

PROCESS VISUALIZATION AND ENERGY MANAGEMENT

MANUFACTURER-INDEPENDENT,
GROWS WITH YOUR BUSINESS,
COST-EFFICIENT





Individualized Standard Solution

MANY SOLUTIONS – A SINGLE PLATFORM!

METRAVIEW is a universally implementable software platform for acquisition, storage, presentation, visualization and analysis of energy and process data – from SCADA right on up to monitoring systems and energy management. It integrates a multitude of essential functions into a modular, scalable platform for a clear-cut visualization of energy consumption and process data.

Integration of Existing
Hardware Components –
Manufacturer-Independent

Individually Customizable
Dashboards

Adaptable System that
Grows with Your Business

Powerful Backup and Restore
Procedures



HIGHLIGHTS

- ✓ 100% web-based
- ✓ Customizable report management
- ✓ Warning and error message management
- ✓ Customizable SCADA interface
- ✓ Manufacturer-independent and communicative
- ✓ Customizable dashboards
- ✓ Multi-client capable user management

Highlights offered by the platform include easy evaluation of energy and process data via user-defined dashboards, high-quality process images and powerful trend analysis. Amongst other things, the intelligent alarm platform ensures maximum system availability on the basis of limit values by means of targeted alarming in the event of faults or greatly increased energy consumption.

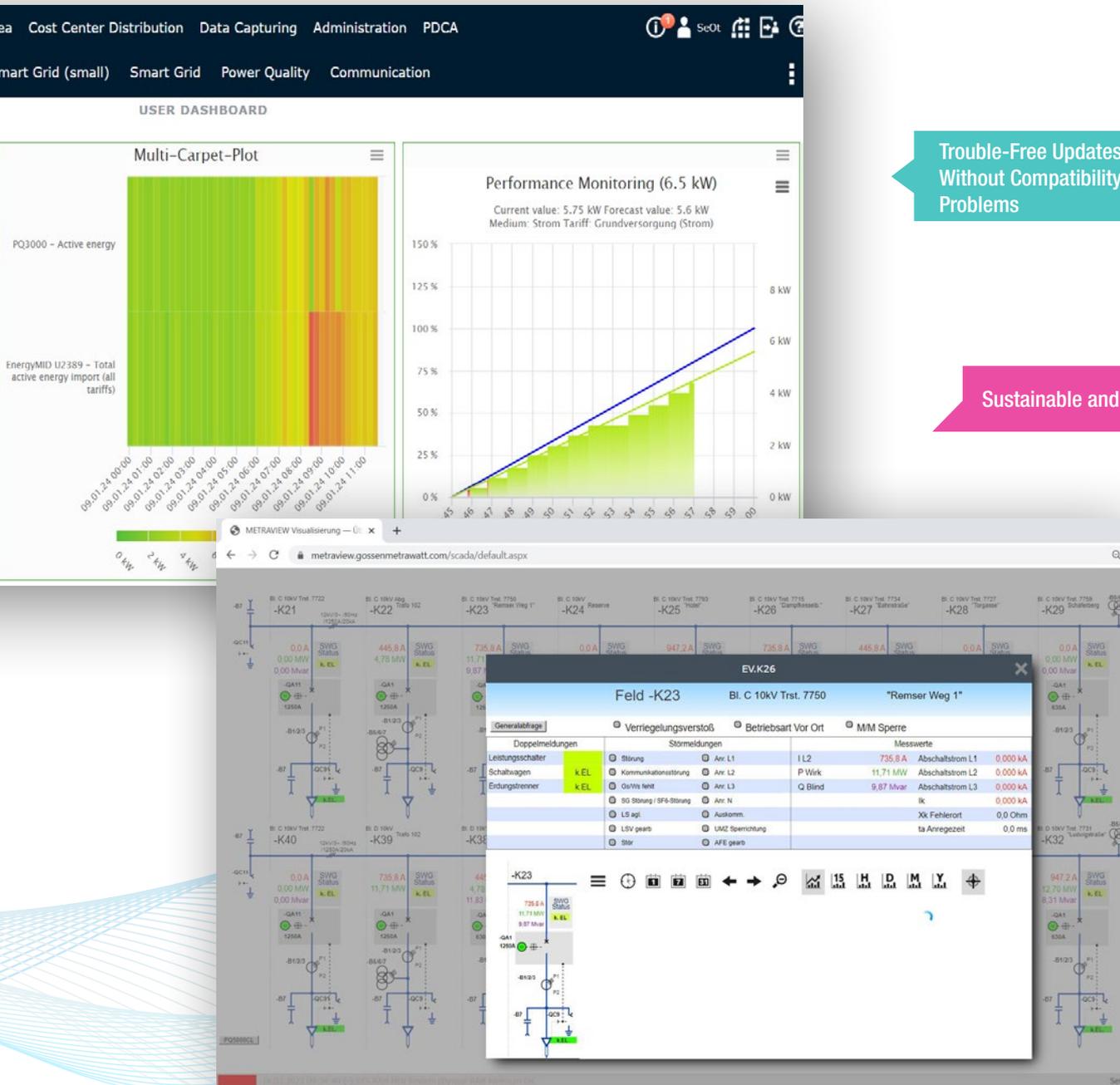
Open standard interfaces based on OPC and IT security concepts round out METRAVIEW as a platform for transparency, and for optimizing the use of resources and reducing costs. METRAVIEW facilitates intelligent energy management in accordance with ISO 50001 and is subsidized by the BAFA (German Federal Office for Economic Affairs and Export Control).

Flexible and Versatile

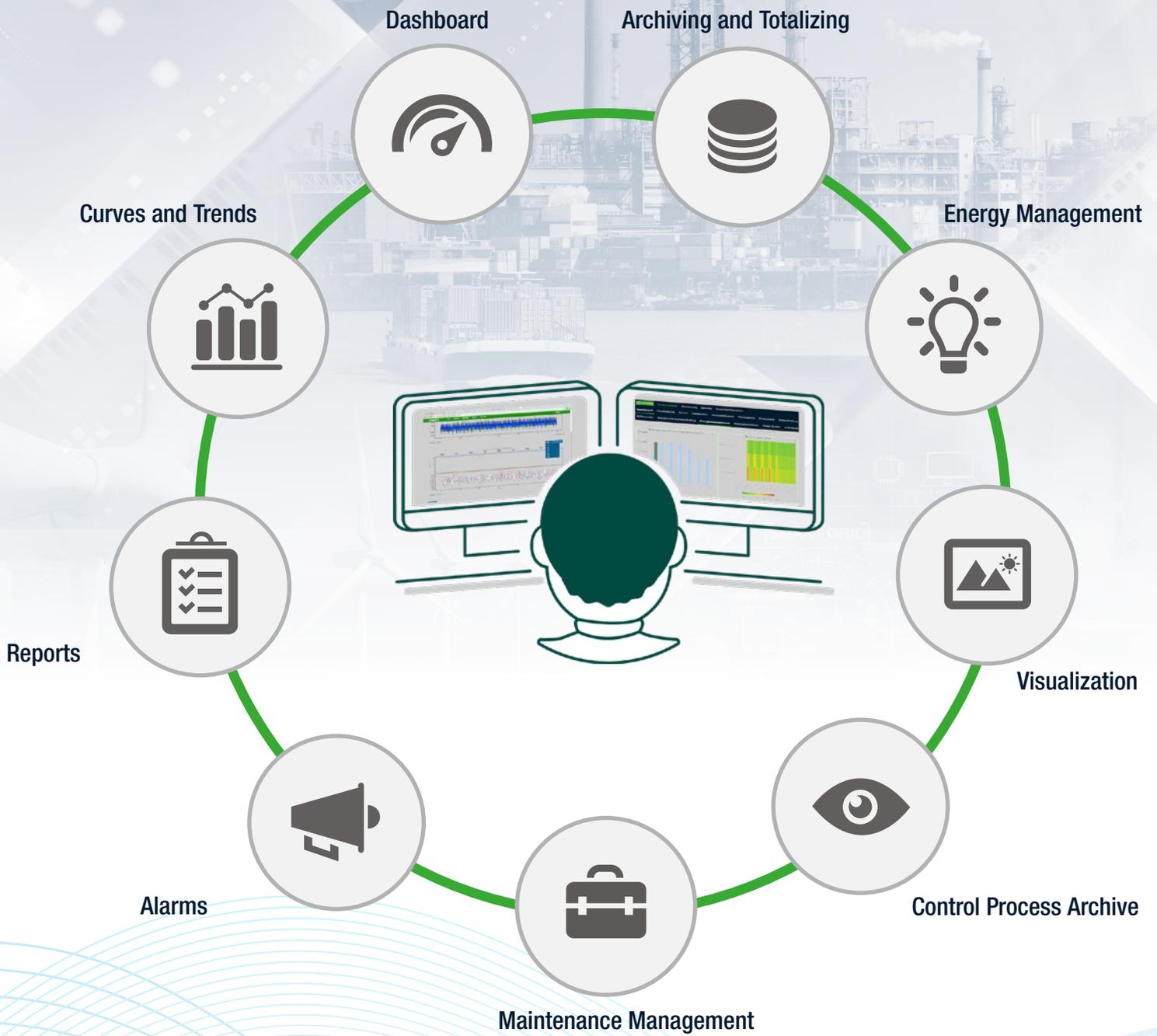
Modular, Scalable, Efficient

Trouble-Free Updates Without Compatibility Problems

Sustainable and Future-Proof



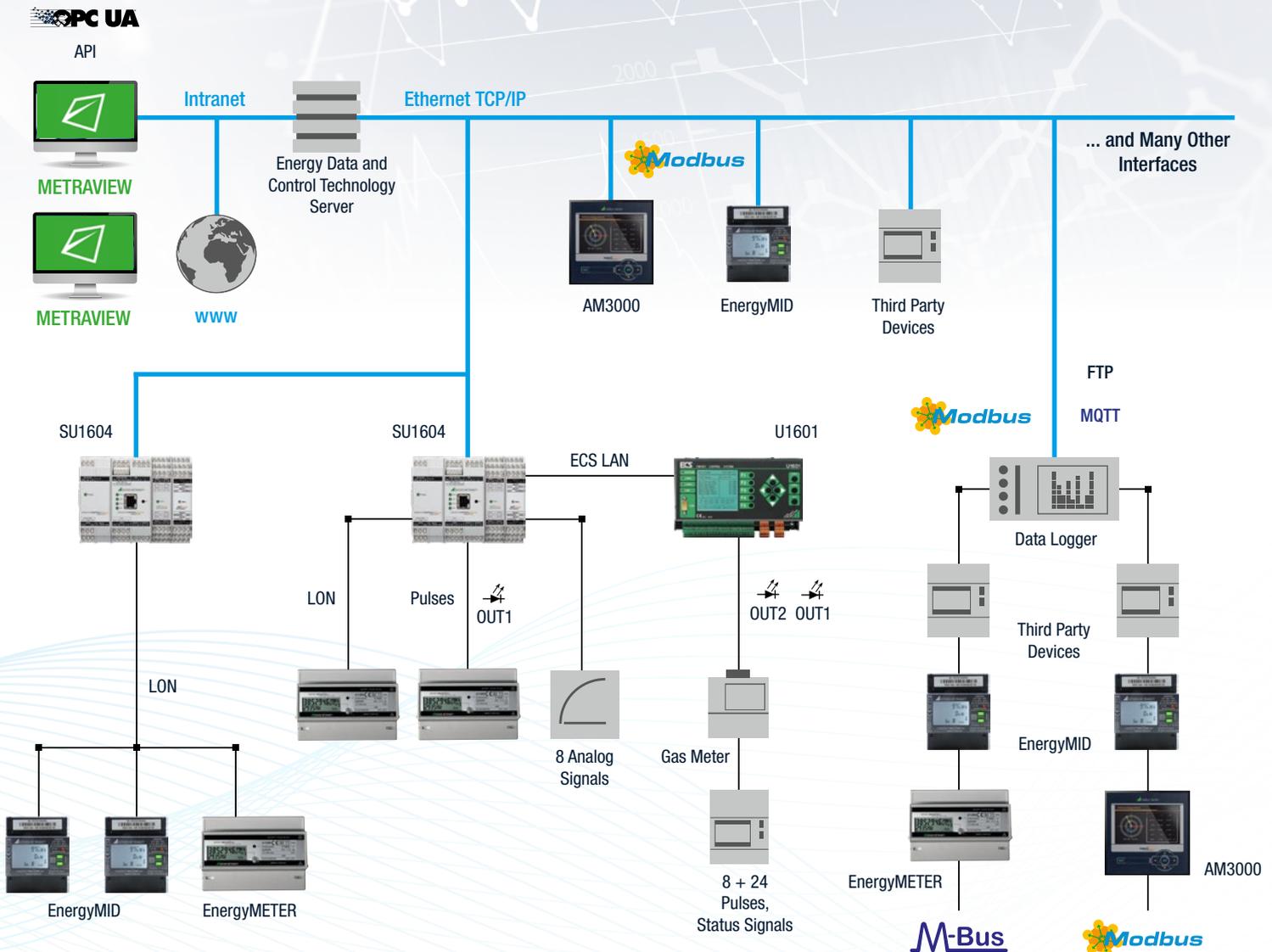
YOUR ENERGY DATA PLATFORM



INTELLIGENTLY MATCHED SOFTWARE AND HARDWARE COMPONENTS

METRAVIEW is ideally matched to the components included in the GOSSEN METRAWATT Energy Control System (ECS) and, in combination with our summators, offers a unique system with regard to configuration, system monitoring and data quality (ECL OPC and ECL Wizard). Open, standard interfaces based on OPC technology facilitate manufacturer-independent communication and increase METRAVIEW's flexibility and range of applications. Standard and application-specific protocols such as Modbus, IEC 60870-5-104 or PROFINET can thus be implemented very simply, making it possible to connect existing third-party device hardware from a diverse variety of manufacturers. Characteristic features include real-time data acquisition, high levels of error-proofing and sustained compatibility.

- Consistent integration of our summators (U160x) for 100% data quality by means of automated reading and parameters configuration
- Open, standard interfaces and protocols (OPC UA, Modbus, ECL etc.)
- Interconnection of existing hardware, including third-party devices
- Complete OPC UA client and server solution for integration into Industry 4.0 and the IIoT
- Transfer of data to superordinate systems (ERP, control systems etc.)
- Import/export of text structures
- Manual value entry



MODULE FOR SOFTWARE-SUPPORTED ENERGY MANAGEMENT

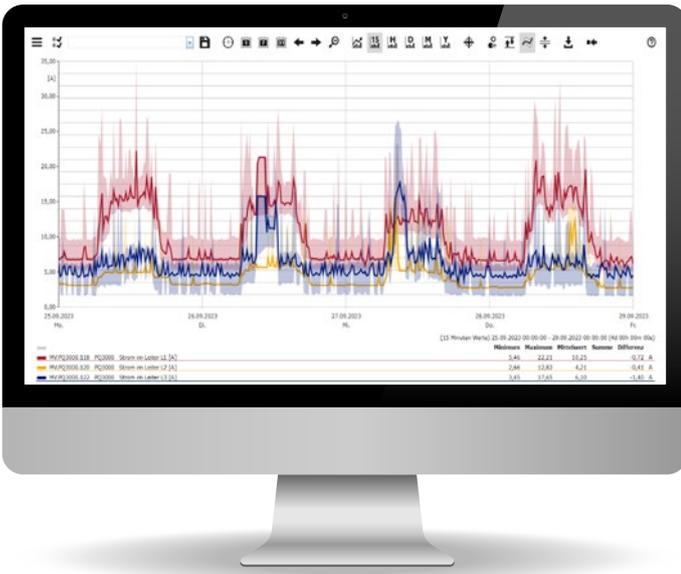
METRAVIEW Energy supports companies with comprehensive, consistent energy management as an ecological and economic factor of increasing importance. Efficient energy management affects large numbers of employees, which is why consumption data and key figures must always be available – regardless of location and the equipment involved. METRAVIEW Energy provides you with the support you need – fully implemented via web technology, the open software can be integrated into any existing infrastructure and is also distinguished by simple configuration and intuitive operation, and it facilitates software-supported energy management in accordance with ISO 50001.

- Support for software-based energy management (ISO 50001 / ISO 50006 / ISO 50015) during the implementation and active phases
- Action-plan monitoring for energy efficiency based on the PDCA cycle
- Data validation and prognoses
- Balancing groups for displaying and checking the plausibility of measuring concepts
- Energy data acquisition
- Energy performance indicators
- Assignment to cost centers
- Energy (cost) reports
- Data basis for the optimization of energy evaluations
- Automated as well as manual meter reading and data acquisition, acquisition of all media such as electrical power, heat, gas, water, compressed air etc.



CURVES & TRENDS

Interactive, high-performance online and archive trend monitoring is available for process analysis. Flexible control functions make it easy to evaluate large volumes of data. Each user compiles his or her own individual charts and accesses analog data, meters or digital values as required. Pre-formatted combinations can be saved for individual use or shared flexibly among various users.

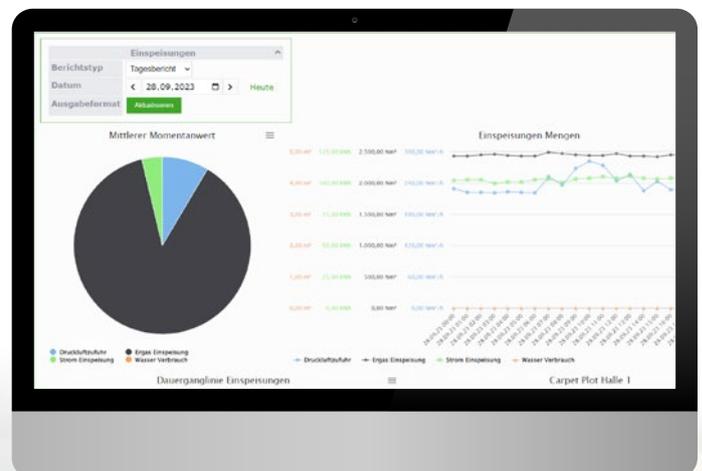


- Simultaneous display of up to 100 data points
- Various display modes, for example: online, archive, time comparison and much more
- Intuitive use (auto-scaling, X-Y zoom function, export etc.)
- Extensive formatting options (colors, diagram types and much more)
- Analysis functions: crosshairs, limit value and min./max. value displays

REPORTING

WebReports is a user-friendly and flexible reporting front-end that makes it possible to gain real value from your data. Reports are configured and generated automatically without IT knowledge. Efficient compression of recorded data into aggregates serves as the basis to this end. Calculation functions and extended aggregate functions permit mapping of various process characteristics.

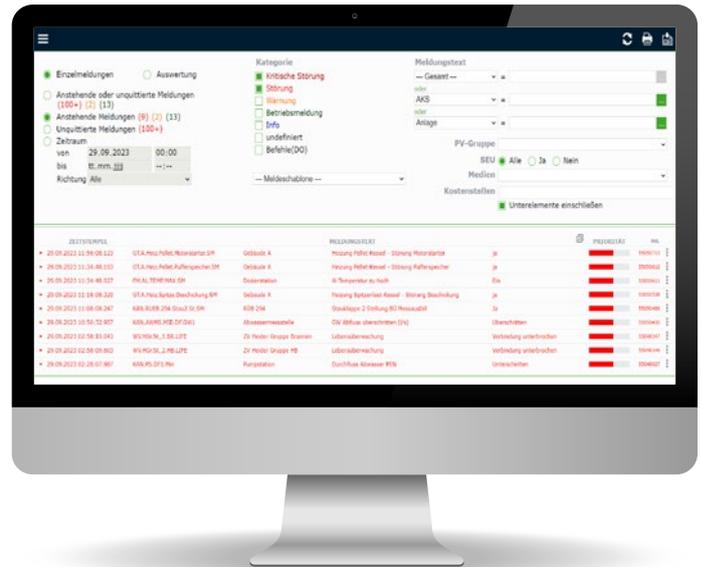
- Intuitive, easy-to-use report designer
- Tables, charts, diagrams, widgets
- Automatic transmission via e-mail or FTP



ALARMS AND ESCALATION

The intelligent alarm platform ensures maximum system availability by means of targeted alarms in the event of a fault. Long-term archiving of all operating and fault messages makes it possible to fully trace historical events. On the basis of priorities and notification parameters, the system makes decisions regarding urgency and alerts users via voice call (also VoIP), SMS, push notification or e-mail. The software also facilitates complete on-call and shift planning including a calendar function, dispatching, multiple alarms and notification channel escalation.

- Message archive including frequency analysis
- Integration of message lists into visualization and dashboard
- Various alarm channels, e.g. e-mail, telephone, SMS
- Escalation according to notification channel and user
- Synthetic voice generation



VISUALIZATION

SCADA functions provided by METRAVIEW offer powerful and reliable visualization, high-performance refreshing of all data and very fast image changes – in stand-alone solutions as well as when accessed via the network. Benefits include outstanding, customized user interfaces and intuitive system operation.



- Loss-free zooming thanks to vector graphics
- Easy integration of charts, analyses, trending and message lists
- Zoom level-dependent showing and hiding of elements
- Easy navigation thanks to context menu
- Security features: encryption, 2-factor authentication, password rules

SCADA



DASHBOARD

The dashboard keeps the most important data in sight at all times – compact, simple and well-organized. Widget elements such as speedometer, bar graph, totals or diagrams can be arranged easily and intuitively. Visualization elements, text messages and many other sources of information can also be easily integrated. Thanks to the responsive web design, the dashboard is suitable for all display sizes, i.e. PC monitors, tablets and smartphones.

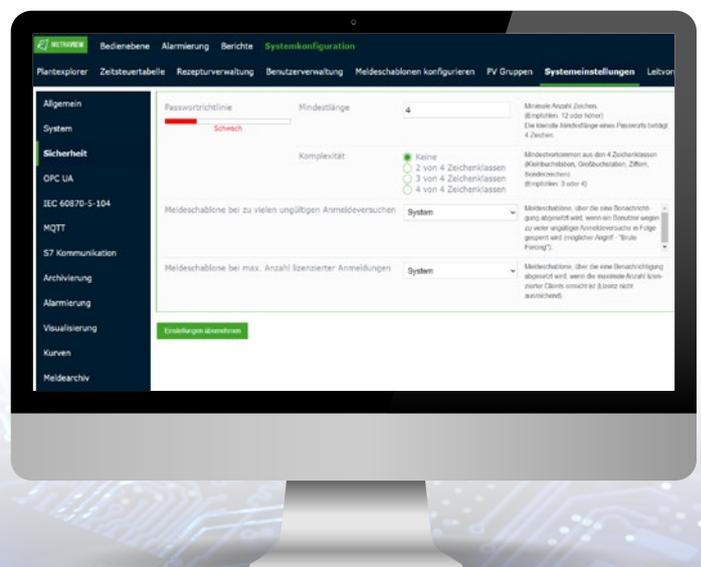


- Flexible, web-based tile editor
- Responsive design
- User-specific dashboard with sharing function
- Charts, trends, widgets, lists and external sources

SECURITY

Security concepts for industrial control technology should be based on various levels (defense-in-depth). At the applications level, METRA-VIEW offers a broad range of various functions for safeguarding your systems. System administrators welcome the web-based architecture due to its familiarity, simplicity and secure integration.

- TLS-encrypted access
- 2-factor authentication
- Active directory integration
- Detailed assignment of rights via user administration
- Configurable password rules
- Forced initial password change
- Login restricted to internal LAN
- No backdoors and protection against brute force



SERVICE AND SUPPORT

SOFTWARE UPDATE SERVICE

By subscribing to the recommended software update service (also possible in conjunction with a maintenance contract), you always enjoy the benefits provided by the latest version of METRAVIEW, which is optimized and updated on a continuous basis. Updates can be readily budgeted thanks to fixed, plannable, transparent costs.

Our updates ensure continuous compatibility with technologies, operating systems and web browsers. New software versions are adapted to current security standards by making them stricter, and by implementing new security features. During the term of the contract, you receive the latest license updates on a proactive basis and have access to the most recent service packs and product versions.



GOSSEN METRAWATT – YOUR PARTNER FOR PROJECT PLANNING

We're your partner for energy data acquisition, power analysis, power measurement and load optimization, and we provide you with project support as a full-service supplier in the field of measuring technology – everything from a single source!

In addition to support with project planning, we also help you train your employees, provide you with samples and demo equipment and are happy to conduct initial startup on site with our project engineers.

SUPPORT FOR PROJECT PLANNING

- Consultation on technical planning details (project planning)
- Sales and technical support on site at the customer's location
- Provision of tender texts on <https://ausschreiben.de> or on a project-specific basis
- Advice on use cases in the fields of energy management systems (EMS), load management systems (LMS) and power quality
- Feasibility studies concerning the integration of existing measuring points with equipment from other manufacturers (technical assessment of the on-site infrastructure).

ENERGY AND POWER QUALITY SOLUTIONS

ENERGY MANAGEMENT



MODULAR SUMMATOR
U1604



MULTIFUNCTIONAL ENERGY METER WITH MID APPROVAL
ENERGYMID SERIES



CERTIFIED ENERGY LOGGING IN MINIATURE FORMAT
METRALINE ENERGY SERIES



TRANSPARENT MONITORING OF POWER QUALITY AND ENERGY CONSUMPTION
SINEAX AM SERIES



INTELLIGENT ENERGY SENSOR SYSTEM
ENERGYSSENS

POWER ANALYSIS



MONITORING OF POWER QUALITY PER IEC 61000-4-30, ED. 3 IN CLASS A
LINAX PQ3000



NORMATIVE PQ MONITORING AND ENERGY CONSUMPTION ANALYSIS
LINAX PQ5000



POWER QUALITY MONITORING IN THE ELECTRICAL SYSTEM ON A 19" RACK PER EN 60297
LINAX PQ5000 RACK



WIRELESS ACQUISITION OF LOAD FLOW
PME WIRELESS MODULE





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