



Introduction

For more than three decades, Energy Components by Quorum Software (EC) has been the industry's flagship solution for production reporting, allocation, and hydrocarbon accounting. With 650 licenses installed 55 countries, EC manages a significant portion of the world's production of hydrocarbons, making it the global industry leader.

Today, our solution has been successfully adopted in all major oil and gas regions. With support for core business functions across the energy value chain, EC has evolved and advanced over 30 years in close collaboration with leading companies in the oil and gas industry. Today, more than 100 oil and gas companies, including all supermajors, use EC as an industry-standard solution.

Accumulating a wealth of experience over the years, EC has evolved as more knowledge has been captured and new functional areas have been added to the product suite. This is a natural consequence of our ambitious product strategy. From delivering regional production-based solutions in the North Sea to providing complete business solutions globally, EC has now developed into an end-to-end hydrocarbon management solution.











Stepping up to **Hydrocarbon Management**

Within the energy industry, there is a clear agenda and a variety of initiatives to increase the value derived from data. Overtaking oil as the world's most valuable resource, data is the driver for advanced analytics and decision support, helping energy companies avoid unplanned downtime and losses in productivity.

As EC holds the official record of all production data, Quorum Software is uniquely positioned to help its customers maximize the benefits that they can derive from it. Through continuous dialogue with our customers, we have worked hard to bring forward new initiatives to increase the value of this data store. Our collaboration has resulted in the addition of EC mobility, enhanced deferment and well testing functionality, improved visualization, and process automation.

Quorum Software offers hydrocarbon management modules to support its customers in their operational decisions, with a resulting increase in production, profitability, and operational excellence.



EC Production Optimization helped a Brazilian multinational oil and gas company to achieve a five percent increase in daily oil production, provided decision support to engineers, and created a platform for optimization and design of new FPSOs.



Solutions for the entire energy value chain

All operators need to keep records of extractions from the reservoirs, the amount consumed, re-injected, or disposed of, and the delivery and transport of oil and gas to buyers and other facilities. EC strengthens upstream and midstream businesses by offering fully integrated functionality that supports hydrocarbon accounting, integrated asset modeling, optimization, forecasting, and decision support.

EC is an integrated hydrocarbon management solution that supports the needs of all oil and gas operations. For each area, a full cycle from forecasting to accounting can be handled, allowing performance to be tracked against forecasts and targets at all levels. EC supports various businesses involved in the hydrocarbon value chain, such as:

- Offshore and onshore production
- Oil, condensate, LPG terminals
- Gas transport / pipeline operations
- LNG operations
- LNG terminals
- Gas plants

- Gas sales
- Revenue accounting
- Management of partner-operated assets
- Governmental hydrocarbon accounting



Product Suite

The EC product suite offers unprecedented support for the whole upstream and midstream value chain, with dedicated support for production operations, terminals, gas plants, LNG facilities, and more. Our strategy is to offer one integrated solution for the global energy industry. The portfolio consists of the following fully integrated solutions that share the same underlying database and platform.



EC helped a leading upstream oil and gas exploration, development, and production company in the middle east through short-term production optimization and decision support, resulting in an approximately ten percent increase in daily oil production.



Optimization and **Decision Support**

EC Upstream Management

EC Upstream Management contains components for well performance monitoring, well test intelligence, and short-term production optimization. Well performance monitoring detects if wells are not performing as expected, triggering notifications when unexpected events occur. Well test intelligence covers automatic detection of stable periods, accurate calculation of well test shrinkage factors and flowing composition, and automatic acceptance of well tests. Short-term production optimization provides functionality to optimize how the asset is operated on a daily basis by maximizing oil production and minimizing operational costs. EC Upstream Management provides its users a dedicated management dashboard to evaluate optimization results and scenarios.

EC Cargo Management

EC Cargo Management provides a solution for managing an optimized portfolio-wide Annual Delivery Program (ADP) and Short Delivery Schedule (SDS). It facilitates optimized robust plans contributing to increased profitability with a minimized need for third-party cargoes, vessel chartering, and optimized feedstock and send-out schedules. The EC Cargo Management module is a collection of tools that provides tailored workspace in EC. Its KPI-driven evaluation, efficient scenario management, and analysis provide tremendous value to our customers. Adding more weight to this offering are the EC optimization framework and its powerful visualization.

EC Pipeline Management

EC Pipeline Management provides a dedicated workspace to plan large and complex pipeline distribution networks efficiently. EC Pipeline Management facilitates optimized robust plans contributing to increased profitability, minimizing curtailment needs.

Asset-wide **Analysis**

EC Integrated Asset Modeling (IAM)

EC IAM allows oil and gas companies to graphically and computationally integrate models and optimize petroleum assets. Any third-party or in-house models, simulators, and data sources can be integrated to form a unified model spanning the value chain. EC IAM provides sensitivity assessment and optimization capabilities to define business opportunities dependent on complex cause-and-effect dependencies affecting the entire value chain. EC IAM is used to optimize field development plans, model how changes to existing infrastructure affect bottlenecks and asset performance, and improve long-term planning and reservoir recovery strategies.





Hydrocarbon **Accounting**

EC Production

EC Production covers the functionality required by upstream organizations for production management, allocation, and reporting. It is relevant both for owned and partner-operated assets.

EC Transport

EC Transport covers functionality employed when transporting hydrocarbons either through pipeline systems, trucks, or vessels. It is used by the party operating the transport system and shippers.

EC Sales

EC Sales supports the sales organization in selling and/or trading hydrocarbons, including complex gas sales contracts management. This is relevant both for owned and partner-operated assets.

EC Revenue

EC Revenue handles invoicing and controlling any data relevant for revenue recognition, including a two-way interface with financial accounting systems. It is relevant both for owned and partner-operated assets.



Oilfield **Chemistry**

EC Chemistry

EC Chemistry is a plug-in extending EC Production and EC Transport with tools for chemical management, flow assurance, and integrity management. EC Chemistry can automate data management and use smart indicators to provide information about system risks, status, and trends as a decision support tool. With available and relevant information, better predictive decisions can be made to reduce the cost of operation, risk of failures, downtime, and costly interventions.

EC Chemistry toolbox includes:

- Chemical quality, health, and safety information for desktop/mobile
- Chemical inventory management for chemical availability and demand planning
- Chemical usage and performance management for injections and batch treatments
- Laboratory and field analysis for use with performance tracking and risk scorecard

EC Environmental Management

EC Environmental Management extends EC Chemistry with tools for monitoring and reporting discharge and emissions related to oil and gas operations. It includes tracking chemical discharge and the discharge of harmful compounds to the environment, using release and distribution models.

EC Environmental Management includes emission tracking from production and operations with respect to both harmful substances and climate gases from operation required by regulatory authorities. With EC Environmental Management, it is possible to assess and optimize operations to find the balance between efficiency and environmental footprint.



Mobile **Apps**

Field Data Capture (FDC)

EC Field Data Capture (FDC) is a productivity tool designed for field operators. A field operator's job is to ensure optimal production of oil and gas from the field. It includes capturing meter readings and observations and reporting these back to the operations office. FDC is designed to assist the operator in capturing this information in the field and transferring this information back to the main EC installation for the operation.

The main objective of EC (Mobile) FDC is to provide an application that runs on hand-held devices to capture production data while in the field and transfer them to EC, when available. The solution enables local storage of required data to a hand-held device and provides data capture when offline.





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About Quorum Software

Quorum Software connects people and information across the energy value chain. Twenty years ago, we built the first software for gas plant accountants. Pipeline operators came next, followed by land administrators, pumpers, and planners. Since 1998, Quorum Software has helped thousands of energy workers with business workflows that optimize profitability and growth. Our vision for the future connects the global energy ecosystem through cloud-first software, data standards, and integration. The trusted source of decision-ready data for 1,800+companies, Quorum Software makes the essential connections that let us work better together in the connected energy workplace. For more information, visit quorumsoftware.com.

