



# Meeting project challenges now and in the future

EBOOK

Oil and gas industry

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# Challenges facing the oil and gas industry

According to Deloitte's O&G Industry Outlook, the oil and gas industry is at a pivotal moment—navigating the pressures of energy transition, market volatility and the need for technological modernization, all while delivering reliable returns.

**Volatile market dynamics**— Shifting geopolitical conditions, inflationary pressures and uncertain global demand make accurate forecasting and project agility more critical. Even with steady commodity prices, capital spending remains measured and focused on efficiency, predictability and return on investment over rapid expansion.

Meanwhile, **the rise of clean energy initiatives** reshape the project landscape. Companies now manage a mix of traditional and renewable projects, each with distinct regulatory, reporting and resource requirements. This diversification adds pressure on existing processes and increased complexity across portfolios that span new greenfield projects, upgrades and maintenance for extending the life of critical assets.

**Workforce limitations and knowledge gaps** (particularly in digital skills) add, further strain, limiting productivity and slowing execution. As project scopes evolve, legacy systems struggle to scale or adapt, leading to data silos, inconsistent reporting and limited visibility into overall project performance.

**For oil and gas organizations to thrive, they must embrace smarter project execution strategies**, tighter governance and tools that unify fragmented systems. Gaining real-time visibility into project and portfolio performance, streamlining resource management and enabling more accurate forecasting prove essential. Success will require finding new ways to improve efficiency while continuing to invest in projects that will meet demand without sacrificing performance.



# The road forward

How companies respond to these pressures will define their trajectory.

Meeting rising energy demand amid volatility and workforce limitations requires a shift in approach. It's no longer enough to focus on individual projects in isolation. Organizations need the ability to prioritize effectively and to see performance clearly, across the full portfolio. High-performing companies turn to project portfolio management (PPM) solutions to bring structure and consistency to decision making.

With standardized processes for scoring projects, they can align projects to strategic priorities and act faster with better data.

Improving efficiency and return on investment remains central to staying competitive. With the right tools in place, organizations gain the agility to make proactive decisions that directly impact project and overall business performance.

To remain competitive, organizations need a complete view of their project portfolio, grounded in proven, measurable processes and clear key performance indicators (KPIs). This is impossible to do when working with siloed data and disconnected tools.

Instead, leading oil and gas organizations establish a single source of truth to seamlessly integrate key processes and data across the full project lifecycle. This drives better business outcomes by providing better visibility into resource use, stronger alignment to strategy and more effective measurement of changes, risks and issues. This is where an enterprise project performance (EPP) platform comes into play.

EPP solutions bring together strategic planning and day-to-day execution, integrating PPM with operational controls that shape project outcomes. By consolidating systems including enterprise resource planning (ERP) platforms, organizations gain a more consistent, holistic approach to managing projects across the enterprise. The result? The added visibility provides more governance and control, while creating a foundation for automating key business processes and ensuring best practices across the business at scale.



# Introducing Octave Sequence Enterprise (formerly EcoSys)

As oil and gas portfolios diversify, tracking performance at both the project and portfolio level becomes more complex and more critical.

Octave's enterprise project performance (EPP) platform, Sequence Enterprise, brings that clarity. Trusted by the oil and gas industry for nearly 20 years, Sequence Enterprise provides a centralized hub for project and opportunity data, connecting processes across all projects.

With a single, unified view of performance, teams can make proactive decisions based on a clear, accurate picture of the business.

Built on Microsoft Azure, Sequence Enterprise combines scalability with speed to support advanced analytics, machine learning (ML), artificial intelligence (AI) and automation capabilities. The result is faster access to reliable insights and the flexibility to adapt as business needs evolve.



# How Sequence Enterprise meets project challenges

Typical project challenges	How Sequence Enterprise solves them
Siloed data limits collaboration and hurts overall efficiency	Easily integrates with other data sources (including ERP, scheduling solutions and many more)
Inflexible software won't support new work processes	Out-of-the-box processes support the full project and portfolio lifecycle while allowing organizations to tailor workflows and dashboards to their evolving needs.
Manual, time-consuming reporting processes	Easily apply standards and best practices while automating reporting and insights
Inaccurate, out-of-date data leads to an inability to make informed decisions confidently	Consolidates data points and supports offline/mobile capabilities, increasing progress and forecasting accuracy and timelines
Multiple systems require costly and difficult maintenance and management	Scalability and flexibility for any number of projects of any size or type
Lack of governance and control	Add business processes and standardize as you grow and evolve

# Deliver the right projects, on time and on budget

By building a single, connected project ecosystem, Sequence Enterprise provides a consolidated, enterprise-wide view of resources, giving executives and project teams the clarity to make decisions that drive better performance.

With less time spent on time-consuming, manual tasks, teams can focus on what matters most. Executives gain clear, concise visibility into the project's health, direction and forecasted results.

## **Make informed decisions that improve project performance**

- Apply built-in best practices from industry leaders to drive consistency in planning and execution
- Eliminate low-value activities by up to 60%
- Monitor progress in real time with visibility into performance and measurable KPIs
- Consolidate critical project data and surface issues before they escalate
- Reduce reliance on spreadsheets, disconnected systems and manual processes

## **Execute strategically on long-term goals**

- Align early investment decisions to the right projects
- Identify trends and success factors and standardize them across the business
- Optimize financial, human and capital resources using enterprise-wide knowledge
- Use predictability metrics to reinforce behaviors that drive consistent result



# Customer use cases



**A leading integrated downstream energy company** selected Sequence Enterprise to streamline project management processes from idea to asset. By standardizing processes, strengthening governance and applying controls across the entire project lifecycle, they improved staff efficiency and productivity. Managing projects at seven refineries in a single system gave project leaders a complete view at the plant level or across the portfolio. The result? A 12% reduction in project costs and 22% faster project schedules.



**A global, multi-energy company** set out to improve efficiency after project teams were often spending up to 60% of their time on low value tasks such as generating reports and managing data. By adopting Sequence Enterprise as a single source of truth, teams became more proactive and forward-looking. Reporting accelerated, enabling faster issue mitigation, minimizing risk and optimizing cost and schedule performance.



**A large, multinational O&G company** selected Sequence Enterprise to help minimize downtime during turnaround projects after internal tools fell short. By consolidating data and eliminating manual reporting, they created a unified dashboard for all relevant information. Turnaround projects are now easily and accurately reported on an hourly basis, surfacing critical insights quickly to shorten project duration.

# Ready to revolutionize your oil & gas projects with Sequence Enterprise?

[Learn More](#)

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## About Octave

Octave is a leader in enterprise software, turning data into decisive action and intelligence into your edge. Our software solves for and simplifies complexity, from the design and build to operations and protection of people, property and assets – for any scope, at any scale. For decades, we've partnered with customers to sharpen performance, elevate efficiency and amplify results. From factory floors to entire cities, our solutions are tuned to scale up what's possible from day one onward.

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