysis from Omdia, the Wireless Access Control Report 2023 paints a comprehensive picture of today's access control market – and examines where it goes next.

The Report highlights ways security professionals can contribute to strategic business performance, including with sustainability improvements.

[DOWNLOAD THE FREE 24-PAGE REPORT NOW](#)



# Let ASSA ABLOY help with green building certification



Demand for green building certification is growing fast. ASSA ABLOY specification consultants based all over the world can provide any project with specialist knowledge about door solutions and how they contribute to leading certification schemes such as BREEAM, LEED and DGNB.

Our locally based experts can advise you on regulations and certifications around the door – and much more.

[LEARN MORE ABOUT GREEN BUILDING SPECIFICATION](#)





The ASSA ABLOY Group is the global leader in access solutions. Every day, we help billions of people experience a more open world.

ASSA ABLOY Opening Solutions leads the development within door openings and products for access solutions in homes, businesses and institutions. Our offering includes doors, door and window hardware, locks, access control and service.

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