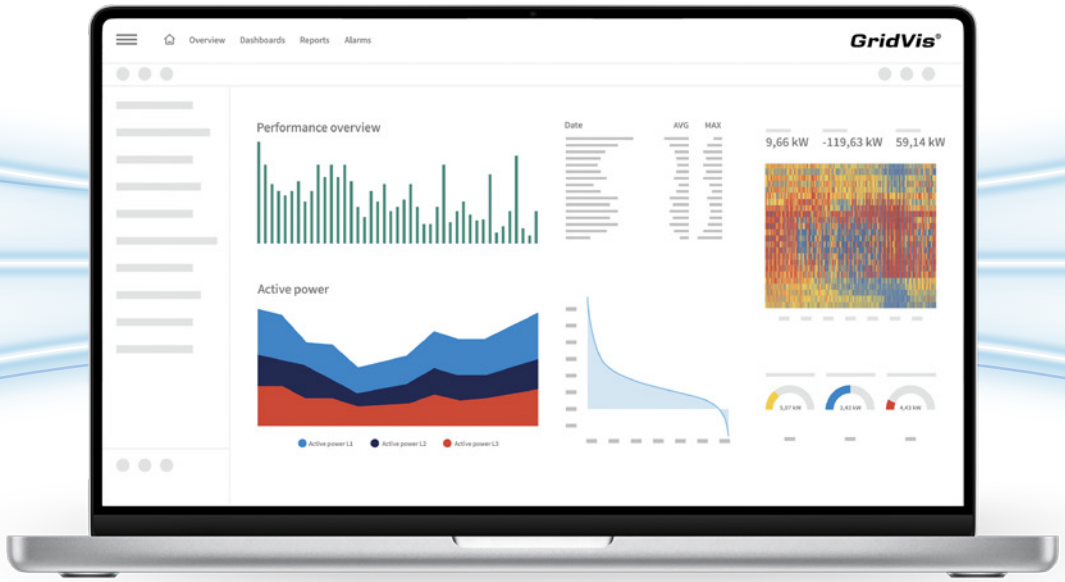
Smart Energy & Power Quality Solutions

GridVis® – Power Grid Monitoring Software



GET THE MOST OUT OF YOUR ENERGY DATA

Janitza

USING ENERGY DATA CORRECTLY

In a world where energy data is worth its weight in gold, its efficient use is essential. However, managing the ever-growing flood of data presents many companies with significant challenges.

Janitza's GridVis® Power Grid Monitoring Software makes the invisible visible and transforms complex energy data streams from an opaque black box into valuable, manageable information. With a variety of data analysis tools, GridVis® enables the visualization of energy flows across all media, generates meaningful key performance indicators (KPIs), and offers alarms and automation.

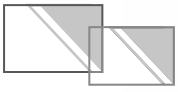
These functions are essential to solve a wide range of problems effectively.

Visualizing energy flows with GridVis® makes costs and CO_2 emissions tangible and controllable. It not only supports compliance with normative requirements such as ISO 50001 but also facilitates the creation of KPIs, measured values, and automated documentation. The software creates comprehensive transparency in your energy flows, detects faults early, and helps to improve the availability of your systems.

LOWER YOUR ENERGY COSTS

SECURE CERTIFICATION

GET AN OVERVIEW OF CO_2 EMISSIONS



ENSURE TRANSPARENCY

COMPLY WITH REGULATORY REQUIREMENTS

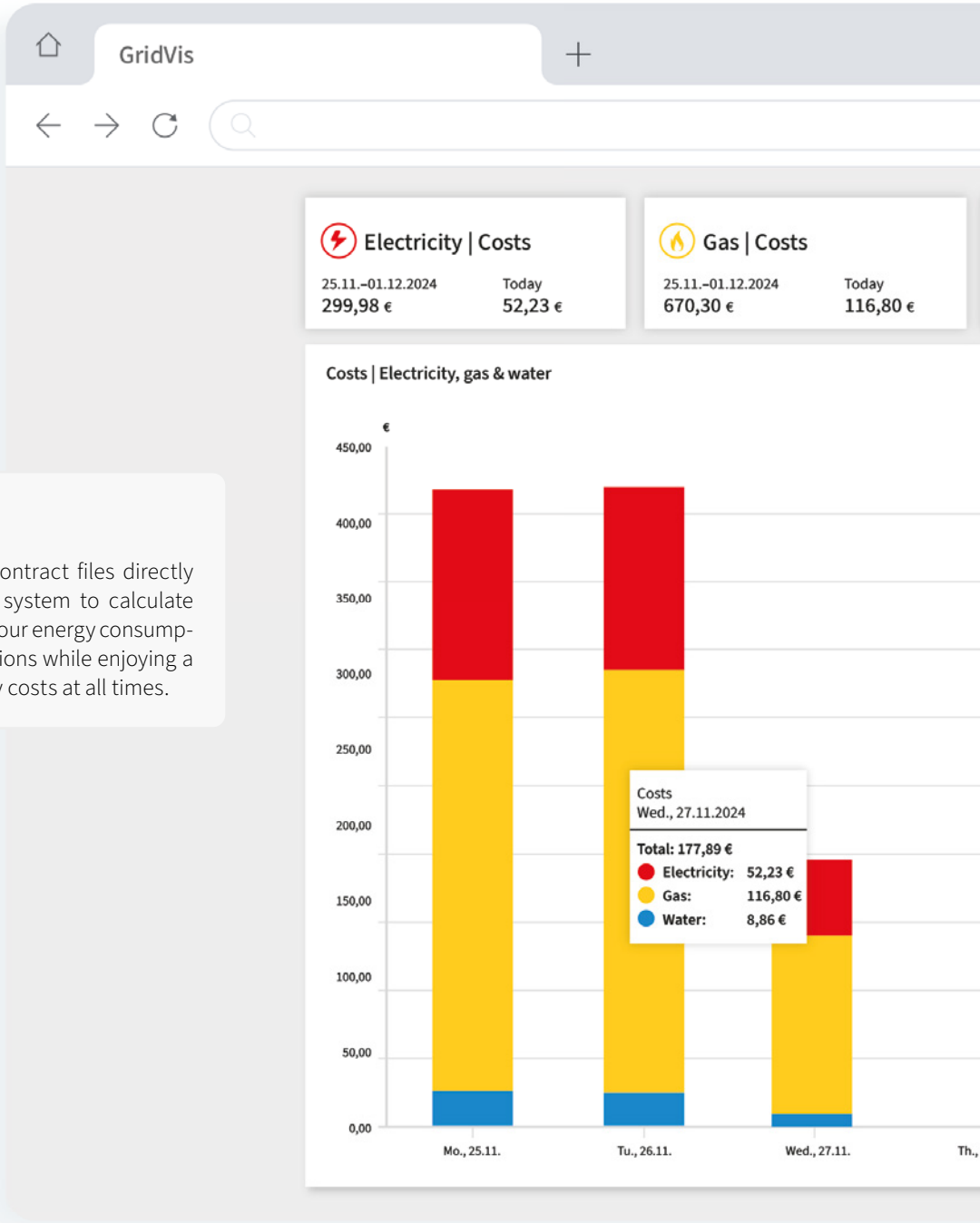
ENSURE HIGH AVAILABILITY

Power Grid Monitoring Software

LOWER YOUR ENERGY COSTS

Display your energy-related costs simply and clearly. Contracts and conversion factors can be easily stored, allowing costs to be calculated automatically.

Once you have an overview, energy losses and avoidable costs can be identified and reduced in the long term by means of targeted measures.



REDUCE COSTS

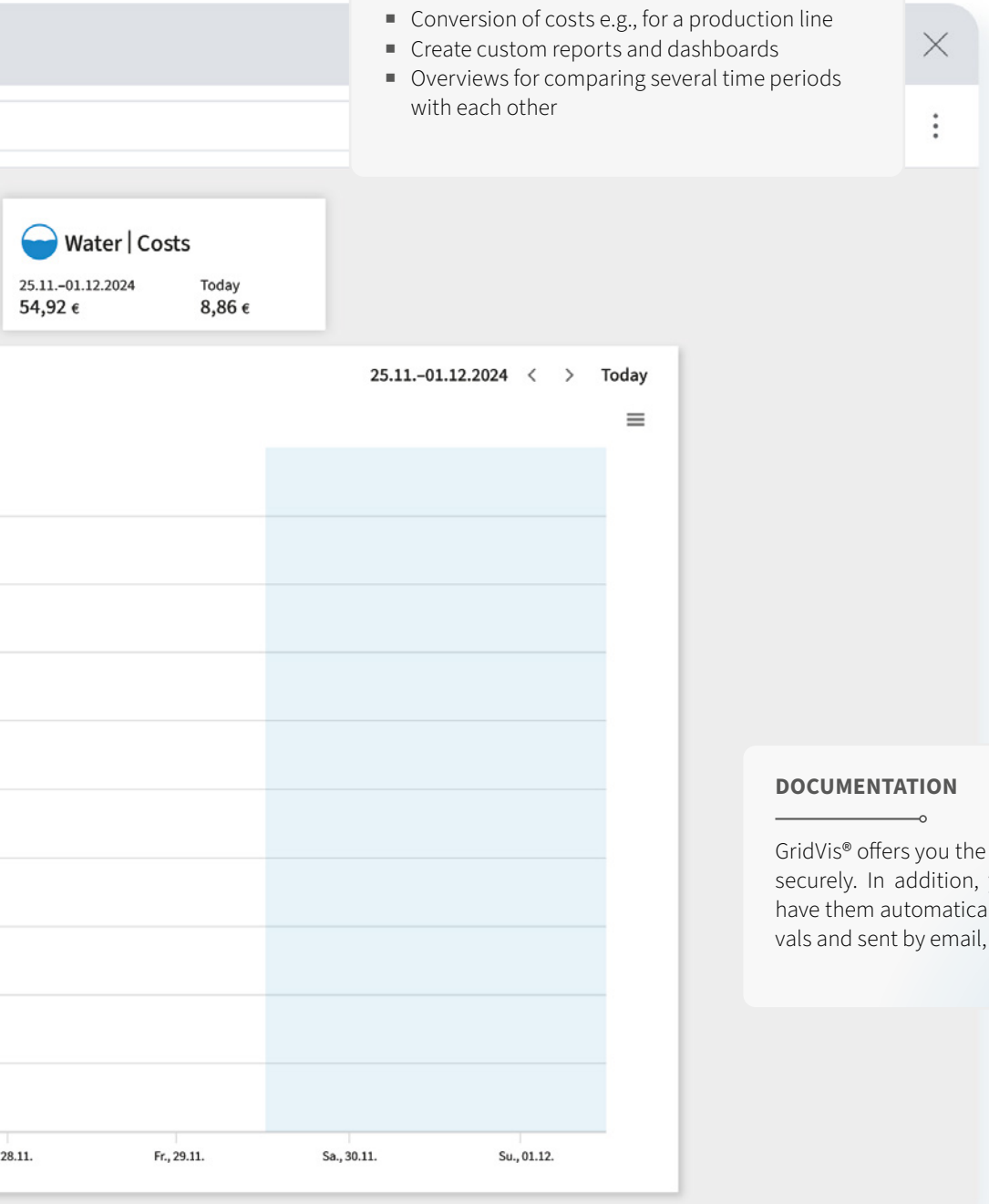
Integrate your utility rate or contract files directly into GridVis®. This allows the system to calculate costs automatically based on your energy consumption. Eliminate manual conversions while enjoying a precise overview of your energy costs at all times.

Energy costs

EVALUATIONS

Use numerous tools and functions to evaluate and compare data easily:

- Creation of KPIs to check the effectiveness of measures
- Conversion of costs e.g., for a production line
- Create custom reports and dashboards
- Overviews for comparing several time periods with each other



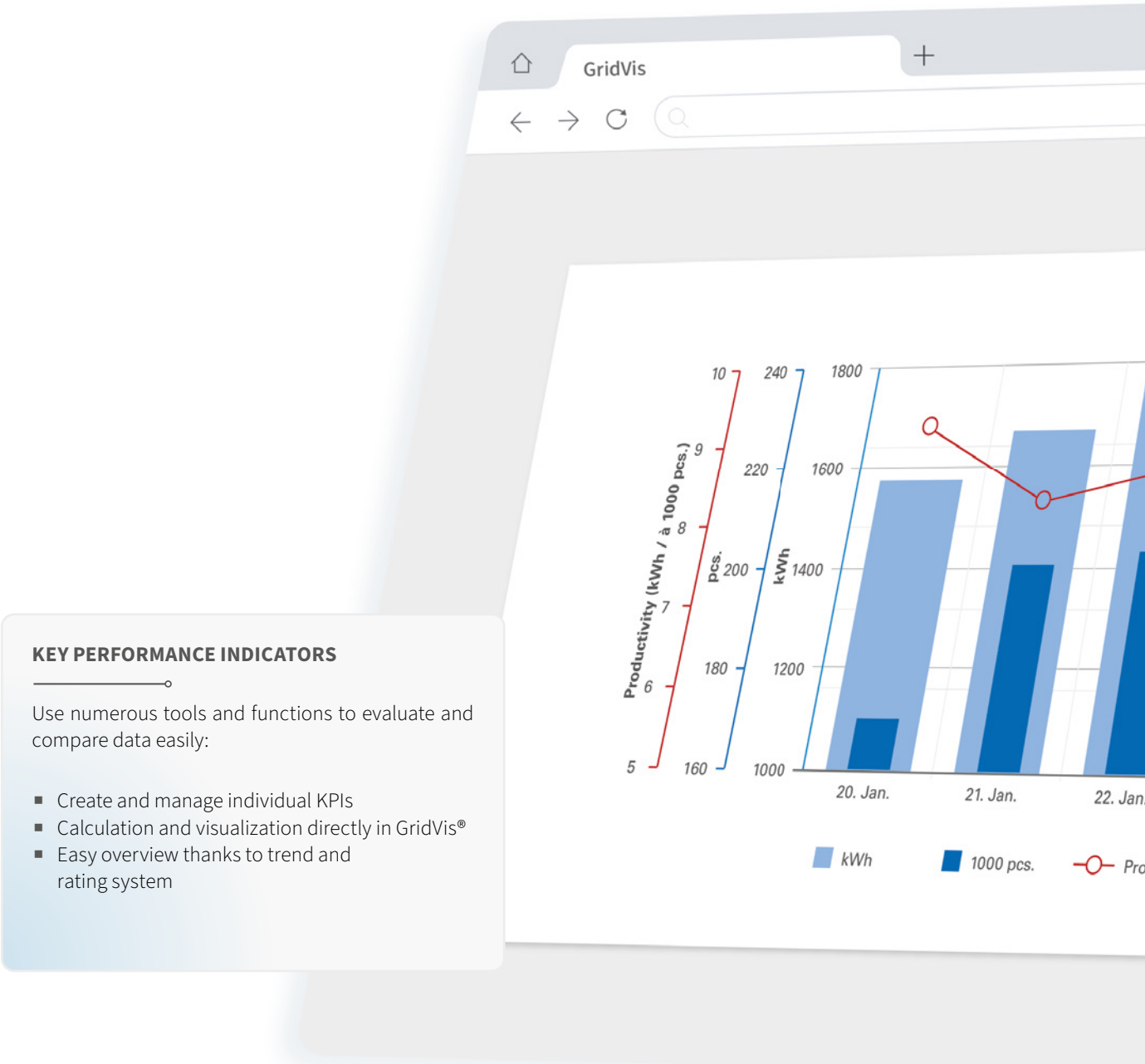
DOCUMENTATION

GridVis® offers you the possibility to store your data securely. In addition, you can create reports and have them automatically generated at regular intervals and sent by email, for example.

COMPLY WITH ISO 50001

GridVis® helps you to evaluate energy data comprehensively and obtain ISO 50001 certification. Present meaningful KPIs and document the effectiveness of the measures taken.

Whether electricity, gas, water or other media, GridVis® offers a complete overview and supports ISO 50001 compliance.



KEY PERFORMANCE INDICATORS

Use numerous tools and functions to evaluate and compare data easily:

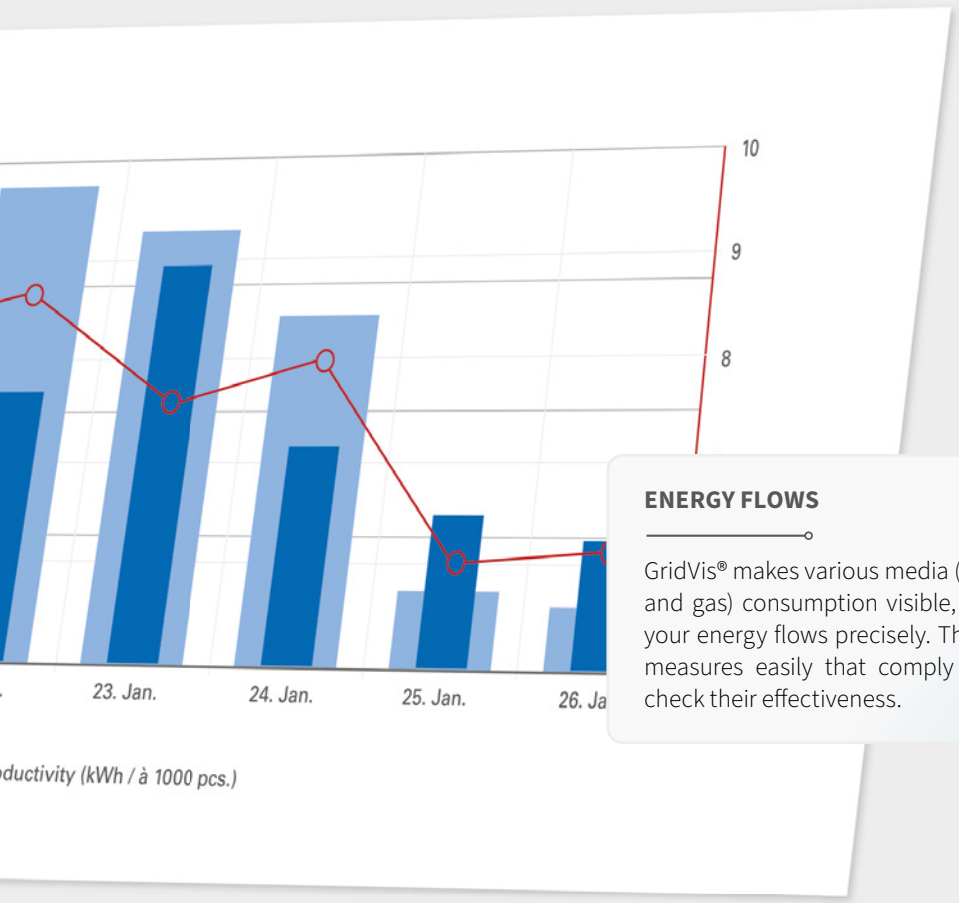
- Create and manage individual KPIs
- Calculation and visualization directly in GridVis®
- Easy overview thanks to trend and rating system

ISO 50001

VISUALIZATION

Create visual overviews of your data to capture all important information at a glance:

- Clear presentation of measured values and temporal developments
- Customizable dashboards with KPIs and live values
- Individually created reports for documentation



ENERGY FLOWS

GridVis® makes various media (e.g., electricity, water and gas) consumption visible, helping you to track your energy flows precisely. This allows you to take measures easily that comply with standards and check their effectiveness.

GET AN OVERVIEW OF CO_2 EMISSIONS

Get a quick and easy overview of your CO_2 emissions. With GridVis® you can automatically convert your energy consumption into emissions, simplifying Scope 1 and 2 reporting and coverage.

This simplifies accounting and helps to meet standards and requirements as well as protect the environment.

MANAGE CONTRACT FILES

Store contract files in GridVis®. The system then automatically calculates your CO_2 emissions. Other gases and environmentally harmful substances are converted into CO_2 equivalents – for better comparability and easy overview.

CO_2

UNDERSTANDABLE OVERVIEW

- Easy-to-understand and easy-to-use dashboards
- Intuitive consumption analysis
- Extensive evaluation and comparison options

GAS, WATER, COMPRESSED AIR

With GridVis® you can not only evaluate your electricity consumption and convert it into emissions, but all other energy sources and forms can also be integrated and stored in the software. This way, you can manage all your Scope 1 and 2 emissions in one system!

CREATE TRANSPARENCY

GridVis® enables you to process the enormous amounts of data necessary to create comprehensive transparency easily and clearly. Transparency is the basis for all measures relating to energy efficiency, costs, compliance with standards, and many other operational goals. Whether read in directly or imported, GridVis® presents even complex information clearly.

EVALUATIONS

GridVis® offers various tools, such as the KPI editor and comparison functions, which allow you to not only display but also comprehensively evaluate your energy data. This allows you to identify correlations and causes, track developments, and graphically represent complex issues.

OVERVIEWS

- Custom and standardized dashboards and reports
- Visual presentation for easy-to-understand data
- Automatic documentation in the form of reports

DATA IMPORTS

- MSCONS, CSV, OPC UA, or manual data entry
- Import data for a wide variety of media (e.g., water, gas, fluids)
- Additional information such as production data or quantities

COMPLY WITH STANDARDS

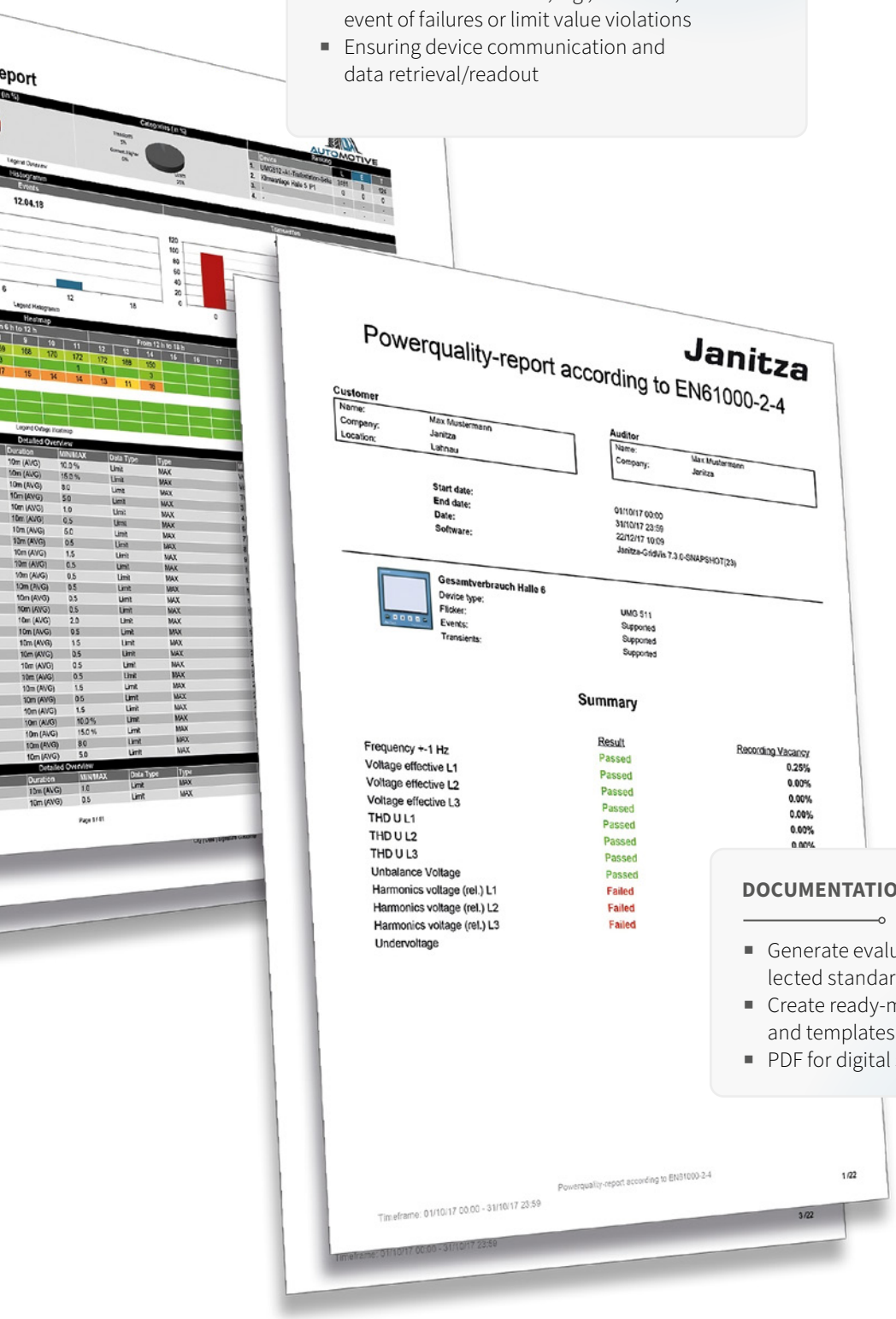
Standards provide safety regulations, describe rules relating to energy consumption and efficiency, and are mandatory for many companies. GridVis® includes a whole range of evaluation options for various standards, thus supporting compliance and documentation efforts.

STANDARDS

- Standardized reports for numerous power quality standards (e.g., EN 50160 or EN 61000-2-4)
- Evaluation of residual current, e.g., for DGUV V3
- Monitoring and evaluation of energy data for various energy management standards

ALARMS

- Easily set and monitor limit values
- Immediate information, e.g., via email, in the event of failures or limit value violations
- Ensuring device communication and data retrieval/readout

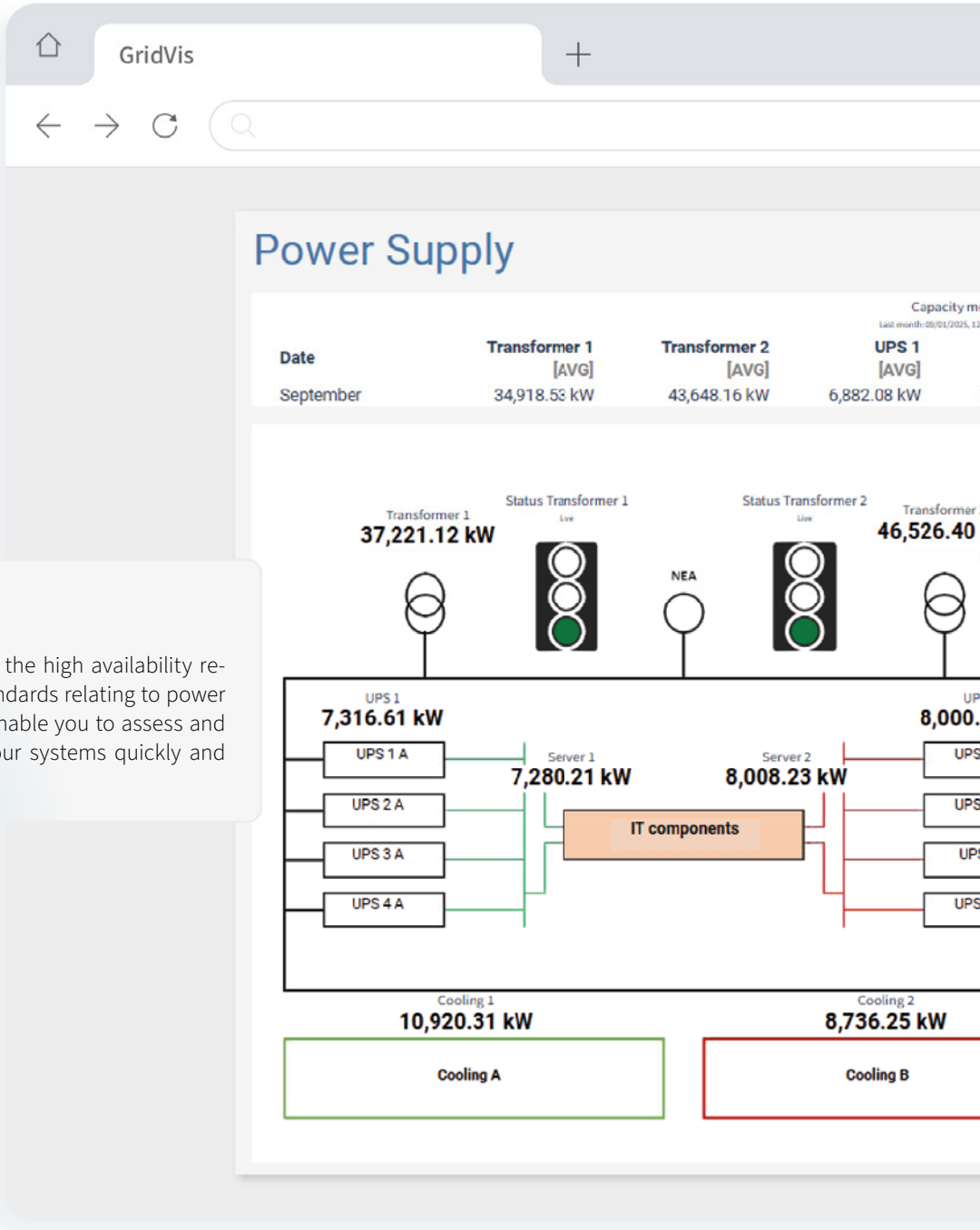


DOCUMENTATION

- Generate evaluations according to selected standards at the touch of a button
- Create ready-made reports and templates
- PDF for digital storage or printing

ENSURE HIGH AVAILABILITY

GridVis® helps you detect power quality disturbances and monitor your residual currents. The alarm system allows for a quick response to deviations and limit value violations. This enables immediate action to prevent breakdowns, damage, and unnecessary wear and tear. You can also use the tools to uncover the root causes of events.

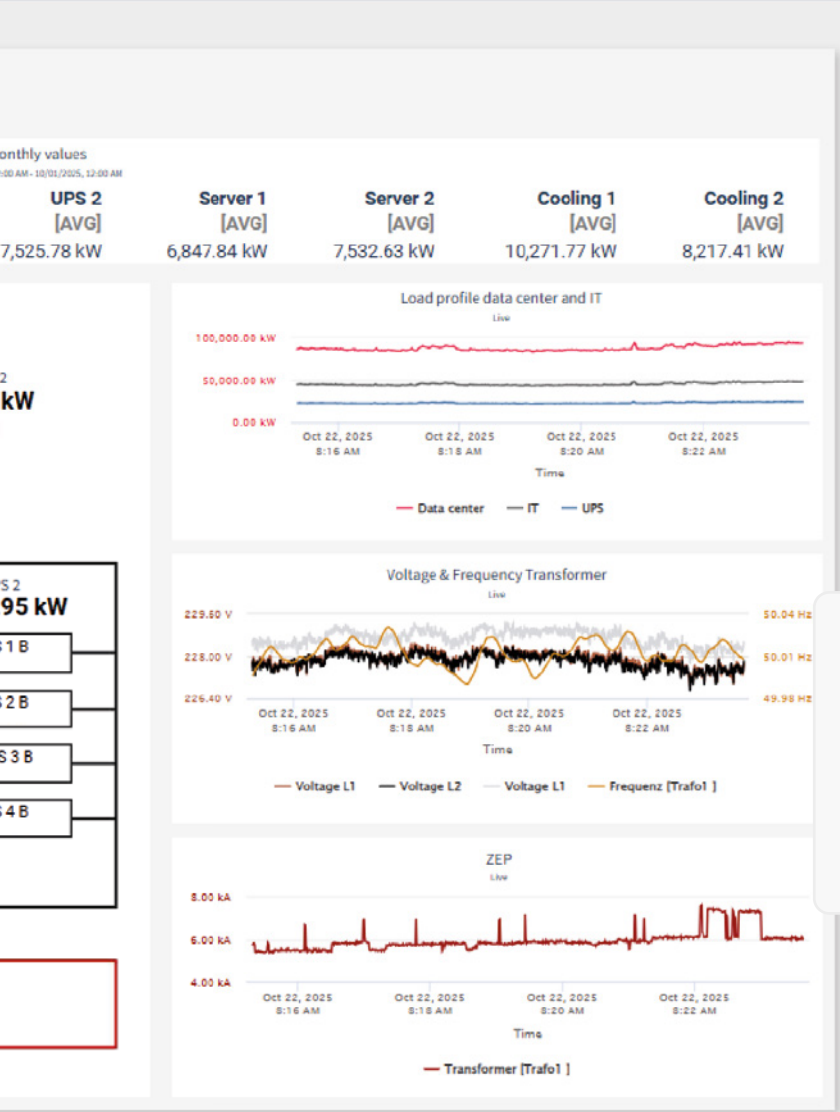


STANDARD CONFORMITY

Standardized reports, such as the high availability report or reports on specific standards relating to power quality and residual current, enable you to assess and document the condition of your systems quickly and easily.

CAUSE ANALYSIS

The various analysis tools, such as the event browser, enable in-depth root cause analysis. This way, you can not only identify problems but also identify their causes and eliminate them in the long term. Dashboards with special PQ objects help you to present complex relationships in an understandable way.



LIMIT VALUE MONITORING

- Create limit values for various measured values
- Automated limit value monitoring and immediate alarm in the event of deviations
- Constant monitoring of device communication and memory reading

MANAGING THE FLOOD OF DATA

GridVis® is a tool for monitoring energy consumption and supports you in analyzing voltage quality and monitoring residual current. These functions are essential to ensure the efficient operation of your systems and to identify potential risks at an early stage.

The Power Grid Monitoring Software ensures high availability in your systems by detecting potential faults at an early stage.

ENSURE AVAILABILITY

- Power quality and residual current always in view
- Monitoring compliance with standards
- Visualization for easy understanding of complex issues
- Limit value monitoring and automated alarms
- Simple documentation with standardized reports for evidence

CREATE TRANSPARENCY

- Tools for comprehensive energy transparency in your company
- Overview of energy costs and consumption
- Reliably determine CO_2 emissions
- Improve energy efficiency and reduce costs
- Successfully implement intelligent energy and load management

FLEXIBLE APPLICATIONS OF YOUR SOFTWARE

GridVis® is scalable in both scope and functions. This means it can be used in numerous sectors and applications – from small businesses to large manufacturing plants, data centers, airports, and major building complexes.

DATA CENTER

MANUFACTURING INDUSTRY

BUILDINGS AND INFRASTRUCTURE

Application in data centers
Energy monitoring software for data centers has numerous tasks. High availability is important in data centers because every failure costs a lot of money. High availability depends entirely on a reliable power supply and maintaining the required grid compatibility level. Utilization rates and extreme values for many parameters must be monitored continuously.

GridVis® offers tools for all essential core tasks and supports operations with customized functions for daily operational business. With GridVis® you can:

- Improve energy efficiency
- Ensure high electrical availability
- Monitor fire protection and EMC
- Manage cost centers

Application within an industry
Industry must handle various challenges. Whether it is about energy management according to ISO 50001, security of supply, or the recording of CO_2 emissions, GridVis® supports you in all aspects.

With numerous functions, you can monitor and analyze your energy data and have an overview of all important information at all times. Standardized reports in accordance with numerous standards make both documentation and analysis easier. This creates the basis for standard-compliant energy management and a secure power supply. You will also sustainably reduce your energy costs. GridVis® helps you:

- Implement ISO 50001 in compliance with the standard
- Evaluate and monitor CO_2 emissions
- Prevent disruptions and failures

Application in building management
With GridVis® you can make your building management more efficient and sustainable. The Power Grid Monitoring Software creates transparency and provides detailed insights into your energy data. This is how to evaluate the CO_2 emissions of your buildings and identify avoidable consumption. In addition, GridVis® enables the evaluation of energy costs for various consumption media, such as gas, water, or heat.

With GridVis®, you can optimize your building management while helping to reduce operational costs and CO_2 emissions. GridVis® supports you in these tasks:

- Evaluating and monitoring CO_2 emissions
- Conducting comprehensive consumption analyses
- Sustainably reducing energy costs
- Creating comprehensive transparency
- Creating individual evaluations

ENERGY DATA RECORDING

WHEN HARDWARE AND SOFTWARE INTERACT

To achieve the best results with GridVis®, you need reliable data. In addition to GridVis®, Janitza also offers the necessary hardware. With energy analyzers such as the UMG 800 or specialized measurement devices such as the UMG 96-PQ-L-LP for measuring power quality, you receive a reliable database and benefit from the advantages of a system solution from a single source:

Perfect coordination
Our hardware products and software solutions are precisely coordinated to ensure maximum power and reliability.

Comprehensive advice
We offer not only products but also advice – tailored specifically to your needs. This way, you benefit from a thorough understanding of both system components and minimize the risk of interface problems.

No gaps in jurisdiction
Since hardware and software come from the same company, there is always a clear point of contact for questions or problems.

Rely on an integrated solution that simplifies your workflows and boosts your energy efficiency. Our system provides the assurance that everything will run smoothly, allowing you to concentrate on what matters most: your core business.

EXPAND YOUR SOLUTION

ADDITIONAL OFFERS REGARDING GridVis®

The multi-protocol server extends the connectivity of GridVis®. Users benefit from a low setup effort and high data availability. With the multi-protocol server, you can use your measurement data at the OPC UA level.

In addition, Janitza offers various services related to GridVis®, including various training courses designed to teach you how to use GridVis® or further expand your understanding.

Multiprotocol server

- Multi-protocol server with integrated GridVis® driver in addition to the OPC UA Client
- Low setup effort and high availability of all measurement data
- GridVis® measurement device structure directly in the OPC UA tree
- Attaching multiple GridVis® projects

Training sessions

- Training on how to use GridVis® for beginners or advanced users
- Get answers to your personal questions
- In-person or online training or individually in your company for maximum benefit

Further information about the entire Janitza portfolio

ABOUT JANITZA

Janitza develops comprehensive energy measurement solutions that ensure transparent energy flows and monitor power quality. The global company, headquartered in Germany, provides individual solutions to meet specific customer requirements across a wide range of industries, including data centers, manufacturing, buildings & infrastructure, utilities, and renewable energy.

PRODUCT RANGE

Janitza's portfolio includes innovative measuring devices and the perfectly integrated Power Grid Monitoring Software GridVis®, complemented by high-quality components. Customers worldwide benefit from solutions in energy data management, power quality monitoring, and residual current monitoring, all within a unified system environment – Made in Germany.

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