

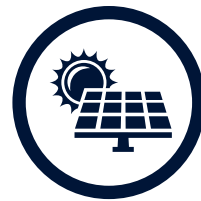
OUR SOLUTIONS FOR THE
ENERGY INDUSTRY:



HYDRO POWER



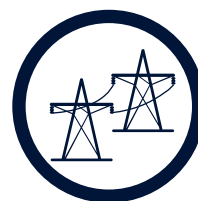
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ENERGY STORAGE



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COPA-DATA

Publication number: CD-Critical_Switchroom_2024

Critical Switchrooms -

Maximise uptime with
minimal engineering time

Critical Switchrooms - why zenon?

TRUSTED BY UK DNO’S AND TSO’S

Trusted by Utility companies in the UK and around the world zenon is used to visualise, control and automate critical substations on the transmission and distribution networks in the UK and around the world. Bring that security to your critical switchroom.

SAVE WITH STANDARDISATION

Standardisation saves time, money and is safer. While the switchgear, protection and metering can change with customer preference, the user interface can be standardised. This saves engineering time, training time and allows your customers to immediately recognise how to operate your HMI. COPA-DATA’s zenon has over 300 native drivers including all protocols found in energy and building automation; Modbus, IEC 61850, IEC 60870, DNP3 and BACnet plus all common PLC’s, BMS and EMS systems.

BUILT IN IEC 61131 SOFT LOGIC

The IEC 61131-3 programming interface zenon Logic has been an integral component of the zenon Editor since 2001 and provides automation engineers with considerable benefits. Providing HMI/SCADA and PLC programming in one system. zenon Logic and zenon access a shared

database, meaning shared variables and data types can be created, amended or deleted by either system. Changes can therefore immediately visible in both systems and shared variables are always up to date.

AUTO-CHANGEOVERS BASED ON REAL TIME CONDITIONS

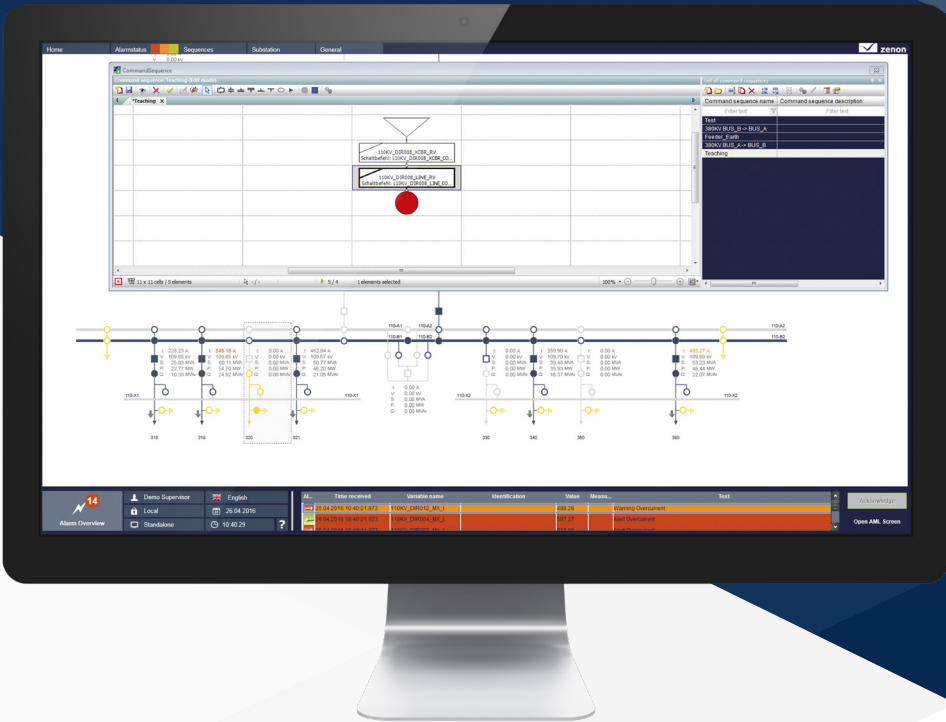
Changeovers and load shedding happen automatically, in real time, when you require them, saving energy and keeping critical systems running. You can also integrate renewables and battery storage into your network, intelligently controlling these assets to maximize ROI and power availability.

IEC61850 CLIENT AND SERVER

zenon is the platform for IEC 61850. It has Ed2 client drivers and is an IEC 61850 server. Use zenon logic IEC 61850 server to control circuit breakers and switch gear line ups to “self heal” and shift breaker alignment to bring in power regardless of source.

REDUCE ENGINEERING TIME WITH OUR SMART OBJECTS

Smart Objects take object-oriented SCADA to the next level. Common symbols like circuit breakers, switches,



relays and meters can be built with logic and visualization components. Variable pre-configuration and mapping, multiple screens, trends and reporting can all be built in the object and used multiple times throughout your project.

NO DOWNTIME, NO DATA LOSS

Downtimes caused by server failures are costly as they lead to production downtimes, data losses, or gaps in data recording. This can lead to major problems, especially in strictly regulated industries with stringent documentation requirements. Redundancy in zenon ensures that, should a server crash, no downtimes are incurred, and data continues to be recorded without interruption, even when switching to standby servers. With seamless redundancy, the standby server constantly records data in parallel, so that no data is lost.

SWITCHING SAFELY

Switching is one of the most dangerous tasks engineers face at all voltages, even when you know you’ve done all the checks and everything is OK You can still jump a little with that circuit breaker clunks closed! Switch from the safety of the operator PC, in a different room, at all voltages now do we hear more and more about arc flash protection keep it simple and safe and switch from the HMI. Human error is one of the biggest causes of downtime in critical environments, zenon has a csolution for this, using our operator guidance module all safety checks have to be confirmed one step at a time in the HMI before it will let you proceed to the next. This ensures that processes are completed in the same way everytime. For complicated switching sequences, our command sequencer lets you teach the HMI the switching sequences so it runs through them in the same way every time.

