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# Vision:

*To be a global market leader in Intelligent Support Systems for the Oil and Gas Industry*

# Mission:

*To nurture a talented team of professionals to provide best-in class consulting and implementation services and improve the profitability of our valued customers across the globe*

# Our core areas of service:

At iOG Solutions, we work with 4 arms in both the Upstream and Downstream domains. “**Implementation**” of advanced software technologies in the oil and gas domains is the core competency of iOG solutions.

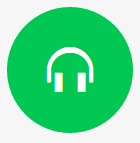


**iOGConsult**

It’s the place to come to if you are looking for extensive or specific consultation with domain experts in the O & G sector along with associated software expertise. iOG’s team of consultants has strong domain knowledge in upstream and downstream O & G industry and all leading software solutions for the domain.

**iOGImplement**

It is our specialized division looking at all your implementation requirements across the entire chain of operations. Turnkey implementation using state-of-the-art software technological solutions is our forte.



**Brand Muscles**

**iOGStudy**

A specialized service provided by iOG, leveraging state of the art software solutions and our expertise in utilizing these. Our team of consultants with strong domain knowledge in upstream and downstream O & G industry and leading software solutions conduct specialized studies to deliver best-of-breed processes and practices to clients. This study depends on the need expressed by the client and is different from any consultancy services we provide.



**iOGTrain**

The training and support division of iOG Solutions offers comprehensive support to upgrade the skills of users in accordance with the latest deployments of software technologies , both onsite and offsite. The training and support services also extend to already existing technologies with the client and their associated updates.



# Upstream:

The upstream segment of Oil & Gas industry, also known as the exploration and production (E&P), encompasses activities related to prospecting for underground or underwater oil and gas fields, drilling of exploratory and appraisal wells, analysis of these wells for production and economic viability, and the operation of viable wells to bring crude oil and raw natural gas to the surface.

Each of these activities involves the amalgamation of a wide variety of technical expertise and domain-specific activities and iOG Solutions strives to provide the world class services to its clients in their search for economic hydrocarbons.

Our major service offerings in Upstream are:

# Geology & Geophysics – Looking beyond the Surface

Exploration is focused on understanding subsurface, discovering and targeting hydrocarbon rich zones. We help our clients in planning a broad range of G&G surveys for acquiring specific information to map the subsurface’ s complexities, interpret the retrieved Geological, Geophysical and Petro-physical data and generate a holistic 3D subsurface model (Earth Model). This enables clients in pinpointing the most accessible and economic hydrocarbon ‘traps’ thus giving a direction for planning further activities in accessing and exploiting these hydrocarbon sources.

# Production Management – Extracting Value

iOG Solutions offers its clients a complete range of Production Management services. These include design completion and surface systems management, selection and design of the artificial lift, design and implementation of production allocation and accounting systems, monitoring production volumes and other parameters in real-time, calculating and reporting KPIs, optimization of oil/gas production rates as well as in predicting future performance. It also includes the diagnosis of productivity problems and evaluation of stimulation treatments.

# Reservoir Management - Tapping into the depths

Oil and gas reservoir is the subsurface pool with oil and gas in the holes inside porous or fractured rock formations.  iOG Solutions help in characterizing all substantial reservoir aspects, predict and study the dynamic flow of fluids and gaining deeper insights into reservoir structure, estimate and extractable hydrocarbon reserves. This enables clients in selecting and designing the best recovery methods including water flooding, hydraulic fracturing, and other EOR processes and then evaluates multiple field options for field development.

# Data Management Services - From Data to Information

Upstream activities are highly data intensive and generate/require huge amounts of complex data that requires continuous monitoring and cleansing. Our team can help E & P enterprises in automating data acquisition and monitoring processes, cleansing and formatting of acquired data into Oil and Gas Industry standard Data Models.

Our experts can help integrate the incoming disparate data streams from multiple sources like Wells, Drilling, Logs, production, seismic, and surface facilities into a centralized repository, thus providing a single version of the truth to the concerned departments. iOG Solutions can also, helps its clients make the most of their data, by making it easily interpretable using advanced BI, visualization, and analytics.

# Well & Drilling Services – Building Doorways

To address the uncertainty in the G & G, exploratory and appraisal well are drilled to ascertain the prospect’s viability and economics. The upstream segment essentially revolves around wells: from their locations, depths, sizes & numbers, construction and completion, operation, monitoring, and workovers; to their eventual decommissioning. iOG’s Well and Drilling team guide its clients through all the well related activities with a wide range of advanced services like Well Modeling, Logging, Performance Monitoring & Analysis, Integrity assessment, and Management Systems.

Drilling accounts for the major part of upstream operational economics. iOG Solutions’ drilling experts work closely with the client and drilling contractor to design, plan, monitor and guide drilling operations. Our services include setting up a robust data management system for managing the vast stream of data generated from complex well and drilling activities.

# Downstream:

The Downstream segment of the Oil and gas industry entails a series of activities that see the “Crude-oil” pass through an interesting journey that begins with lifting of crude oil from the supplier, transportation to the refinery tanks, transforming the crude oil feedstock to finished products through a chain of highly energy intensive treatment operations and finally getting marketed through Direct and Retail modes to reach the end-user.

Each of these activities involves the application of a high quality domain and technical expertise and iOG Solutions has always proven its mettle in providing world class services to its clients to enhance their profitability manifold.

Our major service offerings in Downstream are:

# Supply Chain Management (SCM): Mapping the capability to the demand

iOG solutions with its in-depth knowledge in SCM best practices can help its clients by analyzing the gaps in the existing and advice on the desired business processes and the cross-functional architecture required to be in place in the core areas of Planning, Scheduling, and Supply-Distribution. Our experts will then implement cutting edge technology and tools in each of these core areas and further integrate the individual models to enable seamless data flow and generate a holistic model of the entire Downstream Supply Chain with end-to-end visibility and agility to foresee operational and market disruptions.

# ETRM & Pricing tool application: Foster real-time vigilance

ETRM & Pricing tool is a fairly new functional arena in the downstream vertical whose adoption to current day O& G business has become quintessential owing to the growing volatility in the oil markets. iOG Solutions with its expertise tied with strong work experience with all major solutions available in this area can help our clients in identifying and implementing the apt tool that perfectly suits the business needs and organizational goals of our clients. Our team has extensive experience in implementation of new trading scenarios, Credit, Risk and Counterparties management and in devising Effective Straight-Through-Process (STP) for Front, Middle & Back Office operations.

# Manufacturing Execution Systems (MES): Drive Operational Excellence

Owing to the volume of data handled and the complexity of operations in downstream operations, it often becomes cumbersome to Manage-Monitor-Measure the performance across the value chain. Manufacturing Execution Systems offer useful handles to process raw data to a reliable piece of information which completely depict the actual operating scenario on a day-to-day and real-time basis. iOG’s MES team guide it’s clients through all the related activities with a wide range of advanced services like Production accounting, Operator Logbook, Oil Movement, Real-time Data historian, and Laboratory Information Management Systems. We offer best-in class consulting, implementation and training services to our clients to ensure that they reap the full benefits of these solutions by timely execution of right strategies.

# APC & Base Control Loop Tuning: Moving process towards lesser variability

iOG Solutions offers its clients the complete range of APC & Base Control Loop Tuning services needed to address plant design, regulatory control, identification of profit improvement, commissioning, training, and post-audit assessments. APC and Base Loop tuning enable users to have better control over process parameters to reduce variability and optimize processes close to set constraints. We use our domain expertise in this area to evaluate existing plant automation performance, perform a benefits analysis to define and quantify expected economic improvements. Our skills in loop tuning help you identify critical interacting and oscillating control loops and help adapt advanced regulatory control strategies to move the process closer to the set constraints.

# Simulation and Modeling: For better insights into design and operation

Process simulation studies enable the asset owners and the system designers to gain a better insight into the design and operation of their facilities to see how changes in equipment specifications, scheduling, downtime, and maintenance can affect a process throughout the duration of its life cycle. Our Steady-state simulation experts, equipped with their strong domain knowledge can help our clients in Model building, Process optimization and de-bottlenecking studies during the FEED stage. iOG Solutions can also perform start-up and shut-down studies, kinetic modeling and control scheme design and validation as a part of our Dynamic simulation services. Our experts render best-in class training in modification/maintenance of dynamic/steady state simulation models and development of user defined modules on various simulation platforms.

# Energy Management: Optimize consumption to boost profitability

In recent times, there seems to be upward pressure on the overall energy intensity for refining. We at iOG solutions help you adopt a sustained approach to energy efficiency supported by integrated processes and managed by leading edge process optimization software to have the ability to control and significantly reduce energy expenditures. We help our clients develop energy benchmarks, implement efficient energy management systems, identify and introduce best management practices related to power and heat generation and enforce optimal use of Energy Balance Tools and reconciled data for monitoring Energy KPIs.

