



# CONSULTING AND ENGINEERING SERVICES





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PetroDIAC Consulting and Engineering services spans throughout the asset lifecycle. We specialise in the below set of services as Owner Technical Adviser “OTA” as well as end-to-end services.

## Operational Excellence Programs

Program Target to achieve top quartile class performance through alignment of People, Process and Technology and manage it via SMART KPIs that ensure a safe, reliable and profitable production operation.

- Business Process Management - BPM
- Production Optimization - POM
- Regulatory Compliance & Safety - RCM
- Reliability Integrity Management - RIM
- Quality Management - QOM
- Inventory Management - IOM
- Human Capital Management

## Startup Readiness Programs

It is not only about a brand new facility with the latest technology, but also, a well trained and developed new workforce. Implement new work processes, systems, best practices and establish new supply chains.

- Capacity Planning -
- Operational Readiness Planning -
- Life-Cycle Design Support -
- Maintenance Readiness -
- Supply Chain Readiness -
- Organizational Readiness -
- Vertical Launch -
- Owner's Risk and Readiness Reviews -



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## Capital Projects Lifecycle Support and Owner Technical Advisor

Our infrastructure and capital projects professionals have practical experience in nearly every aspect of the capital projects lifecycle shown.

- Strategy and Planning
- Financing and Procurement
- Project Execution
- Operations and Maintenance
- Asset Recycling
- Asset Decommissioning

## Value Chain Optimization

PetroDIAC can execute a Value Chain Optimization studies, which will improve the alignment between the supply (crude-slate or feedstock mix), the demand (product-slate) and the capabilities and constraints of the installation and the infrastructure.

- Performance Assessments -
- Design -
- Capacity Management -
- Strategy -
- Planning and Control -
- Optimizing Logistics with Big Data -



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## Margin Improvement Programs

- Understanding cost base
- Addressing refinery maintenance and refinery availability issues
- Improve refinery utilization and production
- Supply chain optimization
- Improve refinery competence management
- Yield Improvement
- Production Optimization
- Energy Management
- Maximize Throughput

## Business Continuity Risk Assessment

A proper risk assessment is a core element behind the execution of successful risk management and the development of a comprehensive business continuity plan.

- Vulnerability assessment -
- Power assessment -
- Hazards and Risk assessment -
- Disaster recovery assessment -
- Fire safety assessment -
- Security and alarm assessment -
- Environment assessment -



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## Operational Support Services

Our experienced staff is able to accommodate operational needs from site negotiations to damage settlements.

- Project Management
- Negotiations, Abstracting and Title
- Infrastructure Acquisition
- Surface Use Agreement Negotiations
- Site Release Settlement, Damages Settlements and Payments
- Seismic Operations Support
- Construction / Reclamation Support
- Permitting and Regulatory Compliance
- GPS data collection and GIS – Mapping

## Conceptual Design, Pre-FEED and FEED

PetroDIAC offers knowhow for a wide range of processes in the Oil and Energy industry and carries out PRE-FEED and FEED engineering together with detailed engineering support for licensed processes.

- Conceptual Designs -
- Banable Feasibility Studies -
- Front-End Engineering Design (FEED) -
- Process Simulation and Optimization -
- HSE Services -
- Operational Support Services -
- Commissioning Service -



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## Process Design and Optimization Consultancy

PetroDIAC offers advanced oilfield optimization technology, expert services and implementation.

- Oil and Gas Upstream
- Gas Processing
- Downstream Refining and Petrochemicals
- Water and Waste-Water
- Pharmaceuticals
- Skid Mounted Packages
- Process Equip. Manufacturers

## Quality, Health, Safety and Environment

- Reliability, Availability and Maintenance Best Practices -
- Design of Maintenance Management Systems and Supervise Delivery -
- Design Reviews, Validation and Technical Audits -
- Team Leaders for Risk Assessment, HAZOP, HAZID, FMECA, FMEA, SIL sessions -
- Quantitative and Qualitative Risk Assessments -
- Technical Design Guides for Safety Systems and HIPPS -
- Safety Strategy and Safety Classifications -
- Training of Operations Management, Design Teams and Operators -
- Safety and Environment Compliance Strategy -
- Operability and Maintainability Assessments -





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## Program and Project Management

Our projects are managed and executed by experienced senior staff well-versed in handling large-scale oil and gas projects.

- Design Program Management Structure.
- Project Masterplan.
- Job profiling and capability assessments.
- Project organization structure.
- Change and interface Management (Internal and External)
- Full program management or rescue project team deployment.
- Mentorship and training for program managers.

## Decision Support Systems Design

PetroDIAC Decision Support System (DSS) improves operational efficiency and business performance by enhancing the ability of stakeholders to make faster, smarter decisions.

- Positioning for sustainable growth -
- Identification and design of alternatives -
- Reducing or eliminating the cost of wrong decisions -



**Operational Excellence Consultanting Services  
And Solutions Provider**

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