



# PHYSICAL SECURITY SOLUTIONS FOR THE **POWER AND ENERGY SECTOR.**

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A **WHITE PAPER** POWERED BY BOON EDAM

  
**BOON EDAM**  
YOUR **ENTRY** EXPERTS.

## PHYSICAL PROTECTION OF COMPANIES AND FACILITIES WITH SECURE ENTRANCE SOLUTIONS.

### What are critical infrastructures?

Critical infrastructures are essential for daily life in our society. Their importance often only becomes apparent when there are disruptions. Therefore, a comprehensive approach to protecting these organisations and facilities is crucial to preventing interruptions in supply and significant disruptions to public safety.

### Possible consequences of failures or malfunctions:

- Economic damage due to cascading effects on related sectors and the economic cycle
- Supply bottlenecks due to disrupted supply chains
- Chaos in everyday processes
- Loss of confidence in security

### Critical sectors

Critical infrastructure typically includes facilities and services from the following sectors:

- Energy (electricity, gas, mineral oil)
- Transport and traffic
- Water
- Nutrition
- Information technology and telecommunications
- Finance and insurance
- Health
- Media and culture
- State and administration

### Security risks for organisations and institutions

Critical infrastructures must be protected against both everyday disruptions and extreme events. Examples of everyday security risks include technical failures or human error. In addition, the threat of terrorist attacks is growing, particularly on public systems and supply infrastructures. Cyberspace also represents a growing danger, where organisations are at risk from targeted attacks such as cyber sabotage or the introduction of malware.

### Dependencies and cascading effects

Since critical infrastructures are often interdependent, the failure of one system can have far-reaching consequences in other areas. For example, a large-scale power outage could impact almost all other sectors.

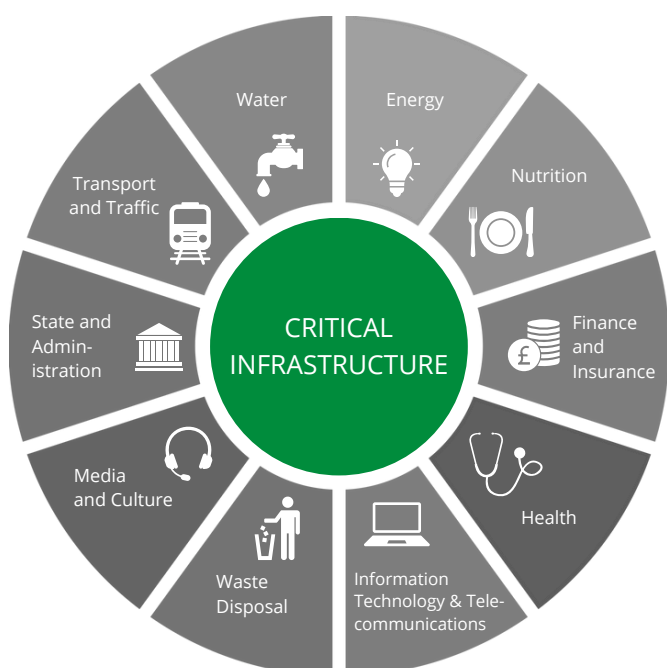
For example, a hospital relies on an uninterrupted energy supply because it cannot provide adequate medical care without electricity. Disruptions in one sector can lead to further disruptions or failures in other critical infrastructures.

### Laws and regulations

Many countries worldwide regulate the physical protection of critical facilities according to applicable laws. These laws set the minimum standards for these sectors of our economy to ensure a high standard of protection across the board.

### How can companies protect themselves?

Companies classified as critical infrastructure can improve their security measures, report incidents to higher levels, or demonstrate security standards. Physical security entrance solutions are a reliable measure to prevent unauthorised building access. Boon Edam offers entrance solutions with the highest security level so you can meet your legal requirements.







# 3-LAYER SECURITY FOR THE POWER AND ENERGY SECTOR.

## SECURE ACCESS SOLUTIONS

The energy sector, which provides electricity, gas, fuel, heating oil, and district heating, is crucial to the functioning of society. Ensuring a continuous energy supply involves prioritising safety, efficiency, and sustainability, while implementing protective measures to secure critical infrastructure against potential threats. A key aspect of security management is preventing unauthorised access. Successfully establishing security zones requires a multi-layered approach. High security standards must be implemented from the outside to effectively protect critical areas, facilities, systems and data.

### Layer 1: Main Entrance Building

Many properties, such as power stations, substations, or control centres, are located within building complexes. Revolving doors, or security revolving doors, are ideal for the main entrance and can be customised to the number of users. Options include revolving doors with additional security features or reinforced glass. This serves as the first line of defence in security.

### Layer 2: Entrance to the Secured Area

After passing through the main entrance, security sensor gates can be used in the building's lobby. These systems use sensor technology to monitor individuals moving through the gate. They prevent tailgating and detect attempts to climb over or crawl under, automatically alerting security personnel to potential breaches.

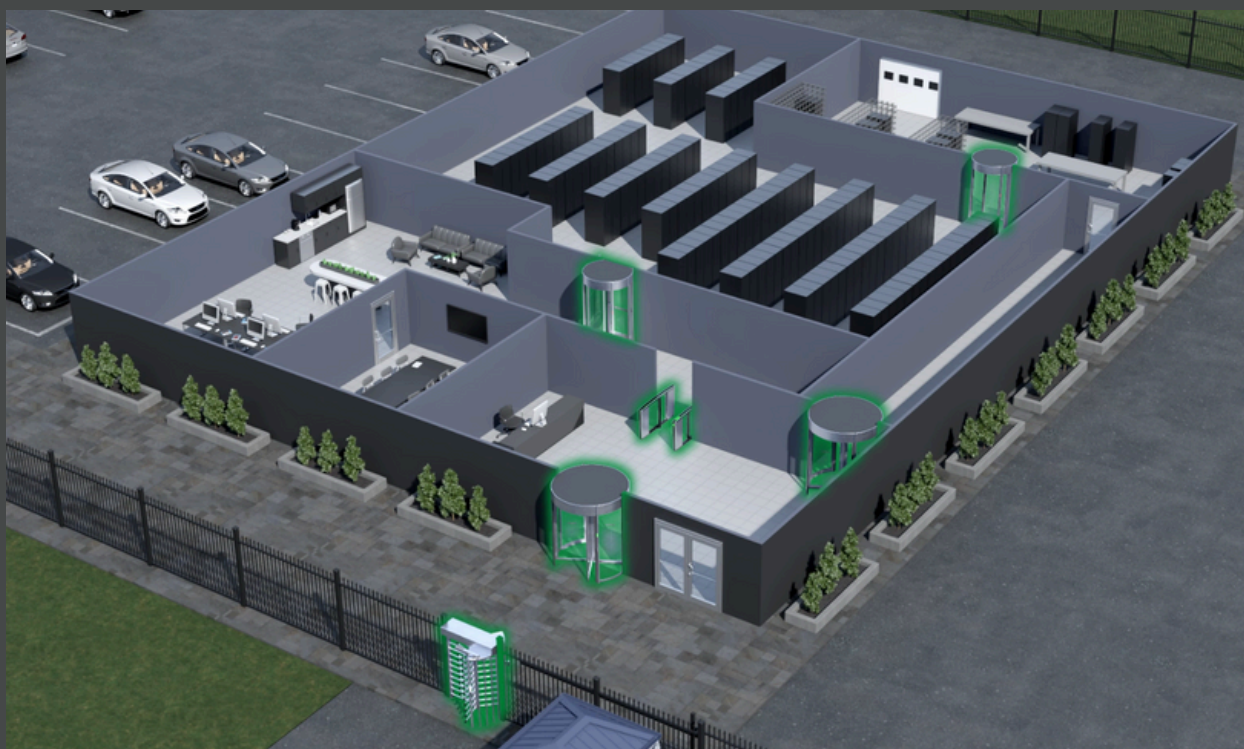
### Layer 3: High-Security Area

If an intruder manages to bypass the first two levels of security, it is critical to implement the highest level of protection for the systems and equipment inside. High-security portals employing biometric scans and overhead sensors can ensure that only authorised individuals gain access.

By utilising these layered security measures, the energy sector can effectively safeguard its critical infrastructure and ensure the continuous, safe supply of energy to society.



The operator is responsible for the protection of their systems.



## ACCESS CONTROL FOR YOUR PROPERTY

Our entrance solutions provide the highest level of security, meeting any potential legal requirements for critical infrastructures. Boon Edam high-security portals effectively manage the number and direction of people passing through, preventing security breaches like tailgating and piggybacking.

By integrating access control systems such as card readers, biometric devices, and sensors for single, two, or multi-factor authentication, we ensure that only authorised individuals gain access. Our innovative security solutions seamlessly integrate into your building's overall security concept, ensuring that all security components are coordinated for maximum protection.

## SECURITY SOLUTIONS FOR ENERGY BUILDINGS

At Boon Edam, we understand the effort and planning required to protect the assets and data within an energy building. That's why we offer highly reliable, highly secure entry solutions to minimise risks without compromising efficiency. Our energy building security solutions ensure that only authorised personnel gain entry, safeguarding your assets and data at all costs.

## THE BOON EDAM SOLUTION

- Tailor-made solutions: customised to meet your specific security requirements.
- High-quality manufacturing: produced in Boon Edam factories, ensuring the highest quality in function and materials.
- Comprehensive partnership: collaboration with an entrance expert from planning to installation and service. Boon Edam is your single source for the entire project.
- "Level Up" options: enhance security, personal protection or aesthetics with our advanced features:
  - Access software integration
  - Night closure option
  - Variety of glass protection
  - Biometrics integration
  - Escape and rescue routes
  - Accessibility modes
  - Emergency stop button
  - Touchless integration
  - And many more...

**LEVEL UP**



## LEVEL 1.

### TOURLOCK 180

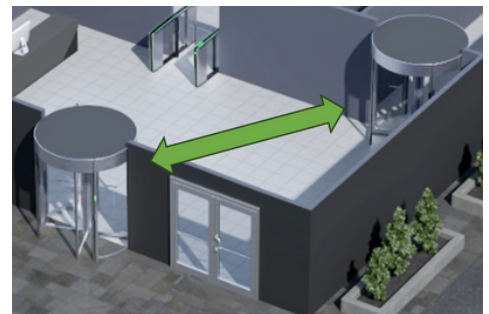
The Tourlock 180 revolving door offers the highest level of reliability and security, accommodating large numbers of people with ease. This versatile entrance solution can be adapted to the changing demands within a 24-hour operation cycle. Its four-wing design and intelligent functionality prevents unauthorised entry, protecting both people and equipment. Seamlessly integrating with access control systems, the Tourlock 180 provides robust security.

The Tourlock 180 allows simultaneous passage in both directions, enabling authorised users to enter and leave the building at the same time. Authorisation is managed through signals from an access control system, such as a card reader or biometric device. Only once this is confirmed will the door begin to rotate. Its advanced separation system effectively prevents tailgating and piggybacking attempts, eliminating the need for additional security personnel and reducing costs, making it a cost-effective solution.

When equipped with the modern integrated overhead sensor system, StereoVision, the Tourlock 180 offers unparalleled security. This cutting-edge technology detects whether one or more individuals are attempting to enter the secure area, ensuring maximum protection at all times.

#### ADVANTAGES OF THE TOURLOCK 180

- Supports simultaneous bi-directional traffic
- 4-wing configuration
- Piggybacking detection with StereoVision
- Prevents tailgating
- An optional emergency stop button to switch off and unlock the drive instantly, without any security compromise
- Pull release with a lock to release the door set in case of power failure



## 6 LEVEL 2. LIFELINE SPEEDLANE SWING

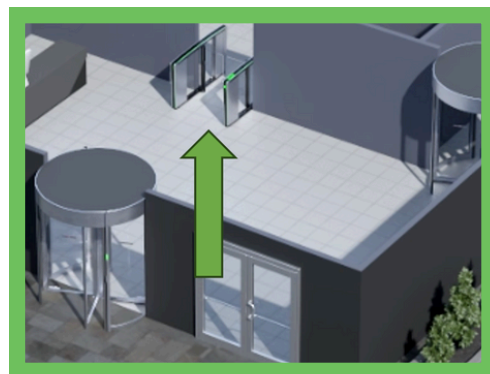
The Lifeline Speedlane Swing is the slimmest, most intuitive speed gate on the market today. Combining an attractive design with the latest technology, this medium-security sensor gate features a slim, ergonomic profile that allows installation in areas with limited space.

The smooth, premium glass housing of the sensor gates is further enhanced by intuitive, coloured LED lights that glide across the surface. These gates are highly customisable, offering a range of surface designs and functional options to suit any environment. They guide visitors seamlessly from the entrance through the authorisation process to the secure area of the building.

Secure access solutions like the Lifeline Speedlane Swing provide numerous benefits, including loss prevention, reducing workplace violence, and designating work areas. By automating many of the manual processes associated with security, our entrances enhance safety and streamline operations, making them an essential addition to any modern facility.

### BENEFITS OF THE LIFELINE SPEEDLANE SWING:

- Unique sensors detect approaching visitors
- Unauthorised user detection
- Tailgating prevention
- Flexible lane configurations
- Intuitive guiding LED light bar
- Energy-saving sleep mode
- Slim, V-shaped, tapered cabinets with ergonomic design and small footprint
- Smooth, swinging-motion glass barriers





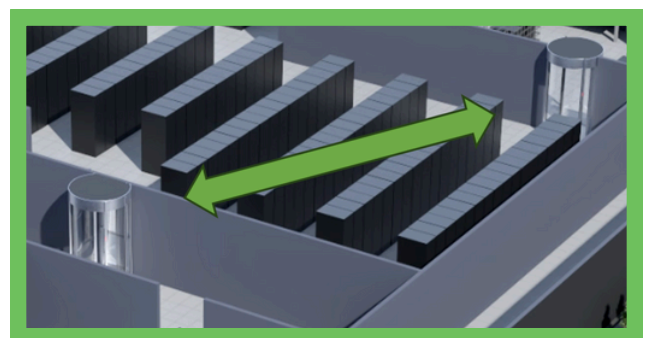
## LEVEL 3. CIRCLELOCK SOLO

The Circlelock Solo security portal offers the highest level of physical protection, serving as the ultimate defence against intrusion into sensitive areas. The Circlelock ensures that only one authorised person can access the portal at a time, eliminating the need for manned supervision or guards.

The cylindrical compartment features two interlocking automatic sliding doors. Upon authorisation, the first door opens, allowing the user to enter the portal. Integrated sensors confirm that the user is alone. If confirmed, a signal is given to open the second sliding door, permitting passage into the secure area. Additionally, a secondary biometric system can confirm identity within the chamber, enhancing security.

### ADVANTAGES OF THE CIRCLELOCK:

- Supports passing in both directions
- Piggybacking detection with StereoVision (one or two ways)
- Multi-factor authentication
- Space-saving cylindrical single room
- Self-controlled – no security personnel required
- Onboard user communication system (integrated visual and audio feedback signalling)
- Seamless integration and feedback with access control systems, biometric devices and building management systems



Instead of employing multiple security guards to secure entrances, companies can rely on unmanned security entrances that operate 24 hours a day, 365 days a year.

# OUR REACH IS GLOBAL.

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We have been in business for over 150 years manufacturing premium aesthetic and security entrance solutions in the Netherlands, United States of America and China. We can confidently say that we cover every corner of the globe with subsidiary companies in major cities across the globe. Furthermore our global export division not only partner with our distributors, but also offer direct sales and service to every territory. This wide net allows us to have a strong global footprint as well as a personal grasp of local markets and their unique entry requirements.

To find your closest Boon Edam expert, please go to:  
[www.boonedam.com/contact](http://www.boonedam.com/contact)



**Boon Edam Australia Pty Limited**

**T** +61 1300 689 905

**E** [info@boonedam.com.au](mailto:info@boonedam.com.au)

**W** [www.boonedam.com.au](http://www.boonedam.com.au)

V1-2505

  
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