



Is your oil and gas business **people** ready?

Oil and Gas

Microsoft Oil and Gas Industry Overview

Challenges in the Oil and Gas industry are continually evolving and the stakes are getting higher. Global economic uncertainty may be tempering earlier forecasts for worldwide oil demand to double by 2030 (according to Cambridge Energy Research Associates, Inc. [CERA®]), but that doesn't alleviate the pressure to improve operational efficiency and overall performance.

Fundamental long-term challenges to replace and grow reserves, manage declining assets, and improve return on capital employed (ROCE) are not easily solved—especially given the worker and experience shortages that are expected when more than half of oil and gas professionals retire in the next 10 years.

What's more, competing political and economic pressures are complicating regulations and access to new reserves. New imperatives for sustainability and energy efficiency create operating challenges and increase costs. Alternative fuels and technology are disrupting global markets.

Microsoft has partnered with leading industry solution providers worldwide to address these challenges, delivering tightly integrated solutions that empower people in the Oil and Gas industry to make the most of business opportunities and growth.

Our combined solutions address industry-specific challenges in upstream operations, refining and petrochemical operations, capital project management, and desktop integration of high-performance computing petro-technical applications. These solutions are already helping companies throughout the industry value chain—from integrated operators, national oil companies, and independents, to service companies, refiners, and petrochemical manufacturers, as well as suppliers, distributors, and retailers.

By giving people the right tools and information, companies in the Oil and Gas industry can maximize their success as people-ready businesses. Software is the keystone to empowering your people—it helps them harness information so they can convert data into insight, transform ideas into action, and turn change into opportunity. Role-based productivity, a key component of Microsoft solutions, provides the right information to the right people at the right time.

Industry Solutions

Oil and Gas industry solutions from Microsoft and its partners are based on the world's most cost-effective, functionally rich information technology platform. It helps create a more secure computing experience, and the platform ensures that our solutions are interoperable with a variety of systems to help people collaborate locally and globally across traditional data boundaries and gain streamlined access to information. These solutions amplify the efforts of people, creating winning relationships with customers, partners, and regulators.

Upstream Operations

Global energy demand will continue to grow significantly during a critical shortage of skilled exploration and production (E&P) workers. Meanwhile, digital oilfield technologies offer volumes of raw data to support real-time decisions. Microsoft and its partners deliver tightly integrated solutions along the entire upstream value chain that address these changing operational and business requirements. Together, we help your people reliably and securely manage data, collaborate across boundaries, and achieve faster time to insight. The result is better decision making throughout your organization, helping you control costs, accelerate time to first flow, and improve recovery rates.

Refining and Petrochemical Operations

New economic and operating pressures are increasing the pressure on refiners and petrochemical manufacturers to reduce margins that are already tight. With increased visibility into operations, manufacturers can gain greater control over cost and improve efficiencies of scale. Microsoft and its partners deliver business and technology solutions that enhance role-based productivity by gathering relevant data from enterprise and plant systems and by delivering it to the people who need it, in real time, to improve insights, decision making, and ultimately performance.

Capital Project Management

The Oil and Gas industry is a risky capital-intensive business. Companies are working hard to execute projects on a global scale to find, produce and deliver hydrocarbons. No matter the economic conditions, it is critical for organizations to efficiently manage their capitals projects to control expenditure, manage priorities and resources, and get assets productive as quickly as possible. It is also important to efficiently and safely maintain and upgrade these assets throughout their lifecycle. Overall corporate success hinges on the collective successes of all the individual projects as well as managing the portfolio of projects and advancing those that best align with corporate objectives. Enterprise project management solutions from Microsoft and its partners intelligently manage the entire investment life cycle, from strategic portfolio decisions to managing work, providing real-time visibility to everyone in your organization.

High-Performance Computing

Engineers and scientists use high-performance computing applications to create advanced analytical models. Better models lead to more accurate predictions, accelerating time to oil and improving business results. But when administrative and IT complexity limit user access to high-performance computing applications—or an increasingly mobile work force has no access—it delays oil and gas workers from solving domain challenges and developing optimal solutions. Microsoft and its industry partners deliver solutions that seamlessly integrate high-performance computing applications with the E&P workflow and provide secure, reliable, remote, mobile access—making high-performance computing available to everyone who needs it, anytime, anywhere.

What's more, Microsoft and its partners offer joint solutions addressing other challenges such as innovation process management, supply chain visibility and collaboration, oil and gas retail and marketing operations, sales and marketing effectiveness, and energy trading. Combined, these solutions can transform oil and gas workflows and help businesses meet the energy challenges of the twenty-first century.

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About the Microsoft Worldwide Oil and Gas Group

Together with our partners, Microsoft delivers enterprise-class solutions that amplify the impact of people and help companies meet Oil and Gas industry challenges. By putting the right tools in their hands, oil and gas workers can efficiently analyze volumes of data, and they can communicate and collaborate with colleagues, vendors, and partners around the world to make better decisions faster.

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