

## Case study

# DONG Energy knows Siemens has the power to help



Siemens has built a strong working relationship with DONG Energy, Denmark's largest power generator and one of the leading energy companies in Northern Europe. Having successfully delivered a number of diverse projects for the company, the most recent has seen Siemens work with DONG to establish one common access control system across all of the company's 85 sites throughout Denmark.

### Project overview

The publicly owned company today employs around 6,000 personnel mostly working at its Danish sites. DONG believes that maintaining a good working environment and a high level of safety for employees and suppliers is a prerequisite for operating a healthy and efficient business. This corporate responsibility being an integral part of its values and vision, the company requires all staff to undergo a safety and security certification course for each of its sites at which they work or visit. This attitude was the major driving force behind a move to improve the access control systems deployed at the 85 sites in its homeland, though the initiative also

addressed recommendations made by the Danish authorities that regularly monitor security and safety at Denmark's critical infrastructure facilities.

### The requirements

DONG Energy determined to establish a common access control system across all of its sites in Denmark to increase the security level and to ensure easy access for all employees to centralised and decentralised power plants, city stations and office buildings alike. DONG placed the order with Siemens for the new, multi-site access control system specified by its own Facility Management team.

### Solution

The contract was duly completed on schedule and all DONG Energy employees are now able to use the same card to access all sites anywhere in the country. The project included not only implementation of new systems and the replacement of old, third-party systems, but also the facility to interface with DONG's System Application & Products (SAP) system for exporting human resources data.



Siemens developed two applications specifically for DONG Energy, to provide the system with 'Present/Not Present' and 'Muster Station' functionality. The 'Present/Not Present' feature was developed to save time during day-to-day operations by enabling key personnel to be located quickly and efficiently whenever intervention or specific actions are required. The 'Muster Station' capability is part of the evacuation application also specially developed by Siemens. Dedicated readers are installed on pillars at key assembly points – or muster stations – where employees and visitors present their cards to confirm they have safely evacuated in case of emergency. Emergency response teams (fire brigade, police etc.) can then use the system to print a list of all members of staff that are still on site. This is, of course, vital in optimising the rescue/intervention process.

The new Siemens access control system provides freedom of movement for thousands of employees in a secure environment at numerous locations scattered throughout Denmark. It is flexible, scalable and easy to use and in its entirety comprises: 6,000 contactless smart cards and proximity cards, 79 door controllers, 617 readers or proximity coupling devices, and four printers. The system is also installed in smaller substations and office buildings throughout Denmark and has the capability for future expansion into other international locations.

The advanced central controllers of the access control system play a crucial role, as they are the interface between the integrated software and the field-level devices. Two types of controllers are installed, which work in tandem on the same site. Communication between all the controllers in the system takes place peer-to-peer, independent of the server. So if connection to the server should be interrupted, operation of the system is unaffected.

Following the successful implementation of the access control system, Siemens was also awarded the service contract for three years.

### Highlights

- One common access control system across all of the company's 85 sites throughout Denmark
- All 6,000 DONG Energy employees are now able to use the same card to access all sites
- Implementation of new systems and replacement of old, third-party systems
- Facility to interface with DONG's SAP system for exporting human resources data
- 'Present/Not Present' and 'Muster Station' functionalities developed specifically for DONG Energy

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The information in this document contains general descriptions of technical options available, which do not always have to be present in individual cases. The required features should therefore be specified in each individual case at the time of closing the contract.