

SECURED BY
ABLOY

FOR TRUST IN POWER

Critical Infrastructure Protection for the Electric Power Industry



For trust in electric power infrastructure

Abloy adds trust to all aspects of electric power operations with advanced locking and access management solutions. We improve efficiency, security and cost savings with digital connectivity and innovative electronic technology.

Power generation solutions

From your building's doors to your area's access points, ABLOY's comprehensive product range ensures safety around high voltage equipment. To avoid harm caused by the wrong personnel entering unpermitted areas, PROTEC² CLIQ wireless solutions connect all locks and keys for maximum safety and awareness of your situation. Access rights can be managed remotely, and keys programmed for specific scheduling times. Whenever a key is inserted into a lock, an audit trail is recorded to help track people's movement within your premises.

Transmission and distribution solutions

In an extensive transmission and distribution network, personnel access and safety must be tightly controlled while allowing free movement within authorised areas.

With CLIQ Connect app keys' access rights can be updated on the go via a mobile phone. In the event of an emergency, the right people can access the right places quickly and easily. A lost or stolen key won't be a security risk, as all keys' access rights can be revoked using the web-based CLIQ Web Manager software. With this software, key and access control management can be centralised in one place.

For smooth and secure operations like maintenance, the high security ABLOY Electric Multipoint Cabinet Lock is used for remote-controlled opening of heavy-duty electricity cabinets. In the event of a power outage or other emergency, the door can always be opened with a manual override. By using PROTEC² CLIQ keys, you can get an audit trail of when the cabinet has been opened and with whose key.

Comprehensive product range

Abloy is a proven supplier of security and safety solutions for all assets in the critical infrastructure environment and handles every aspect of security upgrade projects with care and expertise.



PROTEC² CLIQ™

PROTEC² CLIQ is Abloy's comprehensive and flexible key and access management system. It is easy to use and manage, making access control quick and efficient. It features wireless and remote access validation options, including an audit trail for instant situational awareness of exact movements. It is also scalable for future needs and can be integrated with other systems.



CLIQ™ CONNECT

The Connect mobile solution minimises risks around lost keys, the logistics of managing them and access control. You can grant access rights from wherever you are, even to unmanned locations, regardless of distance and time, with the convenience of mobile technology.



ABLOY® ELECTRIC LOCKS

Electric Locks are among the most advanced and sophisticated available. They go beyond industry standards and set the benchmark by making electric locks one of the most intelligent features in your security system. They are designed for a seamless, aesthetic and smooth performance under any conditions. They offer a new standard of trust behind every door.



SUPER WEATHER PROOF PADLOCK

The Super Weather Proof (SWP) Padlock range meets IP68 specifications and can withstand the harshest conditions, from storm-driven salt water to fine desert dust. Security is guaranteed, even when your gates and all the outdoor locking points are regularly exposed to extreme heat or cold. They also come with electromechanical versions that can be linked to our CLIQ system.



ELECTRIC MULTIPOINT CABINET LOCKS

The high-security Multipoint Cabinet Locks with IP55 rating can withstand the harshest conditions, from storm-driven salt water to fine desert dust. Multipoint Cabinet Locks are used especially in situations where the advantages of remote-controlled opening are needed – for example, in the event of an emergency. In a power outage, the door can be opened with a mechanical or electromechanical override.

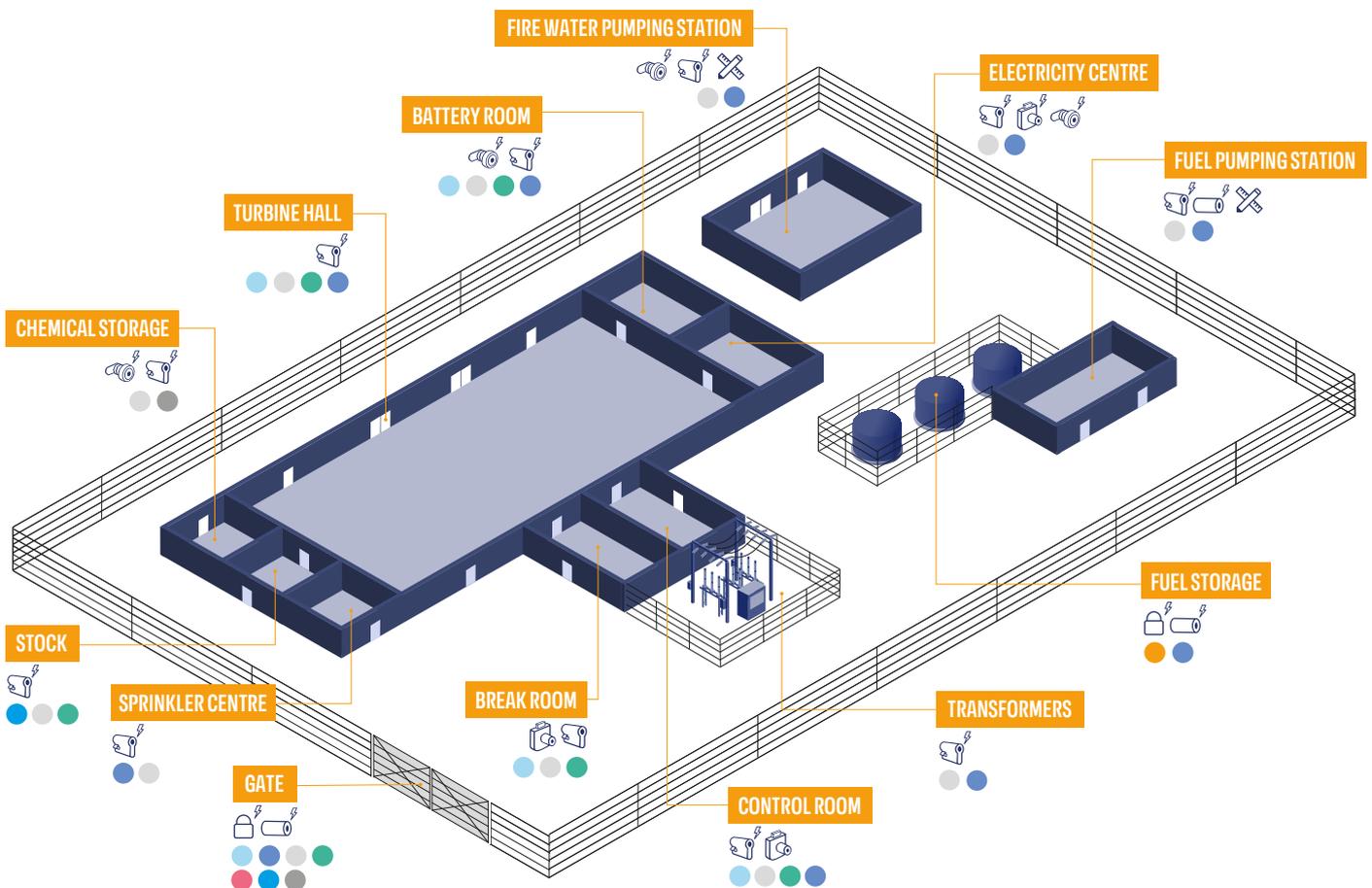
Case example: power station

Access Groups

- Management
- Operational personnel
- Technical maintenance
- Data system maintenance
- Subcontractors
- Outdoor maintenance
- Cleaning
- Chemical delivery
- Delivery
- Authority

Products

- | | |
|--|---|
|  Key Deposit Lock
CLIQ |  Cylinder
mechanical |
|  Padlock
CLIQ |  Cam Lock
CLIQ |
|  Cabinet Lock
CLIQ |  Cabinet Lock
mechanical |
|  Cylinder
CLIQ |  Custom made
product |



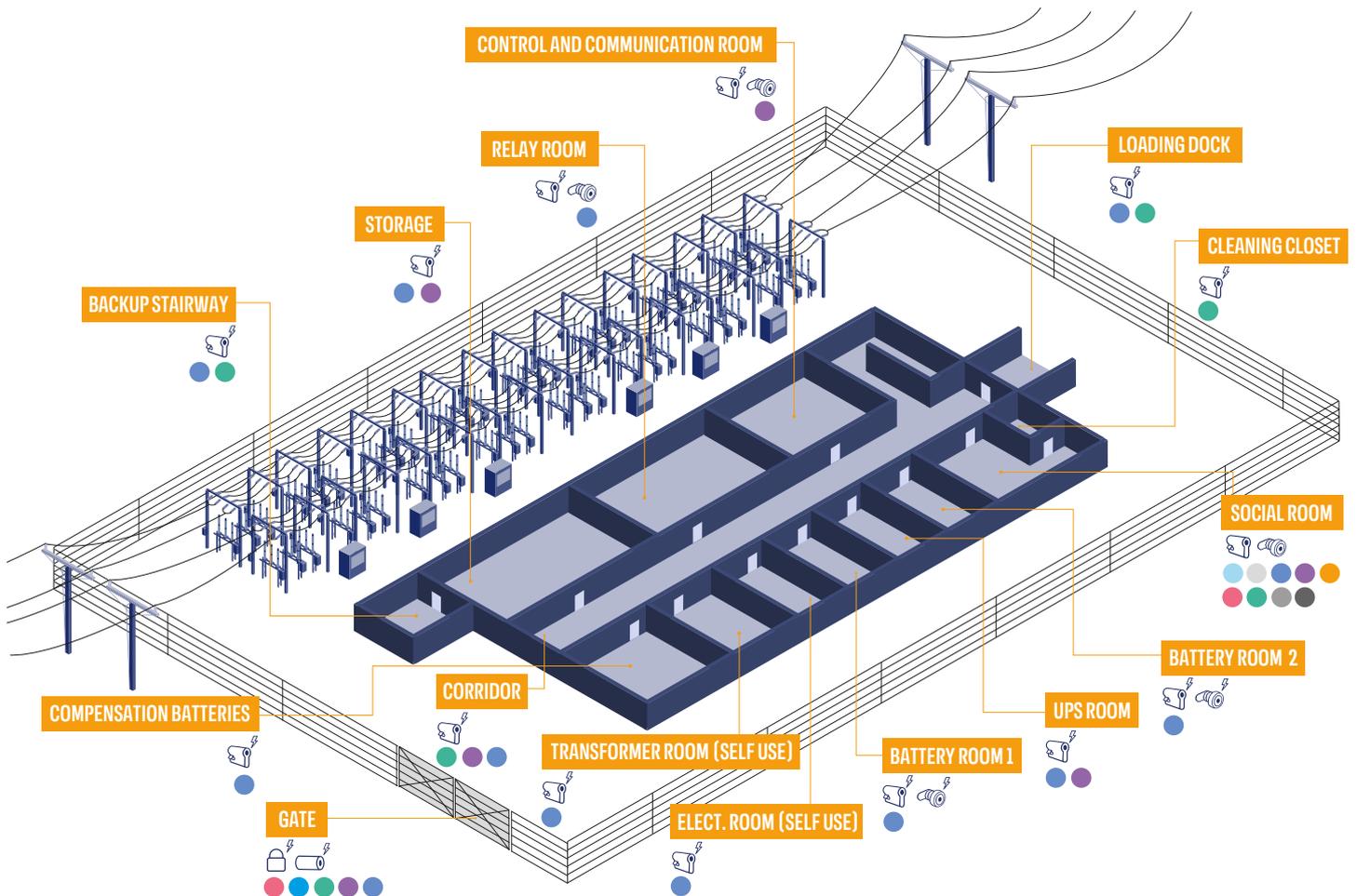
Case example: electric substation

Access Groups

- Management
- Operational personnel
- Technical maintenance
- Data system maintenance
- Subcontractors
- Outdoor maintenance
- Cleaning
- Chemical delivery
- Delivery
- Authority

Products

- | | | | |
|---|--------------------------|--|------------------------|
|  | Key Deposit Lock
CLIQ |  | Padlock
CLIQ |
|  | Cylinder
CLIQ |  | Cylinder
mechanical |
|  | Cam Lock
CLIQ |  | Cam Lock
mechanical |



Case studies



CLIQ™ helps to keep power flowing to North West England

Electricity North West Limited is the distribution network operator for North West England. The company serves around 5 million people via 57,000 km of overhead lines and underground cables, and more than 34,000 transformers.

Upgrading security at Electricity North West Limited was challenging. The company's overhead lines, underground cables and transformers are in urban and remote rural locations across North West England. The company was looking for a solution to control access at its dispersed sites.

In advance of installation, ASSA ABLOY provided a detailed survey and introduced their trusted reseller and partner. To date, almost 15,000 locking cylinders and padlocks have been fitted at Electricity North West Limited's multiple sites. The CLIQ system installed offers high flexibility, as mechanical cylinders and padlocks have been installed in conjunction with electromechanical CLIQ cylinders across all the sites.

Electricity North West Limited is also using almost 2,000 CLIQ user keys and over 40 CLIQ programming devices to remotely update keys' access rights.

"Each CLIQ key can be programmed and updated individually to allow access to specific areas at specific times, accommodating constantly changing access requirements and ensuring flexibility," says **Rob Bennett**, Senior Market Development Manager at ABLOY UK.

Electricity North West Limited's old brass padlocks had occasionally been targeted by thieves for their scrap value. The new padlocks all meet required security standards, are tested to BS EN12320 and are certified to LPS 1654.

The CLIQ software supports the utility company's complex workflow by enabling audit trails to be generated for individual locks, keys or system users. If a key is lost, this no longer creates a major security risk, because all keys can be activated, and access changed or removed, using the CLIQ Web Manager software. This makes for a truly dynamic and secure system.

Keeping the wheels of society running

Helen Ltd produces and sells electric energy for approximately 400,000 customers in Finland. The company's district heating covers more than 90 % of the heating requirements in Helsinki. Helen produces and sells energy-efficient district cooling in the Helsinki area.

The Helen Group, recognised as the world's best provider of urban energy, has several power plants, as well as numerous distribution substations and electric stations in Finland. They help provide heating to hundreds of thousands of Finnish homes and companies and keep the wheels of society turning. For energy production to be constant without unwanted interruptions, the production plants must be kept secure.

Previously, Helen's more than 1,100 employees had a total of over 30,000 keys. Access control was difficult, and the whereabouts of lost keys could not always be determined. When the company's locking system was upgraded to the PROTEC² CLIQ system, the number of keys dropped dramatically. Currently, Helen's personnel only have a total of 1,300 keys. To optimise the level of security, each key provides access to the facility only for the duration of the workday – in other words, for 10 hours at a time.

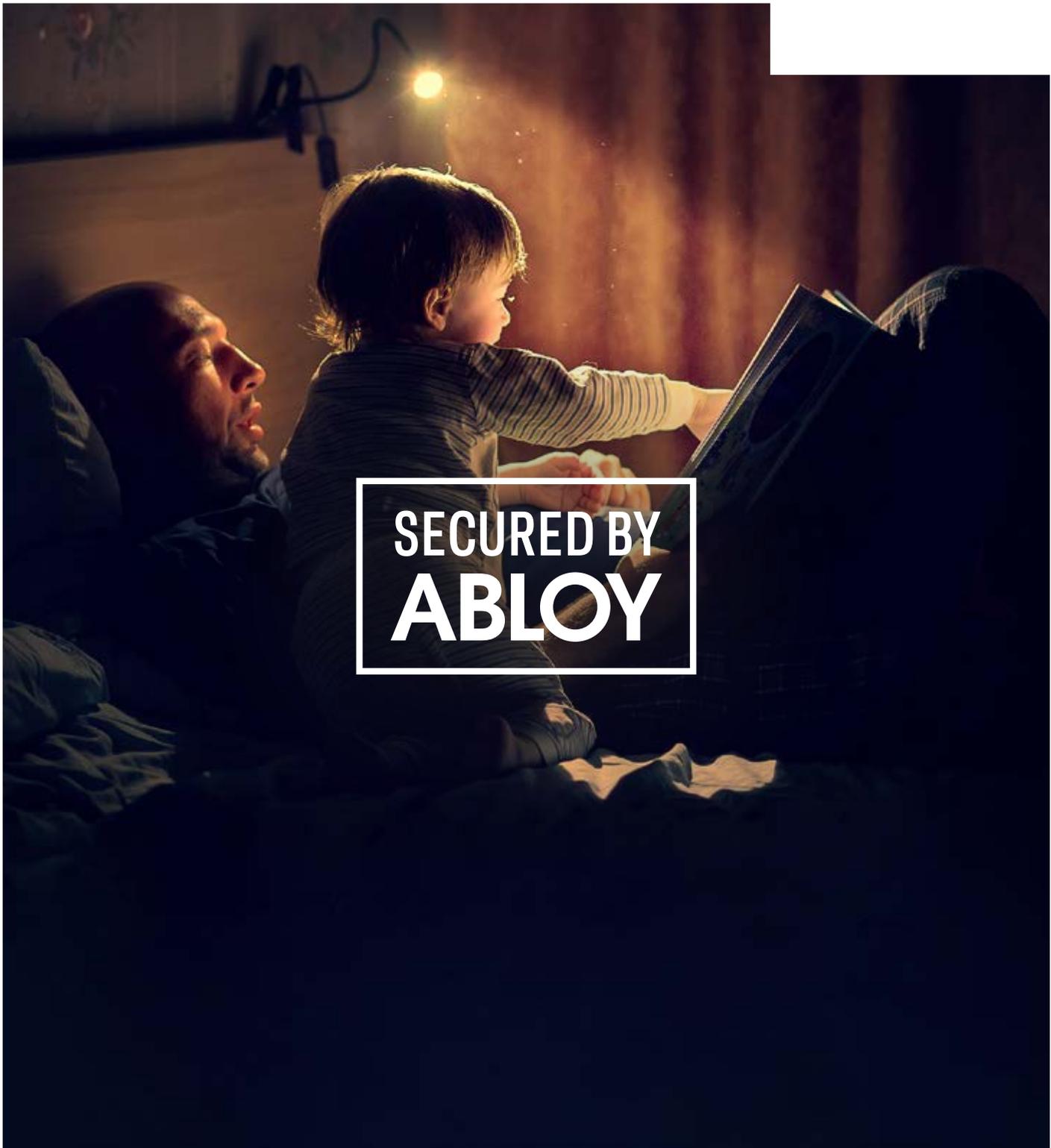
"In four years, only nine keys have gone missing. Previously, we would have had to rekey entire locking systems; now we just check one box."

According to Helen Group's Chief Security Officer **Mats Fagerström**, the close cooperation has considerably improved the level of security. "It's always nice to know what's going on in the facilities. When we replaced the system, Abloy showed their ability to listen to the customer and to develop the system in accordance with our user experience and needs. Interaction with Abloy is still extremely important, since development work is always being carried out," Fagerström says.

The new system was so well received at Helen that it was quickly expanded to the energy company's other facilities.

The next move is to replace the locking system of Helen Electricity's distribution substations and electric stations and take advantage of the features in one ecosystem. "The locking system is now managed based on information, not just feel. In future, our aim is to further automate the system. This will be fully possible with Abloy's help."





**SECURED BY
ABLOY**

ABLOY secures people, property, and business operations on land, at sea, and in the air – in all circumstances.

ASSA ABLOY is the global leader in door opening solutions, dedicated to satisfying end-user needs for security, safety and convenience.

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