PETROLEUM

PALACE GROUP

WELCOME TO PETROLEUM PALACE GROUP

About Us

Petroleum Palace Group is an environmental company, set to provide services for oil and gas companies. Our core expertise is the treatment of industrial, drilling and hazardous wastes.

Rather, the law requires to minimize pollutions in an environmentally friendly way or to remove them completely. Recyclables are to be recovered in the sense of sustainable resource management and to be supplied back in to the recycling lo op.

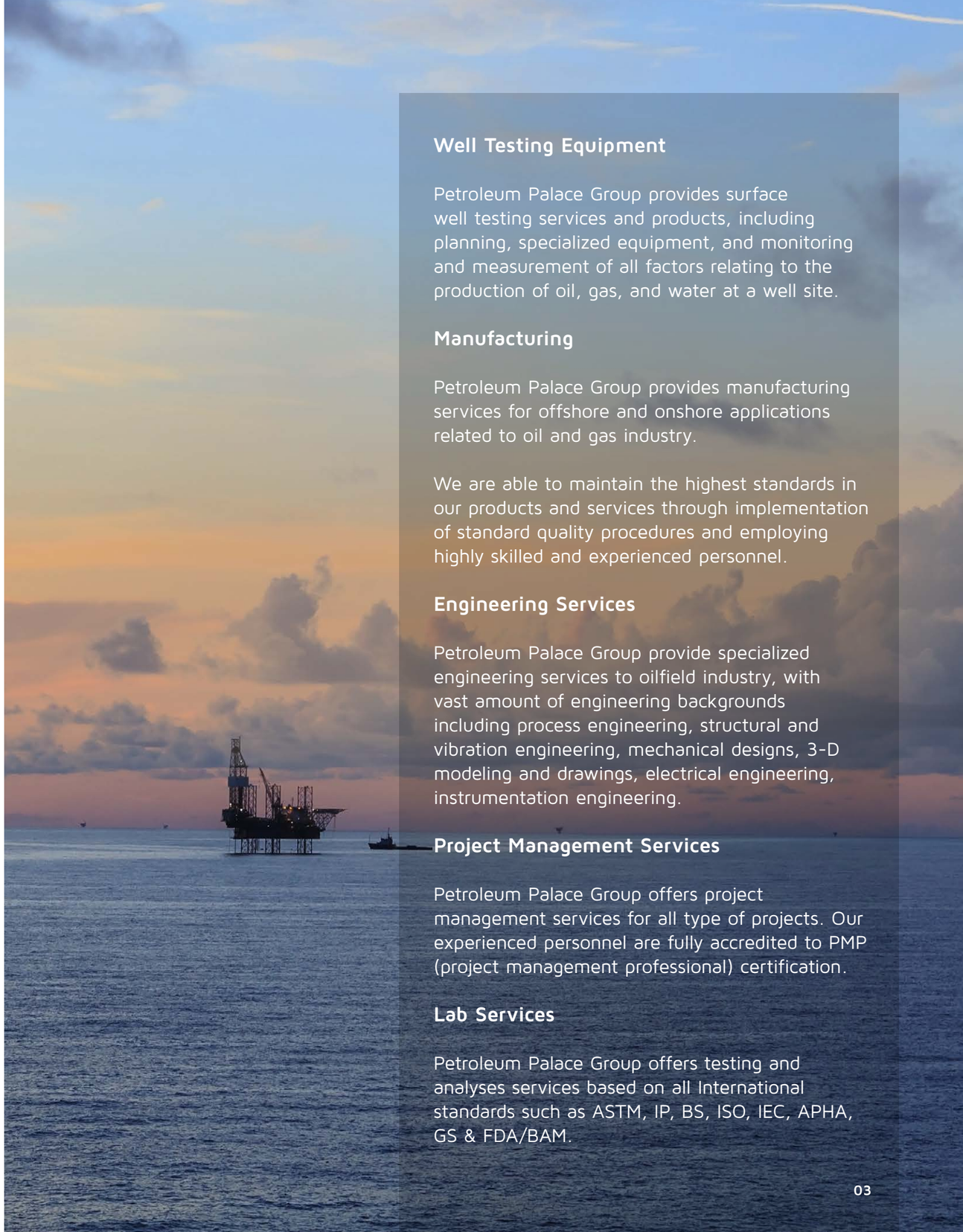
Petroleum Palace Group technologies will accompany you on this path. We develop a customized approach to treat your industrial, drilling and hazardous waste. We are focusing on the economic feasibility, the environmental compatibility and sustainability of the concept.

Petroleum Palace Group offers state of art thermal desorption technology designed to reduce the amount of produced waste at the source, recover valuable base oil and prepare treated solids for safe disposal. Technology is capable of producing dry, clean solids with less than 1% Total Petroleum Hydrocarbon (TPH) content.

In addition to waste management services our company provides other industry related services:

Water Management

Palace Group Petroleum offers portable and containerized technologies that remove low gravity solids (LGS) that could seriously degrade performance of water base drilling fluids. Dewatering systems eliminate need for costly dilution to maintain density and rheological properties, preserving water, reducing waste volumes and costs.



Well Testing Equipment

Petroleum Palace Group provides surface well testing services and products, including planning, specialized equipment, and monitoring and measurement of all factors relating to the production of oil, gas, and water at a well site.

Manufacturing

Petroleum Palace Group provides manufacturing services for offshore and onshore applications related to oil and gas industry.

We are able to maintain the highest standards in our products and services through implementation of standard quality procedures and employing highly skilled and experienced personnel.

Engineering Services

Petroleum Palace Group provide specialized engineering services to oilfield industry, with vast amount of engineering backgrounds including process engineering, structural and vibration engineering, mechanical designs, 3-D modeling and drawings, electrical engineering, instrumentation engineering.

Project Management Services

Petroleum Palace Group offers project management services for all type of projects. Our experienced personnel are fully accredited to PMP (project management professional) certification.

Lab Services

Petroleum Palace Group offers testing and analyses services based on all International standards such as ASTM, IP, BS, ISO, IEC, APHA, GS & FDA/BAM.

01 | Drilling & Industrial Waste Management

The treatment of industrial, drilling and hazardous waste or the rehabilitation of contaminated and abandoned drilling sites or other industry sites is increasing in the worldwide focus of Industry and Politics. Especially within the MENA, but also globally, the prohibitions and restrictions to dispose hazardous waste in landfills are progressing.

Rather, the law requires to minimize pollutions in an environmentally friendly way or to remove them completely. Recyclables are to be recovered in the sense of sustainable resource management and to be supplied back in to the recycling loop.

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The range of industrial and hazardous wastes Petroleum Palace Group is offering solutions for is large and includes:

- By and waste products from chemical processes
- Drill Cuttings (oil base / water base)
- Sludge (hydrocarbon polluted)
- Residues from crude oil tanks
- Oil sludge
- Refinery waste
- Grinding sludge from the automotive industry
- Drilling mud from the crude oil exploration and production
- Filter cakes from the industrial wastewater treatment
- Waste with VOC, PAHs, PCBs, pesticides and other hydrocarbons

Cuttings Transport

With complex logistics and hostile environments operators face another challenge, zero or near-zero discharge of drill solids. Stick environment regulations makes operators to rethink the way in which cuttings contaminated with oil and synthetic base drilling fluids are handled.

Petroleum Palace Group offers several methods to handle these contaminated cuttings.

- Cuttings Box (Skip)
- Forklifts (Rotating Heads)
- Trucks, Tippers, Loaders

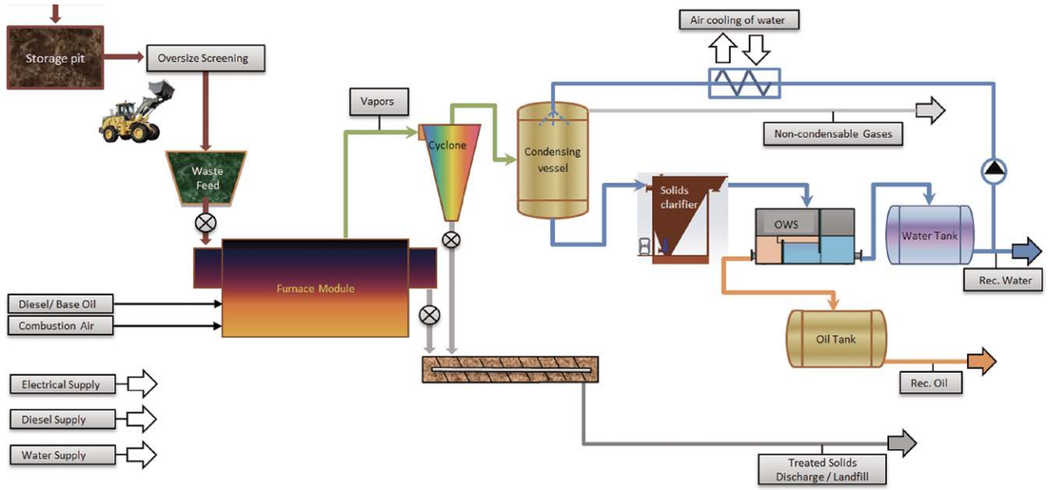
Cuttings Dryer

With high demand for improved environmental practices, operators need solids-control solutions that take liquids/solids separation to a new level.

The cuttings dryer from Petroleum Palace Group incorporates a high-speed centrifuge that achieves maximum liquids/solids separation in large volumes processing. That gives operator a critical advantage in meeting increasingly stringent environmental regulations.

Thermal Desorption

Petroleum Palace Group offers state of art thermal desorption technologies designed to reduce the amount of produced waste at the source, recover valuable base oil and prepare treated solids for safe disposal. Technology is capable of producing dry, clean solids with less than 1% Total Petroleum Hydrocarbon (TPH) content. Our Waste Segregator thermal unit along with TCC (thermo-mechanical cuttings cleaner) is engineered for high mobility, and has flexibility to adjust to changing operational requirements. After thermal treatment discharged material can often be used as a fundamental building material.



Waste Segregator

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Main Futures and Advantages:

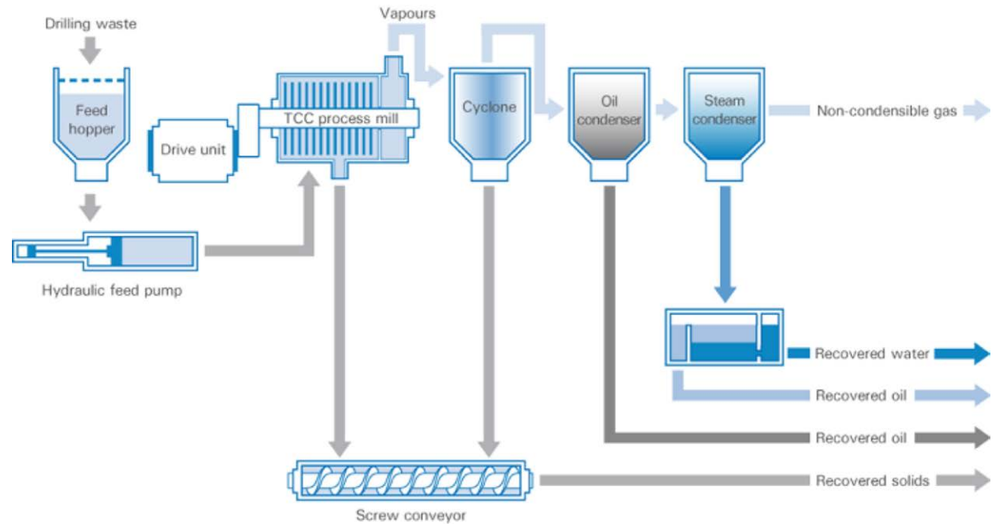
- Designed for minimal rig-up/rig-down time
- Processing rates in of 100-200MT / day (all calculations are completed based on 70% solids / 15% water / 15% oil)
- System enhancement to purify oil without creating a waste stream
- Highly efficient hydrocarbon removal and recovery
- Minimal emissions that comply with all current guidelines
- CE Marking design available
- Minimal personnel requirements

Thermomechanical Cuttings Cleaner (TCC)

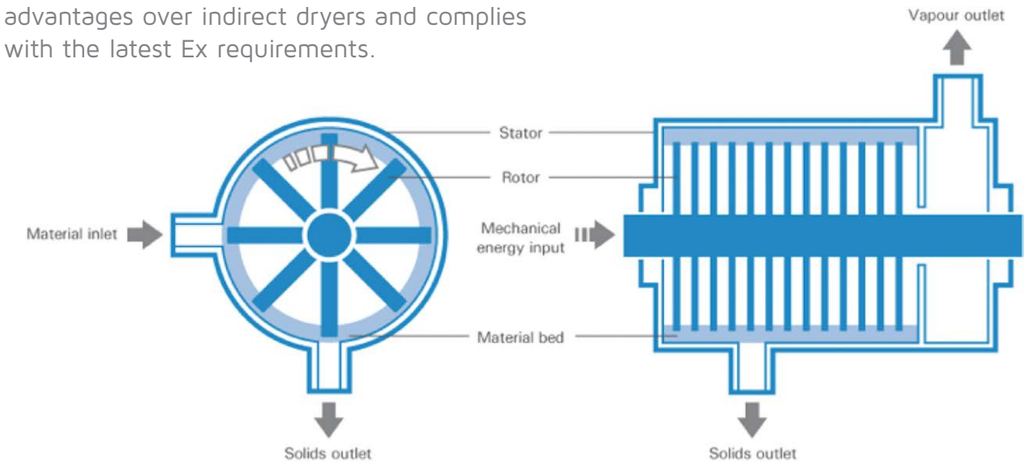
Petroleum Palace Group offers state of art thermal desorption technology designed to reduce the amount of produced waste at the source, recover valuable base oil and prepare treated solids for safe disposal.

How it Works

The TCC cleans the waste using evaporation to separate the fluids from the cuttings, a thermal desorption technology, but also has a key difference from traditional systems, which transfer heat indirectly from large surfaces that are heated by steam, hot oil or heat tracing. The TCC excels because the waste is heated in a fundamentally different way – by friction. The highly efficient TCC flash evaporates water and oil in a fraction of the exposure time required in indirect dryers. As a result, minimal thermal degradation of the base oil occurs, thus enabling the valuable product to be reused.



In addition, the TCC has significant safety advantages over indirect dryers and complies with the latest Ex requirements.



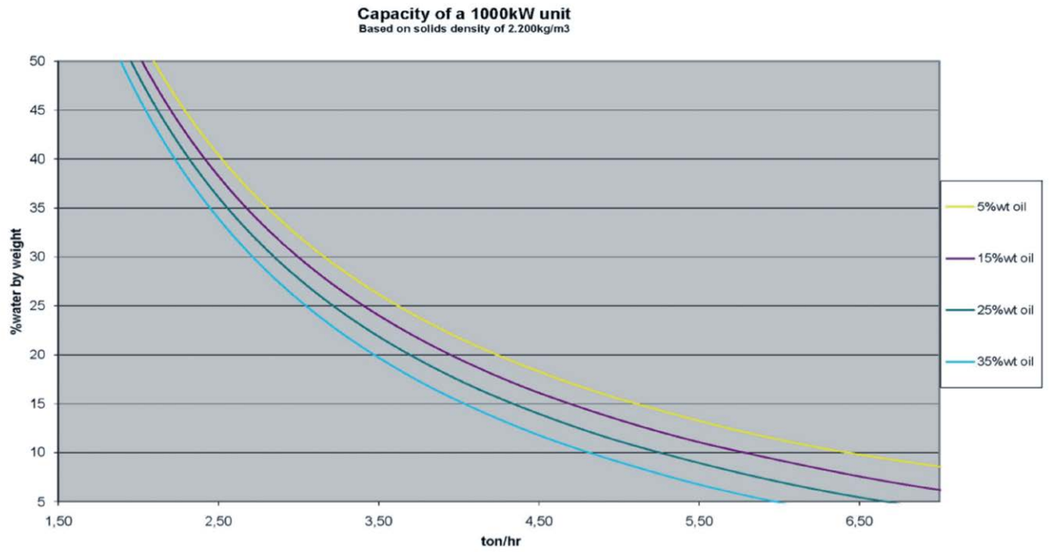
The heart of the TCC is a barrel-shaped chamber (the stator) that houses a shaft with a series of hammer arms (the rotor). The rotor is set into high-speed motion by a motor or engine. The rotation forces the heavier parts of the waste to the inner walls of the stator. The rotor's extreme hammering against this material bed creates a friction and thus the heat that evaporates the oil and water.

Income Factors:

Value of recovered base oil – The recovered base oil has a high commercial value because the quality is comparable to that of new oil.

Value of dried solids – The solids have a potential commercial value because they are suitable for use in asphalt or coating specifications. Alternatively, it may be possible to discharge dried solids to see (in the UK, for example, the TCC has no problem meeting the 1% oil-on-cuttings requirement) with no additional costs, or to send them to landfill.

Capacity – Capacity depends first on engine or motor size; however, in any thermal desorption process, a significant proportion of the totalenergy consumption is related to changing the water from liquid to gas phase. The capacity, therefore, also depends on the amount of water in the waste.



02 | Water Management

Petroleum Palace Group water management division delivers practical and efficient solutions to water treatment and management for drilling fluids, produced water and slop water. Management, treatment, and disposal of produced water and frac water create significant cost and risk to the operators. Cost-effective techniques for managing oilfield water require a comprehensive understanding of separation technologies, production volumes, geological characteristics, chemical behavior, and environmental considerations. Efficient use of improved mechanical and chemical separation combined with our team of water professionals, offers a wide range of solutions to minimize water related costs.
Water Supply Management
Petroleum Palace Group specializes in development of water resources and provides the following services:

- Recycle/reuse of frac water and drilling fluids
- Siting and permitting
- Water Logistics design and optimization
- Construction management

Water Treatment

Petroleum Palace Group uses innovative technologies for dynamic treatment of produced and wastewater for the oilfields and oil refineries. Some of the water treatment services offered are:

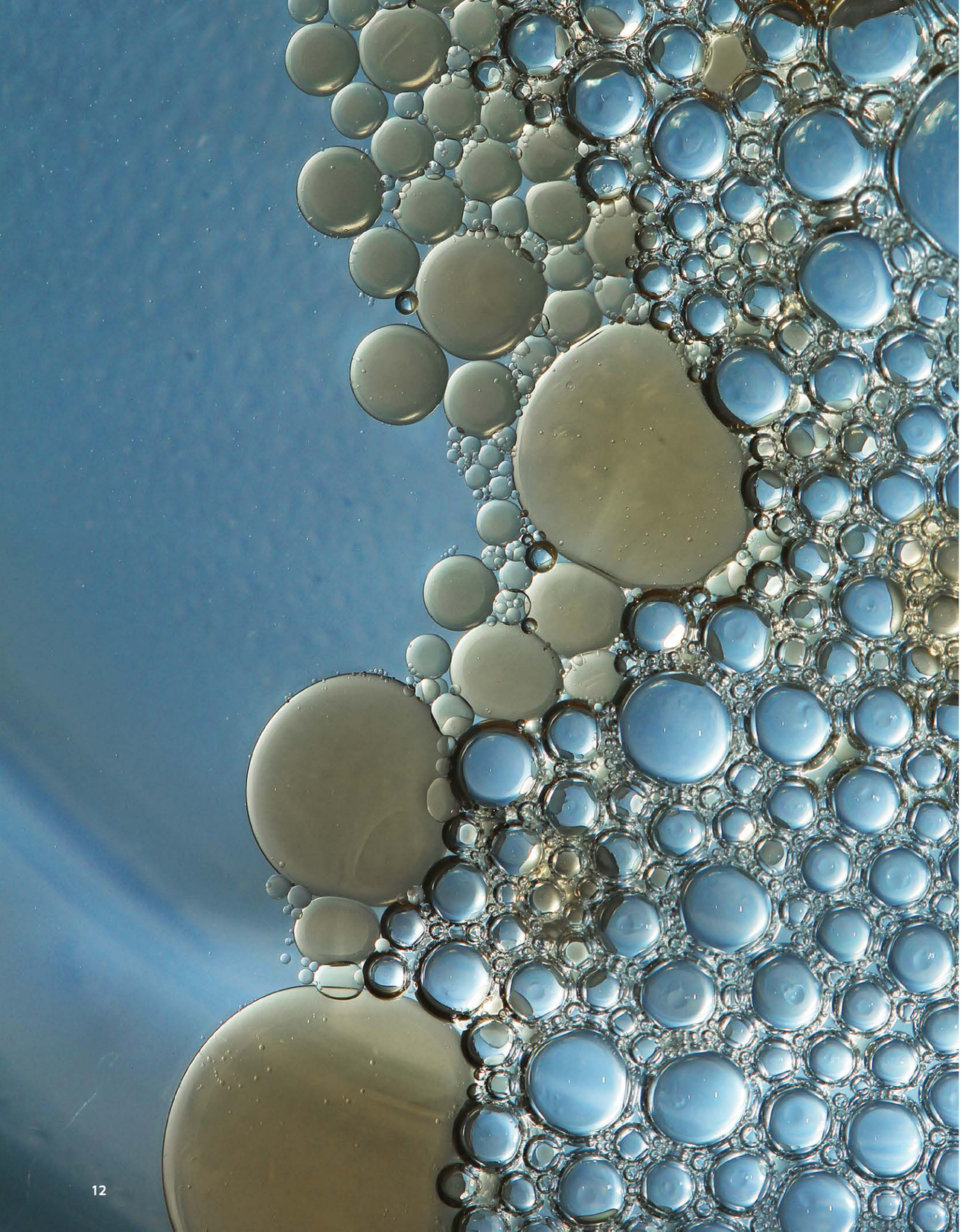
- Dewatering
- Oil-water separators
- Lamella Separators

Dewatering

Palace Group Petroleum offers portable and containerized technologies that remove low gravity solids (LGS) that could seriously degrade performance of water base drilling fluids. Dewatering systems eliminate need for costly dilution to maintain density and rheological properties, preserving water, reducing waste volumes and costs.

The fine particles are removed from through a chemically enhanced process of enhanced centrifugation that much more cost effective that using a single high speed centrifuge. A number of custom designs are available to fit any onshore or offshore rig equipment. Regardless of the unit used Palace Group Petroleum system provide operators a powerful tool for maintaining optimum drilling fluid properties, while minimizing waste, reducing treatment and disposal costs.
Main Futures and Advantages:

- High-capacity centrifuge
- Fully contained unit with a small footprint for rigs with limited space
- Optional add-on flow meter records volumes processed as well as water usage
- Allows cut-point to be reduced below the capabilities of standard solids control equipment operating parameters
- Water recycling capability makes it easier to keep mud in good condition at all times
- Recycling of the fluid phase reduces water hauling, drilling fluid and disposal costs
- Optimizes environmental performance
- Maintains active mud in good working condition



Oil Water Separators

The Petroleum Palace Group separator is a gravity separation device designed by using Stokes Law to define the rise velocity of oil droplets based on their density and size.

The design of the separator is based on the specific gravity difference between the oil and the wastewater because that difference is much smaller than the specific gravity difference between the suspended solids and water. Based on that design criterion, most of the suspended solids will settle to the bottom of the separator as a sediment layer, the oil will rise to top of the separator, and the wastewater will be the middle layer between the oil on top and the solids on the bottom.

Lamella Separators

The Petroleum Palace Group Lamella separator is a gravity separation device designed to remove solids from liquid main streams. In a Lamella plate type design a counter-current flow develops within the inclined plate media where the flow rises upwards through the plate's passes over the solids as they slide down the plates in the opposite direction.

The design of Lamella Separator is based on Stokes Law that relates terminal settling or rise velocity of a smooth, rigid sphere in a viscous fluid of known density and viscosity to the diameter of the sphere when subjected to the gravitational force.

03 | Well Testing Equipment

Well test systems are the facilities installed on drilling units for the purpose of evaluating the quality and/or quantity of the well fluid to determine whether the well should be completed for production or plugged and abandoned. Well test systems may include well control equipment, process pressure vessels, piping and electrical components, control systems, burners and gas flares and burner/flare booms.

Petroleum Palace Group provides surface well testing services and products, including planning, specialized equipment, and monitoring and measurement of all factors relating to the production of oil, gas, and water at a well site. The end result is complete, accurate and reliable data to make critical decisions regarding additional testing, production methods, secondary recovery programs, and developmental drilling.

From separator to the steam heat exchanger, from the surge tanks to the burner units, every component of Petroleum Palace Group surface well testing system is engineered to protect personnel, the environment, your well, and the accuracy of your data.

04 | Storage Tanks

Tanks are very commonly used for variety of purposes in oil field industry including but not limited to short term storage, long term storage, transportation as well as gravity separation of water, oil, gas, muds, sludge, drilling fluids, slop waters, drill cuttings, petro-chemicals, alkalis, drilling fluid additives, injection slurries and so-on.

Petroleum Palace group offers a wide range of tank proven designs most suited to client process and application requirements in a large variety of shapes, elevations, capacities and footprints customized to your needs. We also offer pressurized tanks for compressed gas/ pressurized fluid applications.

Some of the commonly used shapes available with us are:

- Horizontal Cylindrical Tanks
- Vertical Cylindrical Tanks
- Rectangular Tanks
- Open-Top Tanks
- Pressurized Tanks
- Trailer-Type Tanks
- Double-skin tanks

05 | Accommodation Facilities

Petroleum Palace Group offers Accommodation Facilities suitable for oil-fields, located in Zone-1 and Zone-2 hazardous areas as well as non-hazardous or safe areas, both onshore and offshore. Some of the standard designs available are following:

- Pressurized Cabins
- Office / Lab Container
- Workshop Container
- Kitchen / Mess Galley Container
- Locker / Shower Room Container
- Storage Containers
- Mobile Camps

General Features:

- CSC Shipping Container design with corner blocks and stack-ability
- Insulated doors, walls, and roofs
- Double glass windows with internal blinds/louvers
- Air-conditioning with heating options
- Emergency exits
- CE Marked lighting and electrical items

06 | Lab Services

Petroleum Palace Group offers testing and analyses services based on all International standards such as ASTM, IP, BS, ISO, IEC, APHA, GS & FDA/ BAM. Our procedures based on international standards, stringent quality assurance programs and ISO 17025 accreditation contribute and offer the highest accuracy and insight for product qualifications and special investigations.
Petroleum Palace Group offers following services to the petroleum and petrochemical analysis industry.

- Particle Size Analysis
- Retort
- Bulk Density
- Mass Spectrometry
- Gas Chromatography

Our company not only provides the lab analysis services and lab results, but also works with the client to provide feasible, reliable, economical, and safe solutions and recommendations for the client's processes.

07 | Engineering Services

Petroleum Palace Group provide specialized engineering services to oilfield industry, with vast amount of engineering backgrounds including process engineering, structural and vibration engineering, mechanical designs, 3-D modeling and drawings, electrical engineering, instrumentation engineering.

Engineering studies include process and equipment HAZOP, HAZID, FMEA, and RCA (Root cause analysis).

Petroleum Palace Group delivers innovative end-to-end solutions for wide range of engineering requirements to both onshore and offshore.

08 | Project Management Services

Petroleum Palace Group offers project management services for all type of projects.Our experienced personnel are fully accredited to PMP (project management professional) certification, which is nowadays standard for all successfully delivered projects.

Project management is the application of knowledge, skills, tools and techniques to project activities meet the project requirements.

Petroleum Palace Group project management service is accomplished through the appropriate applications and processes grouped under these five (5) main processes:

- Initiating
- Planning
- Executing
- Monitoring and Controlling
- Closing

Managing a project typically includes:

- Identifying requirements
- Addressing the various needs,concerns and expectations of the stakeholders as the project is planned and carried out
- Balancing the competing project constraints including, but not limited to:

Scope
Quality
Schedule
Budget
Resources
Risk

Quality Health Safety Environment

Petroleum Palace Group is an environmental company, set to provide services for oil and gas companies. Our core expertise is the treatment of industrial, drilling and hazardous wastes.

Our company belief is that all accidents are caused by human error and are, therefore, preventable with better training and administration.

The Company's ultimate goal is to eliminate all injuries and environmental incidents from the work place.

As a Company and on an individual employee level, we will monitor and measure our QHSE performance to ensure that we are continually meeting objectives and improving the system. Every individual employee is individually responsible for working safely, in an environmentally responsible manner and ensuring that fellow employees do the same.

Our system provides information and guidance on safety issues related to the purchase and use of work equipment, work permits, lockout/tagout, confined-space entry, transport of hazardous materials, driver safety and other key safety issues. The occupational health system covers information and guidance on medical services, personnel exposure to physical, chemical and biological hazards and more specific issues such as the safe handling of drilling and completion fluids.

The strength of a company's commitment to health, safety and the environment is determined by the conviction of its management and the execution of its QHSE system by all of its employees. We are determined to be the leader in QHSE performance in the industry.

Our main focus is placed on ensuring human health, operational safety, environmental protection, quality enhancement, and community goodwill. This commitment is in the best interests of our customers, our employees and contractors, and the communities in which we live and work.

Get in **touch.**

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