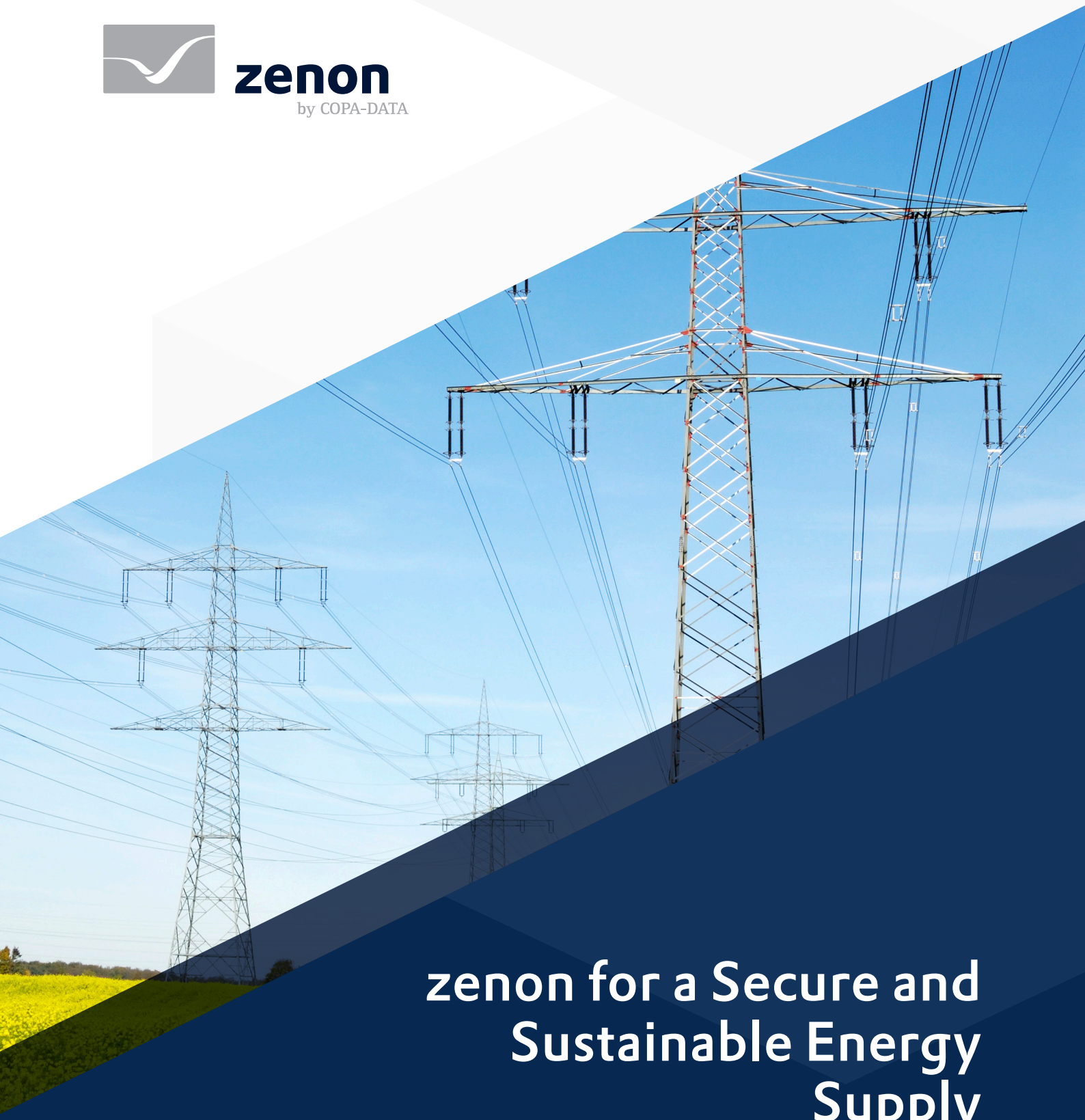
zenon
by COPA-DATA



zenon for a Secure and Sustainable Energy Supply

zenon is a consistent, robust, and highly scalable software platform for all automation scenarios in energy supply. Whether it's power generation, distribution, or storage, zenon covers a wide range of applications.

Intelligent and Secure System Operation

The zenon Software Platform ensures a smooth and efficient energy supply for cities, municipalities, or regions. Whether it's smart grids, municipal enterprises, hydroelectric power stations, wind farms, photovoltaic systems, or substations – your power supply is under control using a single solution and you can benefit from rapid integration with existing facilities, intuitive operation, and maximum security.

zenon enables the safe operation of manned and unmanned energy systems. Interlocking and the Command Sequencer minimize the risk of operating errors. A sophisticated user management system precisely defines roles and authorizations, ensuring optimum security. Operators have full control over their settings using zenon's customizable user interface. They will then find their preferences exactly as they left them next time they log in.

Unmanned control rooms can quickly inform the on-call staff of any problems via SMS, e-mail, or text-to-speech call using Message Control. You don't need permanent control room personnel and therefore benefit from a decisive cost advantage.

FULL VISIBILITY

With zenon, you have a complete overview of the facility and a precise representation of the details at the same time. The zenon Worldview allows you to zoom in and out of a geographic image of the facilities. This zoom-in function automatically scales to display pertinent image details using a "decluttering" technique – a method for high readability.

zenon also features an option for combining data from geographic information systems (GIS) in your zenon visualization. This enables users to visualize power grids in a geographical map format. Current statuses, such as alarms, are shown directly on the map. Users can localize states and events more easily and accurately, and handle alarms more efficiently.

AUTOMATICALLY RESPONDS TO ALARMS

If saved values such as line frequency are exceeded or undershot, zenon generates alarms that can trigger automated responses and processes. This allows standby personnel to quickly identify the location of errors and respond rapidly.

CHRONOLOGICAL LOGGING AND COMPREHENSIVE REPORTING

zenon logs events and measured values to create a complete archive of this data. This gives you a reliable basis for your decision making. zenon provides a comprehensive set of templates for reporting. In a minimal amount of time, you can create informative reports for facilities such as wind farms. These can be shared automatically with colleagues in common formats (either in defined cycles or based on specific events).

RETROSPECTIVE ANALYSIS OF NETWORK ERRORS

The zenon Process Recorder chronologically displays the recorded events, measured values, and trends directly in the process image. As with any media player, a timeline is used for navigation. This allows you to quickly review past system states and identify the affected areas in the event of an error. In addition, you can easily determine the exact time that a problem occurs and enter it into the stipulated fault register.

ENERGY STORAGE SYSTEMS UNDER CONTROL

Energy storage systems are generally new applications. Often, operators are learning how to optimize their use. With the zenon reporting system and its trend analyses, you can generate information to help accelerate the learning process at the push of a button.

SECURE, OPEN COMMUNICATION

The zenon Software Platform features a range of drivers for energy (IEC 60870, IEC 61850, etc.) and process automation (Siemens S7, Allen-Bradley, OPC UA, Modbus, etc.). The variety of drivers allows you to connect all the subsections of a power plant directly using one tool – without the need for an external protocol converter.

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