

INFOSYS OIL
AND GAS
PRACTICE



Legacy systems and technologies hamper production at unconventional oil and gas basins and inhibit productivity at conventional energy reserves. The steep cost of exploration, aging workforce and volatile price index demand process reengineering, implementation of new and emerging technologies, and business transformation at oil and gas enterprises.

The Infosys Oil and Gas practice adopts an enterprise approach and implements next-generation IT solutions to drive superior business results. We offer visibility across your enterprise and supply chain to capitalize on business opportunities and mitigate risks.

We partner with two of the top five integrated oil and gas companies, three of the top four oilfield services providers, and five of the top 10 independent upstream enterprises across the oil and gas landscape.



Exploration offerings

Reservoir Engineering	Drilling Operations Management	Digital Oil Field
<i>Predict reservoir performance, enhance recovery, minimize downtime, and ensure safety</i>	<i>Improve oil well planning, ensure data quality and data integrity, and mitigate risks</i>	<i>Maintain lean operations, streamline event and field management, and minimize the carbon footprint</i>
Reservoir characterization	Business analysis	Data integration
Reservoir monitoring	Data capture and transfer	Application integration
Reservoir modeling	Engineering design	Business process management
Reservoir simulation	Reporting	Front-end integration

Upstream Data Management	Data Loading and Quality Control
<i>Create a 'single version of the truth'</i>	<i>Validate subsurface data at multiple levels</i>
Data strategy	Borehole data
Product customization and implementation	Drilling data
Data transfer, validation and integration	Seismic data
Business intelligence, data federation and data warehousing	GIS data





Production offerings

Production Optimization	Production Surveillance	Hydrocarbon Accounting and Production Reporting
<i>Monitor asset performance, maintain consistent production, and achieve operational excellence</i>	<i>Detect deviations in real time and accelerate response for exception / condition / event management</i>	<i>Manage unscheduled deferrals, implement allocation agreements, and comply with regulations</i>
Modeling	Monitor assets and costs	Field data management
Production engineering	Review events and anomalies	Production and transportation management
Simulation enhancement	Plan remediation action	Emissions management
Data management	Analyze solution effectiveness	Revenue accounting

Petrotechnical Support and Integration	GIS Solutions
<i>Consolidate the application portfolio, boost productivity and ensure business continuity</i>	<i>Extract value from location-based data, evaluate licenses, and optimize the drilling configuration</i>
Geology and geophysics applications	Consulting
Drilling and production systems	Application development & integration
Engineering products	Geospatial data management
Modeling software	Application maintenance & support

Midstream offerings

Pipeline Scheduling and Optimization	Pipeline Integrity Management	Integrated Asset Management	Energy Trading and Risk Management
<i>Ensure smooth pipeline operations, and strike a balance between demand and supply</i>	<i>Rationalize pipeline maintenance cost, reduce insurance liability, and safeguard assets</i>	<i>Reduce Non-Productive Time (NPT), improve productivity and maximize return on assets</i>	<i>Accelerate trade execution, reduce manual intervention and create an audit trail</i>
Consulting	Application portfolio management	IT infrastructure management	Front office operations
SCADA services	Inspection and risk analysis	Asset maintenance	Middle office systems
GIS services	Data visualization	Performance improvement	Back office management
Modeling and simulation	Field force automation and asset management	Predictive analytics	Corporate functions

Downstream offerings

Integrated Refinery Information System	Transportation and Logistics	Point-of-Sale Systems and Loyalty Card Management
<i>Increase visibility into business processes and transform into a data enterprise</i>	<i>Address challenges in supply chain operations and capitalize on robust demand</i>	<i>Sense and respond to demand, improve customer adoption and drive growth as well as profitability</i>
Front End Engineering Design (FEED)	Consulting	Retail management
IT consulting and solution design	Package services	POS technical support
Application management	Product maintenance and support	Customer experience management

Corporate offerings

Talent and Learning Management	Enterprise Content & Document Management	Environment, Health and Safety Management	Oracle Preconfigured Solutions
<i>Build a talent pipeline, deepen employee engagement, and monitor the effectiveness of training</i>	<i>Integrate legacy systems with live data feeds, and distill structured as well as unstructured data</i>	<i>Ensure safety, reinforce brand equity and protect the environment</i>	<i>Improve planning and execution of engineering, procurement and construction projects</i>
Consulting	Taxonomy consulting and strategy implementation	Energy and carbon management	Project accounting and control
Talent development	Productivity enhancement	Industrial safety	Revenue and cost management
Knowledge management	Information portals and business intelligence	Risk management	Supply chain management
Learning transformation programs	Infrastructure management	Sustainability reporting	Product management

The Infosys Oil and Gas Ecosystem

- Our team of 3,500+ domain and technology experts has cumulative experience of 150+ person years
- Centers of Excellence (CoEs) in exploration and production, refining and marketing, energy trading and risk management, geographic information systems, hydrocarbon accounting, and alternative energy
- Proprietary IT products, cloud-based platforms, evaluation frameworks, process accelerators, collaboration tools, Value Realization Method (VRM™), and repository of best practices
- Our team provides multi-lingual support across applications and functions, including customer experience management platforms
- Knowledge management systems for training, capability building and domain certifications
- Rich experience in regulations such as Agency for the Cooperation of Energy Regulators (ACER), European Union; National Energy Board (NEB), Canada; Pipeline and Hazardous Materials Safety Administration (PHMSA), USA; and Federal Energy Regulatory Commission (FERC), USA
- Partnerships with oil and gas data management product companies, petrotechnical system vendors, data historians, GIS product vendors, and simulation software companies
- Alliances with technology product enterprises – Microsoft (Gold Certified Partner), SAP (Global Services Partner), and Oracle (Diamond Partner)
- Collaboration with oil and gas industry bodies such as Professional Petroleum Data Management (PPDM) Association, OpenSpirit, Energistics, Indian School of Petroleum and Energy, and the Society of Petroleum Engineers (SPE)
- Partnerships with learning institutions such as the University of Petroleum and Energy Studies, Dehradun; Pandit Deendayal Petroleum University, Gandhinagar; and International Human Resources Development Corporation, Boston



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