

SIEMENS



PROCESS INSTRUMENTATION

Protect assets and remain competitive with digital transformation

www.usa.siemens.com/oilandgas

The United States may lead the world in oil and gas production, but production cost still remains important. However, the risk of volatility in the oil and gas market remains due to the political environment and shifts in consumer demand. Despite the rise in alternative and renewable energy sources, natural gas represented 32% of electricity generation in 2017. Alternative fuel vehicles have become more popular, but approximately 88% of the light vehicle market in the US remains gasoline or diesel powered. Oil and gas remains extremely important to meeting energy demands in the US and we must take steps to protect our energy future. Siemens offers

secure and robust digital solutions to help you remain competitive in this uncertain and quickly changing environment.

Improve time-to-market to meet market demand.

The ability to quickly tailor operations has become more crucial to achieve a competitive advantage. We provide a risk-free simulation environment for companies to test operations before commissioning through SIMIT, improving time-to-market. You can also efficiently and quickly share real-time operations data with authorized users and shorten project timelines with engineering tools like COMOS. Siemens has



Plant Engineering Software (COMOS)



Siemens portfolio of analyzers and gas chromatographs

the tools you need to establish a digital twin and minimize uncertainty while maximizing profitability in operations.

Cut costs and maximize operational efficiency.

According to the consulting firm McKinsey & Company, adopting digitalization can cut capital expenditure by 20%, with cuts to upstream operating costs of 3-5% and 1-3% in downstream. Our open cloud-based IIoT (Industrial Internet of Things) platform, MindSphere, enables users to extract optimal value from operations with applications proving predictive maintenance, prescriptive maintenance and data analytics capabilities. You can select from powerful apps designed by Siemens or design your own apps with MindSphere to generate actionable insights using your operation's data. No matter how you decide to setup your cloud environment with Siemens, we maintain the highest security standards from the communications

equipment to the software used on the network so you can enjoy the benefits of increased operational efficiency in a safe and secure environment.

Stay ahead of environmental regulations with Siemens analytical products.

Growing concern over environmental pollutants has led to increased regulations for refineries. Siemens has solutions that will not only help refineries comply with regulations but also maintain the quality of their product. Our portfolio of analyzers and gas chromatographs produces accurate measurements for your processes while Siemens Analyzer System Monitoring (ASM) provides a secure, centralized platform to monitor all of your analytical instrumentation and help manage KPIs. ASM can be integrated with MindSphere to enable greater connectivity among multiple sites in the enterprise. With Siemens, you will be able to maintain compliance with government regulations and

securely manage production quality.

Partner with Siemens to build your digital enterprise.

Wherever you are on the path to digital transformation, we will build a personalized roadmap for your company to help tackle the challenges of today and the future. We can provide comprehensive solutions with your company's specific needs in mind, and our digitalization consultants are ready to identify digital solutions to enhance your competitive advantage. Partner with us today and begin building your digital enterprise.

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