



**zenon**  
by COPA-DATA

# Substation Automation with zenon

*zenon provides SCADA solutions that can serve as a control system in the substation, a process visualization platform in the control room, or a gateway to higher-level control systems.*



# Transition to Digital Substations with zenon

*Use zenon Energy Edition for effective and secure operation of substations – locally or remotely.  
Benefit from quick project configuration, simple operation, and maximum security.*

zenon Energy Edition offers a full range of control functionalities including:

- ▶ An on-site control system (HMI)
- ▶ Process visualization in the control room (SCADA)
- ▶ Gateway (interface to higher-level control systems).

## RELIABLE AND SECURE OPERATION

To ensure uninterrupted energy supply, zenon guarantees seamless redundancy along with cutting-edge technology including the Parallel Redundancy Protocol (PRP).

Interlockings can be engineered into the project to protect substation equipment to prevent errors in operation. Repetitive switching tasks can be executed automatically through tools like Command Sequencer that increases operating security.

## CONTROL FROM ANYWHERE

Regardless of where operations are taking place, zenon's industry-leading visualization provides the most informed view of all connected sites.

Whether working locally in the substation or centrally from a control center, operators have full control across sites using zenon's customizable user interface.



## EFFICIENT ENGINEERING

Engineer the visualization of your substation quickly, without having to write a single line of code. zenon is structured in a completely object-orientated manner. You can create a robust library of common symbols and reuse them across projects. Integrate components, processes, and functions easily with the click of a button. You can also configure and maintain extensive projects quickly and efficiently. Complex functions such as interlockings or redundancies are integrated into zenon as a standard and are configured out of the box. As a result, project development time can be significantly reduced.

## IEC 61850 AND MORE

zenon supports all common communication protocols in the energy industry. Configure your system with pre-defined functions and connect to various types of hardware with drivers developed in-house. This enables connections to a wide range of protocols, such as:

- ▶ IEC 61850 Client/Server and GOOSE
- ▶ IEC 61850 Edition 2
- ▶ IEC 61400-25
- ▶ IEC 60870-5 (101/103/104)
- ▶ DNP3
- ▶ IEC 62056-21
- ▶ OPC UA
- ▶ Modbus
- ▶ IEEE C37.118 (Synchrophasor)
- ▶ IEC 61850-90-5

## EXPLORE ADDITIONAL FEATURES

zenon offers additional functionalities that simplify the operation of substations, such as customizable visualizations, process recording, dynamic reporting, legally-compliant archiving, and risk-free process simulations.





## OUR SOLUTIONS FOR THE ENERGY INDUSTRY:



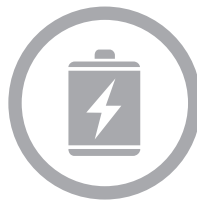
HYDRO POWER



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RENEWABLES



ENERGY STORAGE



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AUTOMATION

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