



## CASE STUDY | INDUSTRY

# DTEK GROUP

Security and communication solution for energy utilities

### CUSTOMER INFORMATION

**DTEK** is the leader in Ukraine's energy sector. The company produces coal and natural gas, generates electricity at solar, wind, and thermal power plants, distributes and supplies electricity to households, sells energy resources in the Ukrainian and international wholesale markets, offers customers products and services for sustainable use of energy resources, and develops a network of fast chargers. (<https://dtek.com/>)

Our partner to this project is the Ukrainian company Data Express Company LLC ([www.dex-ua.com](http://www.dex-ua.com)), a research and production enterprise as well as a leading system integrator on the Ukrainian market.



Head of Pokrovskaya solar power plant

The solution developed by Commend Österreich GmbH together with Data Express Company LLC turned out to be a single multifunctional solution, with an easy-to-use interface, flexible in integration and scalability. This solution made it easier for operators to work and increased the efficiency of security personnel in general.





## THE CHALLENGE

Pokrovskaya Solar Power Plant is a high-tech enterprise for the production of „green“ electricity with a vast territory, which is located in an area with a high crime rate, at a great distance from the nearest city. To optimize the tasks of the security personnel and ensure maximum autonomy of the Power Plant, the system had to consist of the following subsystems:

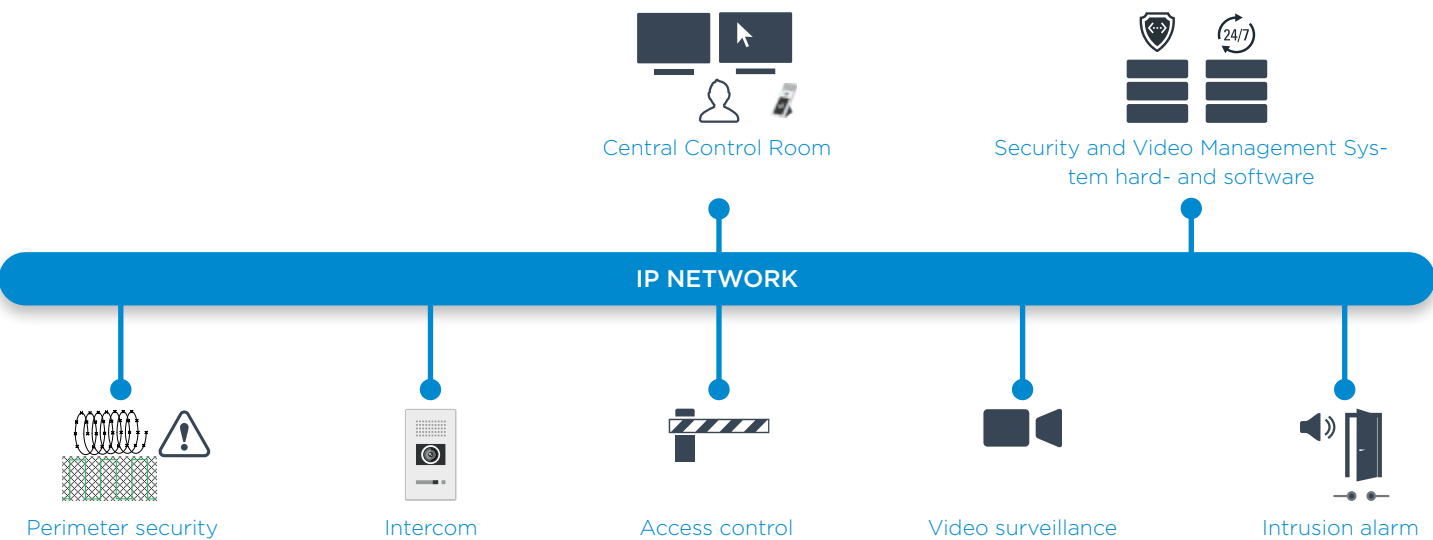
- perimeter security system, resistant to electromagnetic interference and consuming a small amount of electricity;
- video surveillance system, with the function of automatic response to the threat of penetration into the territory of the Power Plant;
- access control system for doors and gates, to protect against unauthorized entry into the territory and buildings of the Power Plant;

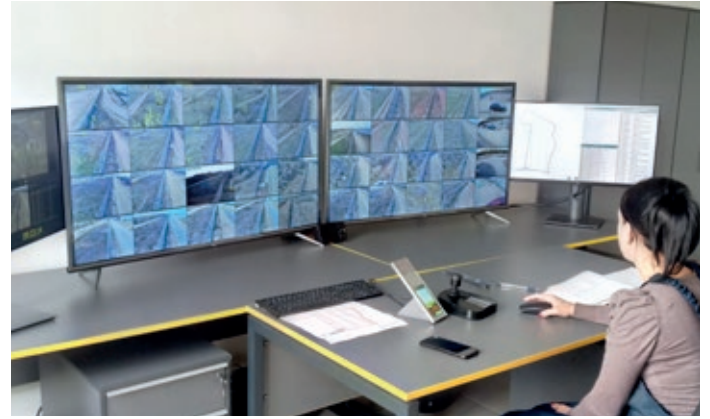
- security alarm system inside buildings, to provide autonomous protection of buildings and premises of the Power Plant;
- intercom communication system, to provide video and voice communication between system operators and entrances to the territory and to some buildings

An obligatory requirement of the customer was the interaction of subsystems with each other at the level of software integration. This provided convenience for the system user and allowed them to be maximally informed without increasing the load on the computing power of the operator’s workstations.

## PROJECT DETAILS

Pokrovskaya Solar Power Plant, with an established capacity of 240 MW, is Ukraine’s largest solar power plant and among the top three in Europe. It is located in Nikopol district (Dnipropetrovsk region), deployed on the territory of 437 hectares of a spent quarry. This land of little use for agriculture will benefit the country in the form of clean energy. The project was commissioned in October 2019 with the total cost of approximately € 230 million.





## SOLUTION & BENEFITS

For this project, Commend Österreich GmbH together with Data Express Company LLC designed, installed, and commissioned a comprehensive security and communication solution mainly based on reliable components and software of Commend and TKH Security.

**PERIMETER** security is an intelligent fibreoptic cable guard system, which operates on Distributed Vibration Sensing technology. This system allows to quickly respond to threats such as:

- touching and hitting the fence
- climbing over the fence
- violation of fence continuity

**VIDEO** surveillance system is based on intelligent Video Management System VDG, fixed and PTZ video cameras SIQURA allowing following functionalities:

- automatically rotate and zoom the image to the alarm location
- remotely switch on security lighting
- organize automatic patrolling of the perimeter using video cameras
- video and audio recording

**INTRUSION ALARM** system inside buildings allows receiving an alarm signal about unauthorized access to the premises and in case of burglary.

**ACCESS CONTROL** management system is represented by Keyprocessor equipment. The use of this system allows operators:

- remotely control doors and gates
- promptly restrict or allow access to personnel and visitors
- archiving of events for prompt investigation of emergency situations
- analyze the status of access points

**INTERCOM** system includes Commend vandal resistant outdoor video intercom terminals and modern desktop master stations with touch screens with following functionalities:

- receive and make high-quality audio and video calls to the points of passage of staff and visitors
- receive internal operational audio and video communication between system users
- receive and archive video information thanks to integration with video surveillance and access control systems.

**Your local Commend contact person will be happy to answer any further questions regarding individual solutions.**

**OFFICE@COMMEND.AT**





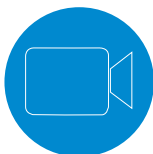


## PROJECTS

**Austria** - Video Management for hospitals // Secure communication in various prisons // **Croatia** - communication solution for hospitals // **Netherlands** - CCTV for all Highways and waterways all over the country // **Germany** - Video Management System for Liebherr Logistic // **Romania** - Public address, Video Management system and emergency communication for Metro Bucharest // **Singapur** - CCTV System for Metro Singapur // **USA and Canada** - integrated parking solution for "Parkway Corporation"



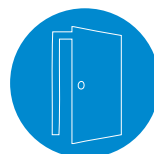
Intercom



Cameras



Video Management



Access



Audio

## SECURE COMMUNICATION SYSTEMS FROM COMMEND

Can you imagine a system that millions of people rely on every day, where every word has to count? This is the world of Commend! Secure, reliable communication is our passion.

As global market leader with over 40 years' experience in developing voice technology, we have integrated not only video and interfaces to third-party equipment that complies with international norms and standards, we created new opportunities

to integrate overall solutions. Commend can combine individual systems for example video, intercom- or access control to an overall solution and enables within a situation picture an accurate capture of reality in real time. Therefore, Commend ensures and protects people, buildings and values.

Commend is the natural choice for hands-free voice communication systems all over the world.



Long-term relationship with both customers and suppliers



Project consulting for customized solutions



Highest quality ensures long product life cycle

### QUALITY-TESTED. RELIABLE. WELL-DESIGNED.

COMMEND products are developed and manufactured by Commend International in Salzburg, Austria. The development and manufacturing processes are certified as per EN ISO 9001:2015.

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