



Energy

Software Solutions for

Energy Trade and Procurement

 **KISTERS**
Empowering decisions of tomorrow

Software for Efficiency in Trade and Procurement

The expansion of renewable energy sources and the cost pressure in procurement have, in recent years, led to more complex and short-term transactions in the trade and procurement of energy products, for example, to an intense short-term trading 24/7 and to more complex tradable products, from physical products to sometimes complex financial derivatives. Procurement strategies and markets thus have changed and new and changed risks have emerged.

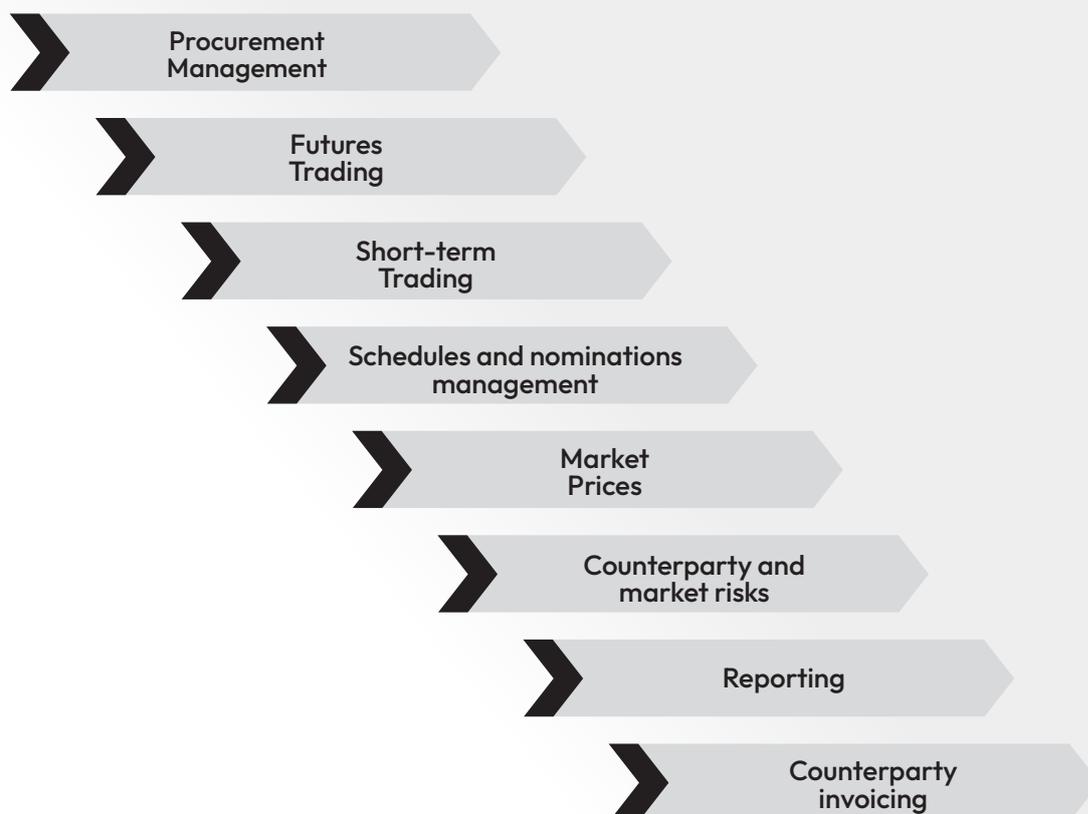
The software solution for processes in energy trading

Our software solutions are used in several areas to make the often complex and dynamic day-to-day business easier for traders and buyers: They provide out-of-the-box support for futures trading bilaterally, via trading platforms and via the exchanges in day-ahead and intraday trading. There is also process support for schedule and nomination management, comprehensive live reporting and the monitoring of risk positions. This allows you to keep an eye on expected demand and market developments as well as your purchases and sales - the best prerequisites for making the right decisions. Stay ahead of the competition thanks to comprehensive real-time information: you trade, our software solution takes care of the processing.



Procurement & Trade

With the process-oriented solutions, those responsible feel well supported in all their energy trading and procurement tasks.



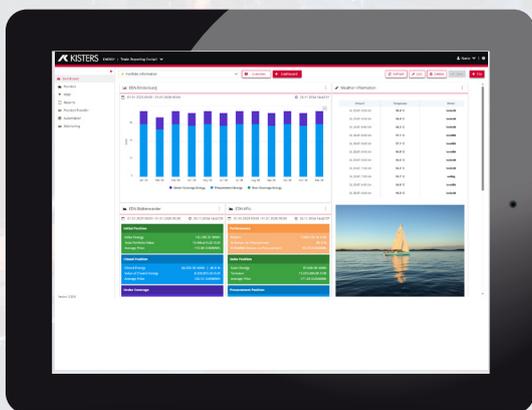
On the following pages you will learn how KISTERS solutions support your processes.

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➤ Procurement management

- Active procurement management and portfolio monitoring (B2B Platform)
- Professional portfolio management for energy purchasers in the wholesale market
- Permanent monitoring of margins, risks and limits
- A single end-to-end process from offer request to pricing, completion, forecast and procurement/production to billing
- Interface between portfolio manager, key account manager and clients
- Data available anywhere and at any time in your web browser
- Auditable processing and transparent reporting
- Direct connection to your PFM system and automatic synchronization

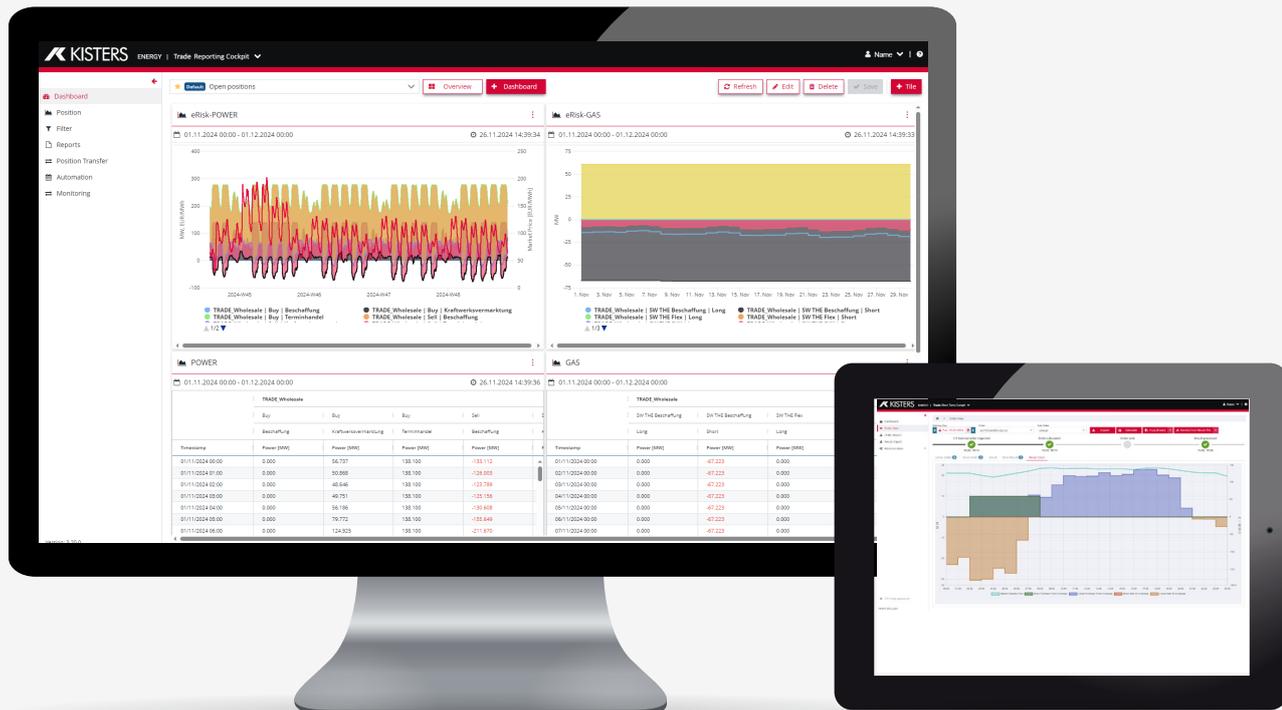


➤ Futures trading

- Counterparty and contract management
 - Categorized capture of all contract positions, supporting various volume and price models
 - Automated interfaces to exchange markets and broker platforms
 - Contract confirmation process: automatic (eCM: electronic confirmation matching) or semi-automatic
- Position and price analysis/decomposition
 - (Automated) decomposition of positions into standard trading products according to different hedging strategies
- Automated portfolio management and monitoring
 - Management models according to different trading strategies
 - Flexible configuration of procurement strategies (tranche model, fund model, corridor procurement)

➤ Short-term trading (dayahead, intraday)

- Auction trading
 - Support for dayahead and intraday auction, linear and block bids (smart blocks) at different stock exchanges (EPEX, EXAA, Nordpool) at many European markets via API
 - Flexible formulas and rules to describe day-ahead positions
 - Netting and taking advantage of volume synergies
 - Management of part bids and automated position management
- Continuous intraday trading
 - Replacement procurement and portfolio optimization
 - Live monitoring of assets and positions
 - Reduced trading volume due to automated netting
 - Connection to algo-trading solutions via API and stock exchange client Order management
- Automatic, portfolio-specific feedback of concluded deals, automated processing and internal booking



➤ Schedule management, nominations, regulatory reporting

- Developed for the European markets
- Flexible management of balancing groups and subgroups
- Semi-automatic and automatic generation and sending of schedules via e-mail, FTP/SFTP or forwarding to a service provider for AS2/AS4, etc.
- Configurable dashboards for monitoring
- Schedule management for power according to European market rules, fully automated with flexible configuration
- Fully automated nomination management for gas

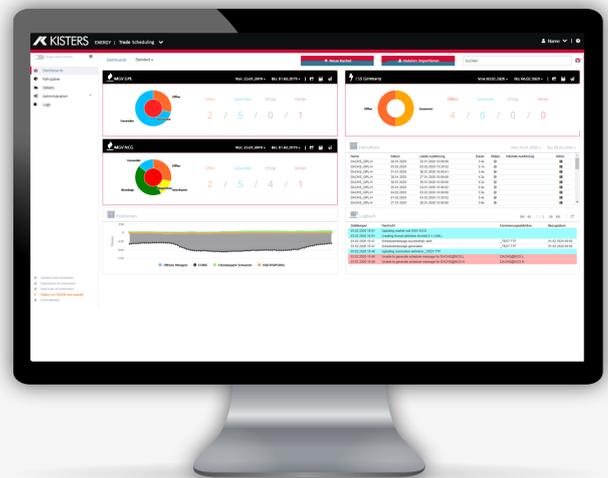
➤ Market Prices

- All price data in a single database
- Easy access to price data from different providers (EEX, EPEX, ECT, Montel, etc.)
- Data storage and calculation of derived information/time series
- Provision of data for other software (interfaces) and the user (visualization)
- High level of automation; no user interaction required usually
- Connection of Matlab, Python, R, Excel for deeper analyses

Cloud solution increases flexibility

The entire software solution for procurement and trading is available as **Software as a Service (SaaS) from the certified KISTERScloud**. This means for you: You do not acquire the software itself, but the right to use it - completely or partially, with a certain number of users, over a certain period of time, via the Internet. Additional options are e.g. backup service, monitoring, on-call service, update service and administrative support. The software runs in the certified KISTERS Data Center in Aachen (Germany) and you access it via web browser, of course password-protected. Running your system as a KISTERScloud solution **is quick** and requires **little investment**.

We are happy to advise you on the appropriate SaaS solution for your company.



➤ Counterparty and market risks

- Management of market data and risks (market price, volume, liquidity, basis, and validity risk) as well as financial risks (payment default, advance performance, replacement (resale))
- Key figures (M2M, M2F, PnL, PaR, etc.)
- Scenario builder
- Dashboards with risk evaluations and presentations
- Open interfaces to ETRM

➤ Reporting

- Extensive evaluation options for position determination
- Individual and convenient trading overviews
- Live dashboards (graphical and tabular)

➤ Counterparty invoicing

- Cross-commodity customer and trading partner billing, invoices, credit memos, advance/partial payments, invoice corrections, energy and demand charges
- Flexible definition of billing items: per customer/counter party, per price component, per tax procedure and rate, per flexibly definable billing interval
- Different designs/layouts via template configuration
- Generation of cross-commodity netting statements
- Monitoring of payments
- Sending invoices by e-mail including signature

KISTERS Software for Energy Trading and Procurement

BelVis PFM: Portfolio management for power and gas

Futures, day-ahead and intraday trading, analysis of markets and prices, scheduling and nomination, balancing group management, detailed portfolio analysis, overview of open positions, automation, reporting

B2B Platform: Digitization of trading processes

Active procurement management and portfolio monitoring, anywhere, anytime, in web browsers and on mobile devices, access-protected, automatic synchronization with the PFM system, useful as the link between portfolio managers, key account managers, and customers

Short-term Cockpit: Trading at the short-term markets

Best possible utilization of the volatile portfolio, automation of trading taking into account prices, transaction costs and relevant market information

Scheduling Cockpit: Market communication for energy trading

Cross-commodity schedule and nomination management for power and gas, shipping/processing of country-specific messages, deadline management, alerting, status overview, automation

Market Prices Database: All price data in a single database

Easy access to price data from different providers (EEX, EPEX, Trayport, WattSight, Reuters, ENTSO-E etc.), import and validation of price data, interfaces, visualization

KiTRMS: Fulfillment of the reporting obligations

Comfortable reporting tool for reporting obligations according to REMIT, EMIR, EU transparency regulation, EEX transparency platform, ERRP, GLDPM

... and other useful components





About KISTERS

Do more than react to the effects of climate change; help plan climate resilience with us as we work closely with our customers. We develop digital solutions to advance the monitoring and forecasting of water and the environment, so environmental managers have salient information to plan for and face difficult decisions about flooding and drought as well as ensuring the delivery of clean water. Monitoring of ground and surface water, meteorological measurements, flood forecasts, storage operation and safety, preservation of water quality or urban drainage: The daily processes and decisions in authorities and companies are optimally supported by the efficient KISTERS water solutions - from the collection, processing and analysis to the publication of water data. The tailor-made solutions are used worldwide by local, regional, national and supra-national authorities, associations, engineering offices and research institutions.



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