



**CONSULTING AND
ENGINEERING
SERVICES**



CONSULTING AND ENGINEERING SERVICES

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 -

A black and white photograph of a business meeting. Several people are seated around a table, looking at documents and a tablet. One person is pointing at a document. The scene is dimly lit, with the focus on the hands and documents.

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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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