



The power of one.

# Energy

Digitalize your workflows to make faster, smarter decisions. Propel your business by adapting to dynamic changing energy markets



Make faster,  
smarter decisions  
to propel your  
energy business

[www.eka1.com](http://www.eka1.com)

# Overview

Energy markets are inherently characterized by complexity. Unprecedented volatility in energy prices, complex logistics and supply chain operations, an evolving regulatory environment are significant challenges facing energy companies. To effectively deal with these challenges, today's energy and resource industries are adopting new technologies to manage their trading risks, customer demands, market volatility, supply chain operations, sustainability mandates and other end-to-end value chain functions.

## **Volatile markets**

Overnight news events, geopolitical tension, economic reports, or a tight supply situation are enough to drive sudden market movements in crude oil trading. Any variation in the supply or demand due to changes in production, weather, economic growth, supply storage or substitutes, causes large swings in its price.

## **Vast and complicated operations**

Marketers, refiners, and E&P companies need to constantly track futures trends, price movements, and changes in production and supply while managing inventories of crude, refined, and blended products.

## **Growing energy consumption**

Procuring more output from existing oil fields is costly, and the logistics, supply systems, and political alignment needed to extract oil from new sources is complex, expensive, and time-consuming.

## **Complex transportation**

Transporting Natural Gas is complicated owing to many operational challenges that involves liquefaction into LNG, transportation, and then regasification.

## **Regulatory requirements**

Complying with government and regulatory requirements such as Dodd-Frank is an important part of risk management and corporate governance initiatives.

## **Regional nuances for power**

Power generation is region-based and highly complex, and the regional nature of power generation is critical for making successful trades.



Eka's multi-commodity cloud native platform enables you to manage your workflows from risk management to energy trading, supply chain and downstream to expertly adapt to market changes.



# Eka Cloud Platform

Eka's platform for trading and risk, financial management and supply chain helps energy companies optimize business processes, gain efficiency and explore new opportunities.

## Extend your value chain data with powerful enterprise applications

Unlock the value of your data from sourcing to trading and risk, supply chain and financial management with 50+ mobile applications.

## Analytics for better visibility and faster decisions

Perform on demand analysis using trusted data with custom dashboards, drill downs, visualizations and embedded machine learning algorithms for anomaly detection.

## Automate business processes faster

One platform makes it easier to transform complex processes into applications. Built-in schedulers, workflow engine and custom applications help drive productivity.

## Integrate data and systems

20+ built-in connectors and open APIs enable you to easily bring external data from ERP systems and other sources including market, weather, compliance and your database.



Single open cloud platform



Low code/no code automation



Common data model



Role based data-driven insights



Mobile engagement, access everywhere

## Security

Eka's platform complies with industry standard security guidelines, including SOC 2 Type I, SOC 2 Type II & GDPR. It has single sign-on via industry standard authentication protocols, encryption of data in transit and at REST, and is integrated with best-in-class DLP, EMM and archival partners. It has been validated under Veracode Verified Standard status.



## Faster decision making and easy integration

Headquartered in Texas, this energy company who is a leader in the wholesale marketing of energy-related commodities was relying on manual processes and numerous systems to manage trading while growing up. This led to delays, errors, and increased cost of operations. They needed a consolidated system for reporting and one system of record to ensure accuracy in risk calculations.

The company implemented Eka's platform for Energy to manage trade capture and management, scheduling and operations, forward curves, mark-to-market, position, VaR, P&L Attribution, what-if scenarios, settlement and invoicing as well as options valuations for natural gas, power, crude, NGL, refined products and renewables.

Having all the data on the Eka platform meant that reports can be generated in minutes, enabling faster decision making. Eka's easy integration with third party systems allows for automation consolidation, reducing manual effort.



## Real-time consolidated view of position

Prior to working with Eka, the REG team relied on multiple spreadsheets to record market positions across its source crop and energy assets. Consolidating all these spreadsheets into a single view for decision-making would take 4 days to complete.

They implemented Eka's Position and Mark to Market application. On launch, it ran in parallel with the existing manual reporting process. As the two systems ran concurrently, errors created in the spreadsheet process were revealed – errors that did not happen with Eka's automated, more accurate system.

The calculation of market position now takes 30 seconds, so the REG team knows their market position across both the crop and energy markets immediately and can make decisions accordingly.



# Key applications for energy

Eka's enterprise apps are embedded with years of deep domain algorithms that let commodity businesses adapt to market dynamics with self-service, always-on engines. Simply choose the application you need and go live on time and on budget. It is fast, easy, and cost-effective. Evaluate product demonstrations, install your apps and receive training remotely, ensuring your business thrives in the most challenging environments.

**Pt****Physical Trades**

Manage multi-product, multi-grade, multi-location contracts. Manage price exposure in real time. Plan and track all tasks with workflow management.

**D****Derivatives**

Get end-to-end management of exchange traded and over the counter financial contracts in one system for hedging and speculation.

**Pm****Position and Mark to Market**

Spot opportunities mitigate risks and arrive at a single point of truth of your overall exposure. Stay up to date on position exposure for physicals, derivatives, and FX trades.

**S****SCM (Logistics, Inventory & Settlement)**

Manage logistics and inventory operations from origin to destination. Drive more efficiency by tracking and optimizing movements across the supply chain.

**PI****P&L Explained**

Identify root causes in P&L. Drill into individual transactions, spot faulty assumptions, measure the performances of traders, books and businesses.

**Pn****Planning & Scheduling**

Stay on top of complex scheduling from upstream to downstream and drive more efficiency by tracking and optimizing movements across multiple modes of transport— pipeline, truck, rail, barge, and vessels.

**V****VAR**

Consolidate information from disparate sources, including C/ETRM, spreadsheets, and market data providers. Get insight into market risk and make more informed decisions and take necessary mitigation measures.

**Ri****Risk & Monitoring**

Define risk limit policies, analyse global risk across multiple portfolios and books. Track limit breaches and utilization.

**B****Basis Analysis**

View historical and forward movement of basis by commodity, location, and location group. Get alerts on major changes in basis, limit exposure by identifying opportunities and risks sooner. Simulate 'what-if' positions, and get visibility into the potential impact of various options on P&L.

**Ps****Power Spread Analysis**

Analyse electricity spreads and achieve the maximum profitability on power stations by producing power to meet forecasted demand and supply, while trading surplus capacity in wholesale trading market.

**P****Pre-Trade Analysis**

Generate prices and margins by identifying best trade routes and determining potential costs – movements, products and finance all included – with different units of measurement, currencies, weight conversions, and more.

44

Asset Classes

6

Continents

50+

Applications



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To learn about how Eka can add value to your operations.

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## About Eka Software Solutions

Eka Software Solutions is a global leader in providing digital solutions for Trading & Risk, Supply Chain Management and Financial Services driven by Cloud, Blockchain, Machine Learning and Analytics. The company's best-of-breed solutions serve the entire trading value chain across agriculture, energy, metals and mining and manufacturing markets.

Eka's Cloud Platform provides advanced analytics, one source of data and an automation engine, providing maximum flexibility and investment protection as business needs and market requirements change. Eka is committed to ensuring its 100+ clients can work from anywhere and collaborate across ecosystems within a secure and trusted environment.

For more information, visit [www.eka1.com](http://www.eka1.com) and follow us on [LinkedIn](#) and on [Twitter](#).