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SAKA
HOLDING



COMPANY
PROFILE

SAKA PETROL

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COMPANY PROFILE

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WHO WE ARE

- SAKA PETROL, with its expert staff, serves in the markets of the Middle East, Far Asia, Africa and Latin America, especially in the Gulf countries, with the business of in oil, petroleum products and gas supply, is one of the growth-oriented sectoral players with its sustainable business policy.
- Our operations consist of supplying crude oil and products for refining systems and other needs, the trading of crude oil and our own products, their maritime transport, and the management of product coverage in the financial derivatives markets.
- SAKA PETROL, which takes its strength from sustainable business partnerships and relationship management, has succeeded in being in the oil economy that steers the world with the energy policies of the 20th century, with its management experience and has been able to combine these experiences with its commercial resources in today's century.

WHO WE ARE



SAKA PETROL



OUR VISION

WHERE WE'RE HEADED



To be a global energy company that creates value in a sustainable manner through innovation, efficiency, and respect to drive progress in society.

OUR MISSION

OUR REASON FOR BEING



"An energy company committed to a sustainable world."

VISION & MISSION

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OUR VALUES

Our values are reflected in each and every one of our actions.



Efficiency

We make optimal use of our resources and our time. We're agile and flexible in the way we work to achieve the best results.



Respect

We create a workplace of inclusivity and trust, while being aware of the impact of our actions and decisions on society and the environment.



Foresight

We seize new opportunities that arise in the context of the energy transition and contribute new solutions.



Value-oriented

We identify what is truly critical and differential in our daily work to achieve goals and results, while placing special value on the fact that we are all....

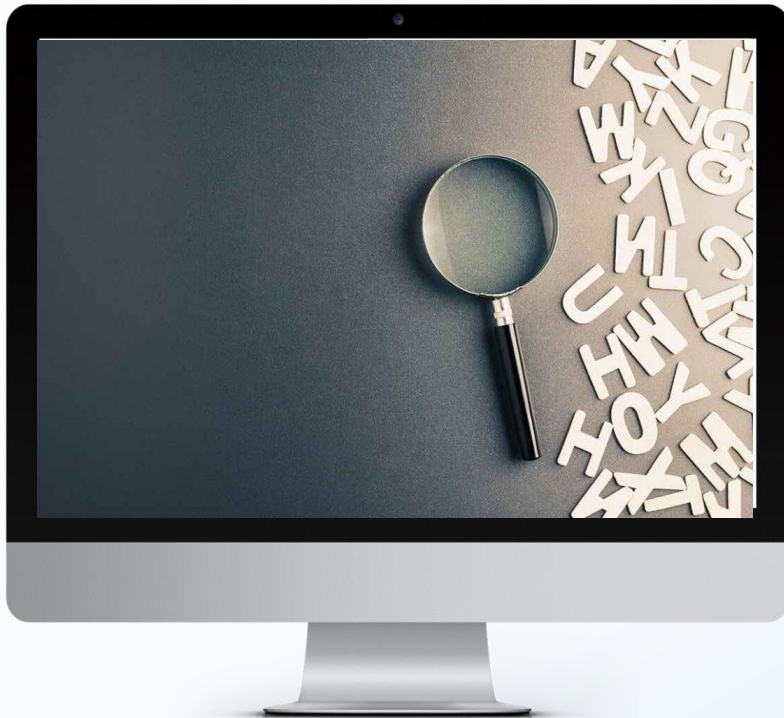
OUR VALUES

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OIL & GAS INTRODUCTION

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Introduction

- Oil and natural gas are major industries in the energy market and play an influential role in the global economy as the world's primary fuel sources. The processes and systems involved in producing and distributing oil and gas are highly complex, capital-intensive, and require state-of-the-art technology. Historically, natural gas has been linked to oil, mainly because of the production process or upstream side of the business. For much of the history of the industry, natural gas was viewed as a nuisance and even today is flared in large quantities in some parts of the world, including the United States.
- Natural gas has taken on a more prominent role in the world's energy supply as a consequence of shale gas development in the United States, as mentioned above, and its lower greenhouse gas emissions when combusted when compared to oil and coal.
- The industry is often divided into three segments:
 - upstream, the business of oil and gas exploration and production;
 - midstream, transportation and storage; and
 - downstream, which includes refining and marketing.



OIL & GAS INTRODUCTION

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Organizations and Cartels

- A cartel, as defined by the Organization for Economic Co-operation and Development (OECD), is when firms create a formal agreement to "raise or fix prices and to reduce output in order to increase profits." This agreement harms consumers because it makes products unavailable or overly-expensive.¹ Industries that are made up of a few large companies, have high start-up costs, and produce less complex goods are more likely to collude on price and production. Historically, cartels have existed in the steel, railroad transportation, and vitamin industries.² In the oil and gas industry, the Organization of the Petroleum Exporting Countries (OPEC) is often used as an example of a cartel. Although there is debate around whether the economic evidence demonstrates it is a true cartel, OPEC's member countries do exert market influence.³ The focus of OPEC is to control oil output in order to influence prices. As natural gas may be produced with oil, some view OPEC as also being an indirect natural gas cartel. Additionally, a group of countries have formed what is called the Gas Exporting Countries Forum (GECF), which some refer to as a gas-OPEC. The GECF does not try to limit production, nor influence prices in other ways, but some members have called on the organization to change its mandate and try to control production to "make the market more stable." The GECF has been around for about ten years, which is about the same amount of time that it took OPEC to gain its footing and insert itself into the oil market.

OIL & GAS INTRODUCTION



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Organizations and Cartels

- Prior to OPEC, the oil market was dominated by seven major oil companies often known as the Seven Sisters, who colluded to manipulate price and production, sometimes under the direct request of the U.S. Government, and other times investigated by the U.S. Government for violating antitrust laws.⁴ After World War II, faced with threats of nationalizing oil production, the Seven Sisters agreed to split oil profits fifty-fifty with oil exporting countries. However, as competition from Russian oil increased, Standard Oil of New Jersey (Exxon) concluded they needed to drastically reduce oil prices. The other majors reluctantly followed suit, which ultimately reduced income to the oil exporting countries. In 1960, as a response to the price drop, the oil exporting countries created OPEC to diminish the influence of multinational oil companies.
- OPEC is a permanent, intergovernmental organization (IGO) created at the Baghdad Conference on September 10-14, 1960. It was an outgrowth of the 1st Arab Petroleum Congress in 1959 when the Oil Consultation Commission, created by a few of the oil producing countries, signed what was known as the Maadi Pact. Its current mission is to coordinate petroleum policies between its member countries with the goal of stabilizing the oil market for consumers, producers, and investors. A number of countries have sought various agreements and acts to limit the impact of OPEC on the global oil market.



OIL & GAS INTRODUCTION

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Oil and Gas Companies

- Energy companies, nationally owned and privately owned, are some of the biggest companies that have ever existed in the world. Many of them are well known, Exxon (U.S.), Chevron (U.S.), Saudi Aramco (Saudi Arabia), Gazprom (Russia), China National Petroleum Corporation (China), Equinor (formerly Statoil of Norway), TOTAL (France), and ENI (Italy). Additionally, companies that use oil and natural gas, like autos, electric providers, and airlines are also among the most well-known and largest companies.
- The oil and gas industry is frequently divided into three segments: upstream, midstream and downstream. While each of these areas has a number of independent companies, major companies in oil and gas are often considered integrated, meaning their businesses consist of a mix of upstream, midstream and downstream activities. Companies can be private, public, or state-owned, which impacts the amount of information available.

OIL & GAS INTRODUCTION



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Researching Oil and Gas Companies

- Supermajor integrated oil and gas companies are involved in each segment of the industry and are defined as typically having market capitalization of \$100 billion or more. They are often international oil companies (IOCs).
- Major integrated companies are defined as typically having market capitalization of \$10 billion to \$100 billion.
- An independent company focuses on one segment of the industry and is defined as a producer who does not have more than \$5 million in retail sales of oil and gas in a year or who does not refine more than an average of 75,000 barrels per day of crude oil during a given year.
- Regardless of size, there is more data available for publicly-owned companies. Private companies, including government-owned companies, are often not legally required to disclose information, making company research more difficult.



OIL & GAS INTRODUCTION

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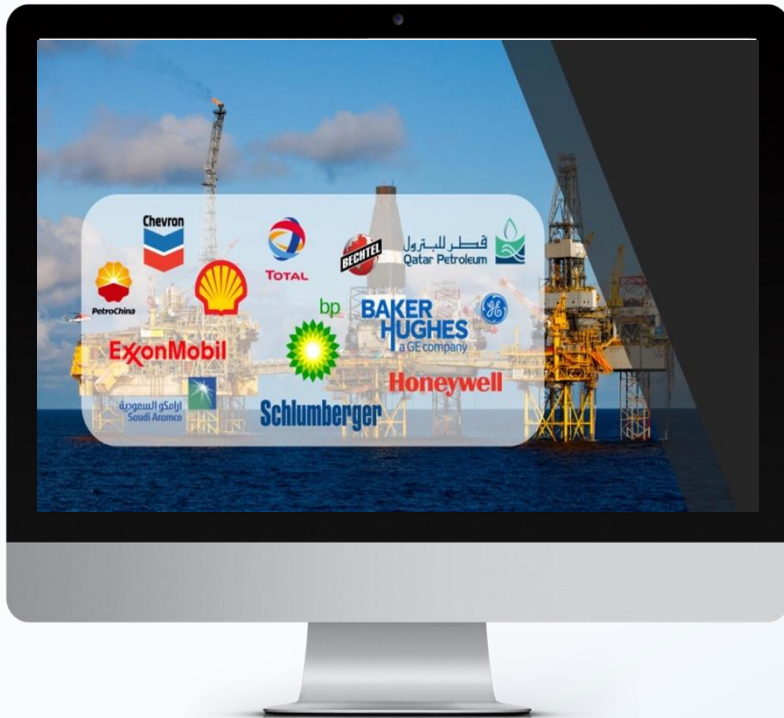
Segment-specific Company Features

- Upstream companies focus on exploration and production. Most crude oil production is controlled by National Oil Companies, which includes OPEC, or integrated international oil companies. Upstream companies benefit from high oil and gas prices and high volumes. Other metrics include rig count and capital spending.
- Midstream companies handle the transportation and storage of oil and gas. This segment is made up of many independent transportation operators. Oil and gas volumes are important to midstream companies, and prices as they relate to volume: If the price drops so low that upstream companies stop producing, midstream companies are not needed for transportation.
- Downstream companies manage the refining and marketing of oil and gas. There is lower market concentration than the upstream segment. Downstream companies benefit from profit margins where they are able to sell their refined products for more than the cost of acquiring the crude resources. Other metrics include the number and size of refineries.
- Because this industry often shifts with mergers and acquisitions, we've provided example companies in each segment of the industry.

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Sample Companies in the Oil and Gas Industry

Integrated	Upstream	Midstream	Downstream
BP	Devon Energy	Enable Midstream Partners LP	Delek US Holdings
Chevron	Occidental	Enbridge	Marathon Petroleum
Exxon Mobile		Kinder Morgan	Valero Energy
Royal Dutch Shell		Seacor Holdings Inc.	
		Teekay Shipping Corp.	
		Western Gas Partners LP	

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National Oil Companies (NOCs)

- Since Mexico nationalized its oil production in 1938, countries have been creating private state-owned companies or purchasing significant shares in publicly traded oil companies. The rise of oil nationalization is seen as a response to historical exploitation by international oil companies, and as a political strategy to control access to and decisions surrounding national resources.

Sample National Oil Companies

Company	Country
Saudi Aramco	Saudi Arabia
National Iranian Oil Company (NIOC)	Iran
Gazprom	Russia
China National Petroleum Corporation (CNPC)	China

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Upstream: Production and Exploration

- The upstream segment of the oil and gas industry contains exploration activities, which include creating geological surveys and obtaining land rights, and production activities, which include onshore and offshore drilling.

Crude oil is categorized using two qualities: Density and sulfur content.

- Density is measured by API gravity, and ranges from light (high API gravity/low density) to heavy (low API gravity/high density).
- Sulfur content ranges from sweet (low sulfur content) to sour (high sulfur content).
- Light and sweet crude oil is usually priced higher, and therefore more sought after, because it is easier to refine to make gasoline than heavy and sour crude oil. Oil volume is measured in barrels (bbl), which equals 42 gallons.

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Upstream: Production and Exploration

- **Natural gas** is found in both associated formations, meaning it is formed and produced with oil, and non-associated reservoirs. Gas can either be dry (pure methane), or wet (exists with other hydrocarbons like butane). Although wet gas must be treated to remove the other hydrocarbons and other condensates before it can be transported, it can increase producers' revenues because they can sell those removed products.
- The advent of shale gas in the United States is one of the biggest breakthroughs in the history of the energy industry. Prior to its development, the United States was viewed as a growing natural gas importer. But production from shale gas has catapulted the United States into being the world's largest producer of natural gas and a fast-growing exporter. The two primary technological advances that made production from shale and other tight formations economically possible were horizontal drilling and hydraulic fracturing.



OIL & GAS INTRODUCTION

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Exploration

- Oil and gas exploration encompasses the processes and methods involved in locating potential sites for oil and gas drilling and extraction. Early oil and gas explorers relied upon surface signs like natural oil seeps, but developments in science and technology have made oil and gas exploration more efficient. Geological surveys are conducted using various means from testing subsoil for onshore exploration to using seismic imaging for offshore exploration. Energy companies compete for access to mineral rights granted by governments by either entering a concession agreement, meaning any discovered oil and gas are the property of the producers, or a production-sharing agreement, where the government retains ownership and participation rights.
- Exploration is high risk and expensive, involving primarily corporate funds. The cost of an unsuccessful exploration, such as one that consisted of seismic studies and drilling a dry well, can cost \$5 million to \$20 million per exploration site, and in some cases, much more. However, when an exploration site is successful and oil and gas extraction is productive, exploration costs are recovered and are significantly less in comparison to other production costs.



OIL & GAS INTRODUCTION

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Production

- Oil and gas production is one of the most capital-intensive industries: It requires expensive equipment and highly skilled labors. Once a company identifies where oil or gas is located, plans begin for drilling. Many oil and gas companies contract with specialized drilling firms and pay for the labor crew and rig dayrates. Drilling depths, rock hardness, weather conditions and distance of the site can all affect the drilling duration. Tracking data using smart technologies can help with drilling efficiency and well performance by providing real-time information and trends. While every drilling rig has the same essential components, the drilling methods vary depending on the type of oil or gas and the geology of the location.
- **Onshore**
 - In onshore drilling facilities, the wells are grouped together in a field, ranging from a half acre per well for heavy crude oil to 80 acres per well for natural gas. The group of wells are connected by carbon steel tubes which sends the oil and gas to a production and processing facility where the oil and gas are treated through a chemical and heating process. Onshore production companies can turn on and off rigs more easily than offshore rigs to respond to market conditions.

OIL & GAS INTRODUCTION



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Production

- **Offshore**

- Offshore drilling uses a single platform that is either fixed (bottom supported) or mobile (floating secured with anchors). Offshore drilling is more expensive than onshore drilling, and fixed rigs are more expensive than mobile rigs. Most production facilities are located on coastal shores near offshore rigs.

- **Hydraulic Fracturing**

- Fracking, or hydraulic fracturing, is a technique using a high-pressure liquid to extract oil or gas from geologic formations. While the technology has existed since the 1940s, it became more economical in the late 1990s when George Mitchell's Mitchell Energy & Development Corporation patented slick water fracturing. The use of fracking has led to recovering gas, followed by oil, from previously inaccessible parts of drilled wells in addition to extractions from coalbed wells, tight sand formations and shale formations. Fracking is now used in 90% of new U.S. oil wells, especially as the number of conventional reservoirs has decreased.

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Midstream

- The midstream sector covers transportation, storage, and trading of crude oil, natural gas, and refined products. In its unrefined state, crude oil is transported by two primary modes: tankers, which travel interregional water routes, and pipelines, which most of the oil moves through for at least part of the route.
- Once the oil has been extracted and separated from natural gas, pipelines transport the products to another carrier or directly to a refinery. Petroleum products then travel from the refinery to market by tanker, truck, railroad car, or more pipelines.
- Tankers deliver petroleum by transporting oil and refined products from other countries to the U.S. to make up the difference between domestic products and demand. Tankers also transport oil along the Gulf coast. The Merchant Marine Act of 1920, also known as the Jones Act, heavily impacts the transportation industry, as it requires vessels that transport cargo from one U.S. port to another U.S. port must be built in the United States, and majority owned and operated by United States citizens or permanent residents.

OIL & GAS INTRODUCTION



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Storage

- Storage of oil and natural gas helps smooth out supply and demand discrepancies. Companies store more when the prices are lower than they would like and withdraw when prices are high. The cheapest storage method is underground spaces, such as depleted reservoirs. This method is primarily used for natural gas; finished oil products cannot be stored in underground natural spaces per regulations. Above ground tanks are used for crude and refined oil, finished oil products, and natural gas. At retail locations, like gas stations, tanks are stored underground for safety reasons. Tanker ships are used for temporary storage when land storage is at capacity, making it the most expensive option.
- There is a minimum operating level of crude oil that cannot be removed from pipelines, refinery tanks, overall system without difficulties. In 2020, the coronavirus pandemic dramatically reduced the demand for oil, which was coupled with an oversupply due to Saudi Arabia increasing oil production and OPEC and non-OPEC countries failing to come to an agreement on reducing oil production. This meant storage tanks were near capacity. In response, oil storage companies drastically increased their storage rates. In one example, tankers were charging around \$25,000 per day in February of 2020, but by April had risen rates to \$300,000 per day.

OIL & GAS INTRODUCTION



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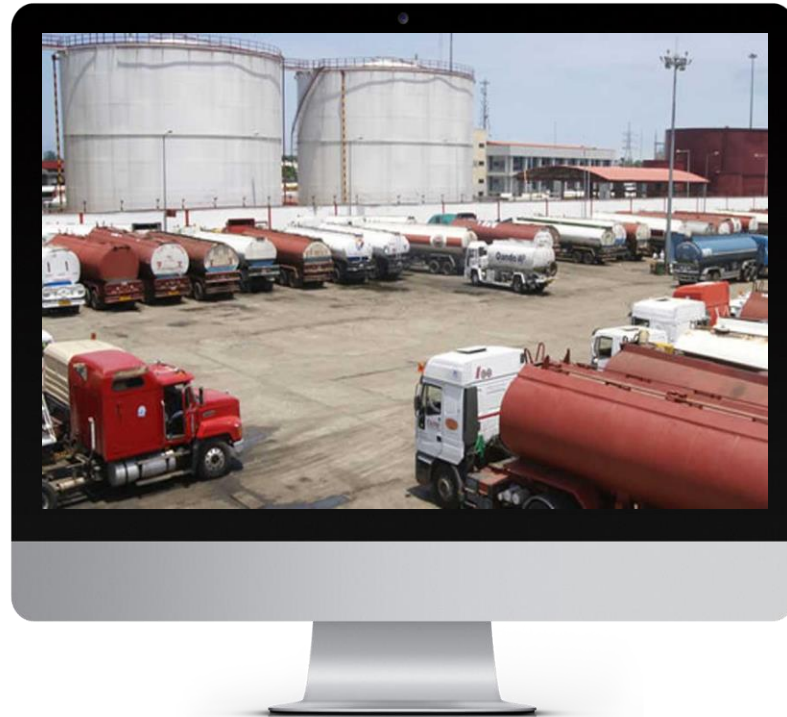
Downstream: Refining

- While refining is a complex process, the goal is straightforward: to take crude oil, which is virtually unusable in its natural state, and transform it into petroleum products used for a variety of purposes such as heating homes, fueling vehicles and making petrochemical plastics.
- A number of processes are involved in refining depending on the wanted end product. Hydrotreating is used to remove unwanted elements, such as sulphur and nitrogen from hydrocarbons; cracking breaks molecules into smaller fragments to produce gasoline and other lighter hydrocarbons. The gasses produced by cracking are used to create other products like synthetic rubber and plastics. When making gasoline, refiners need high octane numbers to prevent engine knocking. Despite knowing the dangers of lead, tetraethyl lead was added to gasoline in the United States in the 1920s in order to increase the octane. Since the U.S. government banned lead in vehicle gasoline in 1996 as part of the U.S. Clean Air Act, refineries use alkylation and reforming to develop high-octane gasoline.
- Refineries are usually located near population centers to facilitate marketing and distribution of final products.



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Downstream: Marketing

- Marketing is the wholesale and retail distribution of refined petroleum products to business, industry, government, and public consumers. Generally crude oil and petroleum products flow to the markets that provide the highest value to the supplier, which usually means the nearest market first because of lower transportation cost and higher net revenue for the supplier. In practice, however, the trade flow may not follow this pattern due to other factors, such as refining configurations, product demand mix, and product quality specifications.
- Gasoline service stations handle the bulk of public consumer sales and oil companies sell their petroleum products directly to factories, power plants, and transportation-related industries. Natural gas sales are almost evenly divided between industrial consumers, electrical providers, and residential and commercial heating.
- Because gasoline is a commodity that is more or less the same, competition for customers required creative marketing tactics. Retail gasoline stations offered free services like maps, car washing, and dinnerware. Oil company brands offered credit cards starting in the 1950s to ensure customer loyalty. Radio, billboard, and television ads promoted catchy slogans, additives, and adjectives like "premium" and "high performance" to attract drivers.
- Advertorials, or sponsored op-eds, were used by Mobil in the New York Times to publish pro-oil industry commentary. Today, social media gives companies a platform to promote various energy initiatives and mitigate news negative.



OIL & GAS INTRODUCTION



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PRODUCT

JET A-1



JET A-1

- Jet fuel or aviation turbine fuel (ATF, also abbreviated avtur) is a type of aviation fuel designed for use in aircraft powered by gas-turbine engines. It is colorless to straw-colored in appearance. The most commonly used fuels for commercial aviation are Jet A and Jet A-1, which are produced to a standardized international specification. The only other jet fuel commonly used in civilian turbine-engine powered aviation is Jet B, which is used for its enhanced cold-weather performance.
- Jet fuel is a mixture of a variety of hydrocarbons. Because the exact composition of jet fuel varies widely based on petroleum source, it is impossible to define jet fuel as a ratio of specific hydrocarbons. Jet fuel is therefore defined as a performance specification rather than a chemical compound. Furthermore, the range of molecular mass between hydrocarbons (or different carbon numbers) is defined by the requirements for the product, such as the freezing point or smoke point. Kerosene-type jet fuel (including Jet A and Jet A-1, JP-5, and JP-8) has a carbon number distribution between about 8 and 16 (carbon atoms per molecule); wide-cut or naphtha-type jet fuel (including Jet B and JP-4), between about 5 and 15

PRODUCT



DIESEL FUEL



DIESEL FUEL

- In many countries, diesel fuel is standardized. For example, in the European Union, the standard for diesel fuel is EN 590. Diesel fuel has many colloquial names; most commonly, it is simply referred to as diesel. In the United Kingdom, diesel fuel for on-road use is commonly called diesel or sometimes white diesel if required to differentiate it from a tax-advantaged agricultural-only product containing an identifying-colored dye known as red diesel. The official term for white diesel is DERV, standing for diesel-engine road vehicle. In Australia, diesel fuel is also known as distillate (not to be confused with "distillate" in an older sense referring to a different motor fuel), and in Indonesia, it is known as Solar, a trademarked name from the country's national petroleum company PERTAMINA. The term gas oil is sometimes also used to refer to diesel fuel.
- Ultra-low-sulfur diesel (ULSD) is a diesel fuel with substantially lowered sulfur contents. As of 2016, almost all of the petroleum-based diesel fuel available in the United Kingdom, mainland Europe, and North America is of a ULSD type.
- Before diesel fuel had been standardized, the majority of diesel engines typically ran on cheap fuel oils. These fuel oils are still used in watercraft diesel engines. Despite being specifically designed for diesel engines, diesel fuel can also be used as fuel for several non-diesel engines, for example the Akroyd engine, the Stirling engine or boilers for steam engines.



PRODUCT

BASE OIL



BASE OIL

- Base oils are used to manufacture products including lubricating greases, motor oil and metal processing fluids. Different products require different compositions and properties in the oil. One of the most important factors is the liquid's viscosity at various temperatures. Whether or not a crude oil is suitable to be made into a base oil is determined by the concentration of base oil molecules as well as how easily these can be extracted.
- Base oil is produced by means of refining crude oil. This means that crude oil is heated in order that various distillates can be separated from one another. During the heating process, light and heavy hydrocarbons are separated – the light ones can be refined to make petrol and other fuels, while the heavier ones are suitable for bitumen and base oils.
- There are large numbers of crude oils all around the world that are used to produce base oils. The most common one is a type of paraffinic crude oil, although there are also naphthenic crude oils that create products with better solubility and very good properties at low temperatures. By using hydrogenation technology, in which sulfur and aromatics are removed using hydrogen under high pressure, extremely pure base oils can be obtained, which are suitable when quality requirements are particularly stringent.
- Chemical substances – additives – are added to the base oil in order to meet the quality requirements for the end products in terms of, for example, friction and cleaning properties. Certain types of motor oils contain more than twenty percent additives.



PRODUCT

BASE OIL

API BASE OIL CLASSIFICATION

	VI	SATURATES %	SULPHUR %
GROUP I	80-100	<90	>0.03
GROUP II	80-120	>90	<0.03
GROUP III	>120	>90	<0.03
GROUP IV	POLY ALFA-OLEFINS (SYNTHETIC ORIGIN)		

BASE OIL OFFICIAL CLASSIFICATIONS

- In 1993, the American Petroleum Institute (API), categorized base oils into five main groups. This breakdown is based on the refining method and the base oil's properties in terms of, among other things, viscosity and the proportion of saturates and sulfur content.
- **Group I**
 - Originating in the 1930s, the least refined type which is produced by Solvent Refining. It usually consists of conventional petroleum base oils. An improvement to the refining process in the 1960s called hydro-treating made this base oil more stable, less reactive, and longer lasting than the earlier base oils. API defines group I as "base stocks contain less than 90 percent saturates and/or greater than 0.03 percent sulfur and have a viscosity index greater than or equal to 80 and less than 120".
- **Group II**
 - Originating in 1971, a better grade of petroleum base oil, which may be partially produced by Hydrocracking. All impurities will be removed from the oil leading to clearer color. API defines group II as "base stocks contain greater than or equal to 90 percent saturates and less than or equal to 0.03 percent sulfur and have a viscosity index greater than or equal to 80 and less than 120".



PRODUCT

BASE OIL

API BASE OIL CLASSIFICATION

	VI	SATURATES %	SULPHUR %
GROUP I	80-100	<90	>0.03
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GROUP IV	POLY ALFA-OLEFINS (SYNTHETIC ORIGIN)		

BASE OIL OFFICIAL CLASSIFICATIONS

- **Group III**

- Originating in 1993, the best grade of petroleum base oil, since they are fully produced by Hydrocracking, Hydroisomerization, and Hydrotreating, which make these oils purer. API defines group III as "base stocks contain greater than or equal to 90 percent saturates and less than or equal to 0.03 percent sulfur and have a viscosity index greater than or equal to 120". This group may be described as Synthetic Technology oils or Hydro-Cracked Synthetic oil. However, some oil companies may call their products under this group as synthetic oil.

- **Group IV**

- Originating in 1974, consists of synthetic oils made of Poly-alpha-olefins (PAO). Group IV base oils have a viscosity index range of 125 - 200. Poly-alpha-olefins (PAO) oils have a higher oxidative stability in extreme temperatures, and also have exceptionally low pour points, which makes them much more suitable for use in very cold weather (as found in northern Europe), as well as in very hot weather (as in Middle East).

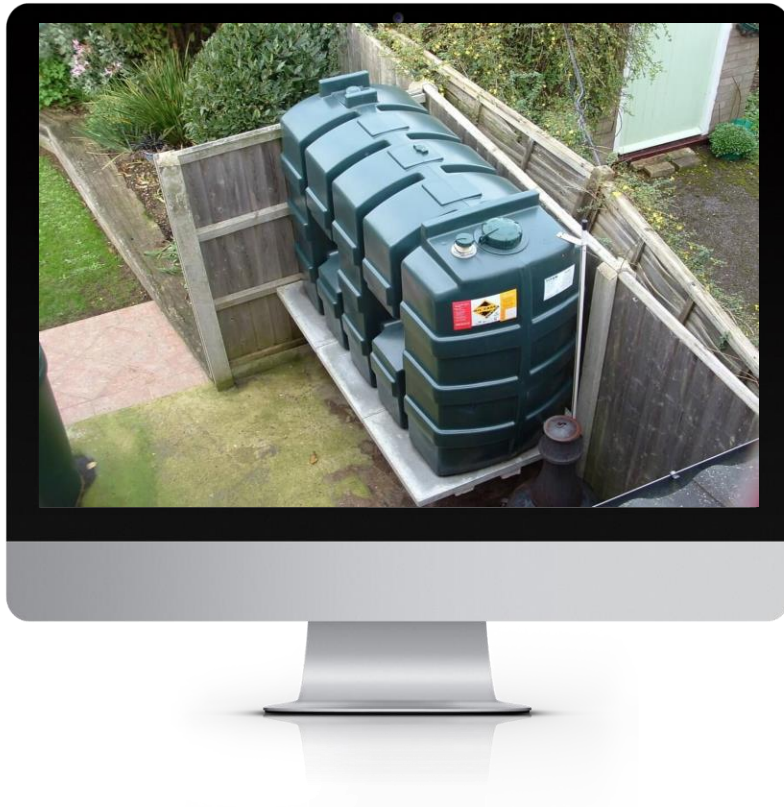
- **Group V**

- Originating in the 1940s, any type of base oil other than mentioned in the previously defined groups. They include, among others, naphthenic oils and polyesters.

PRODUCT AND SERVICES



HEATING OIL



HEATING OIL

- Heating oil is any petroleum product or other oil used for heating; a fuel oil. Most commonly, it refers to low viscosity grades of fuel oil used for furnaces or boilers use for home heating and in other buildings. Home heating oil is often abbreviated as HHO. Most heating oil products are chemically very similar to diesel fuel used as motor fuel; motor fuel is typically subject to higher fuel taxes. Many countries add fuel dyes to heating oil, allowing law enforcement to check if a driver is evading fuel taxes. Since 2002, Solvent Yellow 124 has been added as a "Euro marker" in the European Union; untaxed diesel is known as "red diesel" in the United Kingdom.
- Heating oil is commonly delivered by tank truck to residential, commercial and municipal buildings and stored in above-ground storage tanks ("ASTs") located in the basements, garages, or outside adjacent to the building. It is sometimes stored in underground storage tanks (or "USTs") but less often than ASTs. ASTs are used for smaller installations due to the lower cost factor. Heating oil is less commonly used as an industrial fuel or for power generation. Leaks from tanks and piping are an environmental concern. Various federal and state regulations are in place regarding the proper transportation, storage and burning of heating oil, which is classified as a hazardous material (HazMat) by federal regulators.



PRODUCT AND SERVICES

LPG



LPG

- Liquefied petroleum gas (LPG or LP gas) is a fuel gas which contains a flammable mixture of hydrocarbon gases, specifically propane, propylene, butylene, isobutane and n-butane.
- LPG is used as a fuel gas in heating appliances, cooking equipment, and vehicles. It is increasingly used as an aerosol propellant and a refrigerant, [replacing chlorofluorocarbons in an effort to reduce damage to the ozone layer. When specifically used as a vehicle fuel, it is often referred to as autogas or even just as gas.
- Varieties of LPG that are bought and sold include mixes that are mostly propane (C_3H_8), mostly butane (C_4H_{10}), and, most commonly, mixes including both propane and butane. In the northern hemisphere winter, the mixes contain more propane, while in summer, they contain more butane. In the United States, mainly two grades of LPG are sold: commercial propane and HD-5. These specifications are published by the Gas Processors Association (GPA)] and the American Society of Testing and Materials. Propane/butane blends are also listed in these specifications.



PRODUCT

LNG



LNG

- Liquefied natural gas (LNG) is natural gas (predominantly methane, CH_4 , with some mixture of ethane, C_2H_6) that has been cooled down to liquid form for ease and safety of non-pressurized storage or transport. It takes up about 1/600th the volume of natural gas in the gaseous state (at standard conditions for temperature and pressure).
- Natural gas was considered during the 20th century to be economically unimportant wherever gas-producing oil or gas fields were distant from gas pipelines or located in offshore locations where pipelines were not viable. In the past this usually meant that natural gas produced was typically flared, especially since unlike oil, no viable method for natural gas storage or transport existed other than compressed gas pipelines to end users of the same gas. This meant that natural gas markets were historically entirely local, and any production had to be consumed within the local or regional network.
- Developments of production processes, cryogenic storage, and transportation effectively created the tools required to commercialize natural gas into a global market which now competes with other fuels. Furthermore, the development of LNG storage also introduced a reliability in networks which was previously thought impossible. Given that storage of other fuels is relatively easily secured using simple tanks, a supply for several months could be kept in storage.



PRODUCT

NATURAL GAS



NATURAL GAS

- Natural gas (also called fossil gas or simply gas) is a naturally occurring mixture of gaseous hydrocarbons consisting primarily of methane in addition to various smaller amounts of other higher alkanes. Low levels of trace gases like carbon dioxide, nitrogen, hydrogen sulfide, and helium are also usually present. Natural gas is colorless and odorless, so odorizers such as mercaptan (which smells like sulfur or rotten eggs) are commonly added to natural gas supplies for safety so that leaks can be readily detected.
- Natural gas is a fossil fuel and non-renewable resource that is formed when layers of organic matter (primarily marine microorganisms) decompose under anaerobic conditions and are subjected to intense heat and pressure underground over millions of years. The energy that the decayed organisms originally obtained from the sun via photosynthesis is stored as chemical energy within the molecules of methane and other hydrocarbons.
- Natural gas can be burned for heating, cooking, and electricity generation. It is also used as a chemical feedstock in the manufacture of plastics and other commercially important organic chemicals and less commonly used as a fuel for vehicles.

PRODUCT



NATURAL GAS



NATURAL GAS

- The extraction and consumption of natural gas is a major and growing contributor to climate change. Both the gas itself (specifically methane) and carbon dioxide, which is released when natural gas is burned, are greenhouse gases. When burned for heat or electricity, natural gas emits fewer toxic air pollutants, less carbon dioxide, and almost no particulate matter compared to other fossil and biomass fuels. However, gas venting and unintended fugitive emissions throughout the supply chain can result in natural gas having a similar carbon footprint to other fossil fuels overall.
- Natural gas can be found in underground geological formations, often alongside other fossil fuels like coal and oil (petroleum). Most natural gas has been created through either biogenic or thermogenic processes. Biogenic gas is formed when methanogenic organisms in marshes, bogs, landfills, and shallow sediments anaerobically decompose but are not subjected to high temperatures and pressures. Thermogenic gas takes a much longer period of time to form and is created when organic matter is heated and compressed deep underground.
- Natural gas is measured in standard cubic meters or standard cubic feet. The density compared to air ranges from 0.58 (16.8 g/mole, 0.71 kg per standard cubic meter) to as high as 0.79 (22.9 g/mole, 0.97 kg per scm), but generally less than 0.64 (18.5 g/mole, 0.78 kg per scm). For comparison, pure methane (16.0425 g/mole) has a density 0.5539 times that of air (0.678 kg per standard cubic meter).



PRODUCT



HR

HR POLICY

HR POLICY

The policy is embedded in SAKA PETROL's Business Conduct and Ethics Code compliance training for all employees. Various levels of training are in place to inform our teams as they work to manage potential impacts in the communities where we operate, the provision of security, the administration of our workforce, and the procurement of products and services.

- SAKA PETROL's Human Rights Policy commits to respecting human rights as set out in the United Nations Universal Declaration of Human Rights and the International Labor Organization (ILO) Declaration on Fundamental Principles and Rights at Work, and adheres to the principles set out in the United Nations Guiding Principles on Business and Human Rights, the Voluntary Principles on Security and Human Rights and the International Finance Corporation's Performance Standards.
- Although governments have the primary duty to protect and ensure fulfillment of human rights, SAKA PETROL believes that we have a responsibility to respect human rights and that we can play a positive role in the communities where we operate. As stated in The SAKA PETROL Way: "We conduct our business in a socially and environmentally responsible manner, respecting the law and universal human rights to benefit the communities where we work." SAKA PETROL's Human Rights Policy focuses on treating our employees in a manner consistent with The SAKA PETROL Way, conducting security operations in a responsible manner, evaluating how our operations may impact communities and engaging with suppliers on issues related to human rights. The Board's Public Policy and Sustainability Committee monitors social, political, environmental, human rights, and public policy matters relevant to the company's activities and performance.

POLICY STATEMENT



HR POLICY

Our aim is to attract, develop, and retain the necessary talent to meet the company's objectives in a sustainable way, through a Value Proposition to the Employees with whom we maintain a relationship based on mutual respect and trust.

- Offer stimulating, challenging, and efficiency-oriented employment, promoting the implementation of new ways of working, digitalization, and a continuous process of organizational development.
- Promote ways of working that encourage active listening, innovation and collaboration, as well as the exchange of experiences and knowledge among our employees and with external collaborators, in order to evolve towards an entrepreneurial mindset.
- Guarantee equal opportunities as an aspect that distinguishes us as an integrated, diverse, and inclusive Company.
- Support our leaders to develop towards a more inspiring and innovative management style, where teams are the key players in the Company's transformation, within a leadership environment based on accountability, performance oriented, and collaboration.
- Promote professional development that drives the achievement of strategic objectives, generating a framework that favors meritocracy and the recognition of the key contributions of our professionals, responding to the different realities of the teams. We understand professional development as a continuous process of learning and improvement of capabilities, skills, and behaviors driven by our training offer and internal mobility model. This process combines an updated training offer with the implementation of the skills acquired in daily activities.

OUR COMMITMENTS



A collection of safety equipment is arranged on a dark wooden surface. In the foreground, a large yellow hard hat is partially visible. Behind it, a pair of yellow and grey work gloves lies flat. To the right, a pair of yellow earmuffs with black headbands is positioned. A pair of black safety glasses is also visible near the gloves. The scene is lit with soft, natural light, creating subtle shadows.

SAFETY AND OCCUPATIONAL HEALTH POLICY

SAFETY AND OCCUPATIONAL HEALTH POLICY

Our aim is to carry out all the company's activities preserving people's integrity and avoiding any damage to the local area and the environment, as well as to ensure a healthy and safe working environment from both the physical and emotional point of view

- Proactively manage risk in all our activities, incorporating risk management into our internal decision-making, in every process of change and throughout the entire life cycle of operations.
- Focus risk management on avoiding any harm to people and the environment, in particular the prevention of major accidents through the proper process safety management.
- Meet the legal requirements in force in each site, as well as the established internal regulations, which are elaborated considering legislative trends and international standards, as well as other commitments that the organization subscribes with its stakeholders.
- Lead the health and safety programs from the Executive Committee, being the management line responsible for applying them in its area of action.
- Provide the necessary technical and human resources, and to train all employees so that they can carry out their work in a safe and healthy manner.
- Watch over the proper use of the collective and personal protection equipment and the operating procedures to be applied.
- Continually assess new tools and technologies and incorporate those that contribute to reducing the exposure of workers to the activity's risks and the probability of suffering harm.

OUR COMMITMENTS



SAFETY AND OCCUPATIONAL HEALTH POLICY

Saka will promote and require the principles and commitments set forth in this policy to its employees and, as far as possible, to its contractors, partners, and collaborators. Regardless of position or geographic location, all employees and contractors are responsible for their own safety and health, as well as for contributing to health and safety, at both the individual and collective levels.

- Provide a healthy and safe working environment, in which everyone collaborates in a continuous improvement process to promote and protect the health and well-being of workers.
- Create the environment of trust necessary for safety information to flow with transparency in the organization, so that unsafe conditions and potential risks can be detected and corrected.
- Promote the consideration of human factors as a central element for improvement, based on the conviction that people are the ones who build safety.
- Leverage all sources of learning in the organization to prevent harm, including both the investigation of incidents and the systemic analysis of normal work practices.
- Treat human error and non-compliance as elements of organizational analysis and learning, ensuring that the correction and sanction processes do not penalize communication and reporting.
- Promote and recognize desirable safety behaviors and require individual accountability and compliance with norms and procedures.
- Involve employees, contractors, and other stakeholders in continuous improvement and in the definition of health and safety management programs and systems.

OUR COMMITMENTS





AFFILIATE-COMPANIES

sakapetrol

AFFILIATE- COMPANIES



- ☐ LAUGFS GAS
- ☐ CIRRUS OIL
- ☐ TRACK MANAGEMENT UK LTD
- ☐ MY PETROLEUM
- ☐ AYCARR
- ☐ G&G GLOBAL
- ☐ SOLUTION TRADING DEVELOPMENT
- ☐ EMPD TRADING
- ☐ AXEX
- ☐ TRUSFINCO



LAUGFS GAS

LAUGFS GAS



WHO WE ARE

LPG operations

- In the year 2001, when the government of Sri Lanka decided to liberalize the LPG industry, LAUGFS Gas commenced its operations as a humble limited liability company, with an intention of becoming the second fully-fledged LPG downstream player in Sri Lanka. In the year 2010, the company, having consolidated itself as the second player in the LPG industry decided to go public and accordingly initiated Initial Public Offering (IPO), inviting the general public to become a partner in the next level of development of the company. Today LAUGFS stand as a public-quoted business entity at the Colombo Stock Exchange (CSE) with the participation of the general public as share holders from every corner of Sri Lanka.



WHO WE ARE

LAUGFS GAS

WHO WE ARE

Storage and distribution

- Today LAUGFS holds one of the state of the art storage and filling facility at Mabima about 15km away from Colombo. The LAUGFS plant is capable of holding 3000 metric tons of LPG at any given time. Currently plans are under way to increase the capacity to 4000 metric tons by year 2017. The filling of gas into the cylinders is carried out through an automated process and the plant has the capacity to store a large amount of empty and full gas cylinders. The cylinder plant has the capacity of filling 30,000 cylinders of different sizes per day over the next 3 years scope. LAUGFS Gas has a robust dealer network presence in every part of the country. The dealer network better known as LAUGFS GAS POINT, thrives to distribute 12.5kg domestic LPG cylinders, 37.5kg industrial cylinders and other vital LPG accessories under the brand name LAUGFS. At present, the company enjoys more than 30% market share in the Domestic and Commercial sector and 60% in the Industrial bulk LPG market. In its auto gas retailing sector the company also holds a stake of 85% market share.



WHO WE ARE



LAUGFS GAS

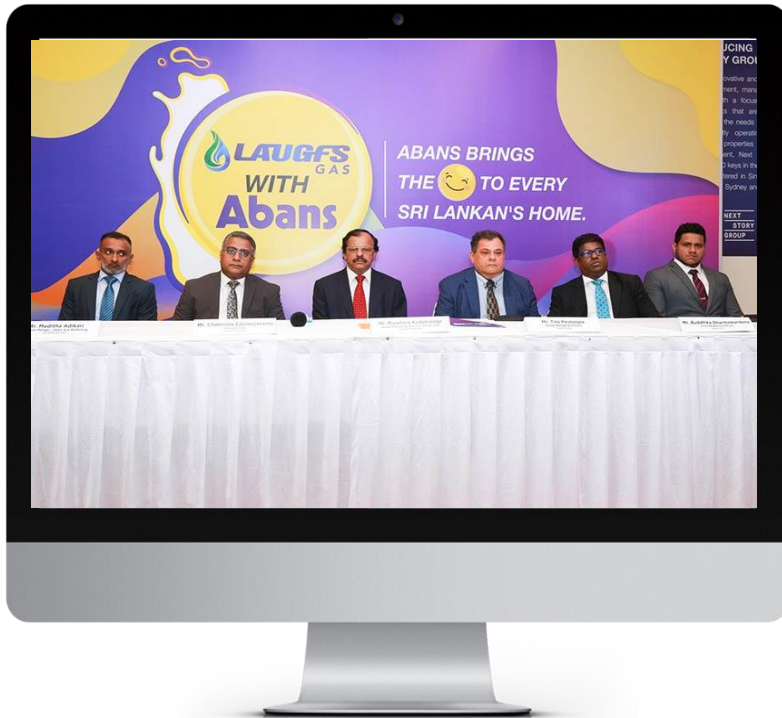


Our Strategic partners

- In January 2011, LAUGFS Gas PLC entered into a strategic partnership with the Indian government owned (Fortune 500 company) Bharat Petroleum to introduce co-branded Metal Cutting Gas product to the Sri Lankan market. Accordingly, the company introduced LAUGFS Bharat Metal Cutting Gas (LBMCG) in yellow cylinder with red band.
- As the only Sri Lankan entity in the LPG business in Sri Lanka, LAUGFS has not only shown an extraordinary growth in sales but also operates as a highly profitable marketing venture. The sales trend has shown a healthy continuous growth at a rate much faster than the average market growth rate, giving LG an ever increasing share of a fast expanding LPG market in Sri Lanka.



WHO WE ARE



LAUGFS GAS



LAUGFS at a Glance

- The remarkable growth story of LAUGFS Gas was fuelled by a relentless pursuit for success, a pioneering vision and an unyielding commitment to quality and service excellence, that have made LAUGFS a household brand synonymous with trust.
- Having entered the local LPG industry in 2001, LAUGFS Gas has grown exponentially to power the nation with trusted LPG solutions. With an expansive network of over 7000 dealers and 31 distributors throughout the country, LAUGFS Gas delivers LPG solutions that serve domestic, industrial and commercial requirements.
- Our nation-wide sales and distribution network is supported by a modern fleet of LPG tankers and a state-of-the-art 3000 MT storage and filling facility operated with the highest international safety standards.

LAUGFS GAS AT A GLANCE



LAUGFS GAS



Our Global Presence

- Today, LAUGFS Gas has become a trusted name not only in Sri Lanka, but across the region, strengthening our presence as a fast expanding energy conglomerate. LAUGFS Gas Bangladesh is one of the largest LPG downstream players in the Bangladesh market, importing, storing, bottling and distributing over 60,000 MT of LPG every year. Our maritime LPG logistics arm is operated by our own LPG vessel fleet, while we have continued to invest in strengthening our LPG infrastructure by commissioning South Asia's largest LPG Transshipment Terminal in the Hambantota International Port.

Our Mission

- To be the leader in the market segments we operate in. Introduce latest innovations, technology and solutions to add value to the consumer. Promote a 'Safety' culture, encompassing people, products and process. Ensure fair returns to all our stakeholders. Lead by example as an exemplary Sri Lankan entity.

LAUGFS GAS AT A GLANCE



LAUGFS GAS



LAUGFS TERMINALS LTD.

- LAUGFS Terminals Ltd. owns and operates the largest LPG Transshipment Terminal in South Asia with a 30,000 MT storage facility located at Hambantota International Port. With plans underway for capacity to be extended to 45,000MT, the state-of-the-art LPG terminal will support LAUGFS's rapid expansion plans to become an integrated regional LPG player in the Indian Ocean Rim area.

LAUGFS MARITIME SERVICES

- LAUGFS Maritime Services (Pvt) Ltd provides ocean freight services and related logistics to the LPG Downstream Industry in the South Asian and South-East Asian regions. Operating its own fleet of ships with Gas Challenger, Gas Success and Gas Courage, it provides logistic support for the growing local and regional LPG demand.



SUBSIDIARIES

LAUGFS GAS



LAUGFS GAS BANGLADESH

- LAUGFS Gas (Bangladesh) Ltd, formerly known as Petredec Elpiji Limited, is one of the largest LPG distributors in Bangladesh, importing and distributing over 60,000 MT of LPG every year. Having entered the local LPG downstream industry in 1997, we have grown rapidly over the years, establishing an expansive distribution network across the country with an annual turnover exceeding USD 50 million. LAUGFS Gas Bangladesh operates a world-class LPG import, bottling and distribution facility in Mongla Port with a storage capacity of 1,800 MT.

SLOGAL ENERGY DMCC

- Headquartered in Dubai, SLOGAL Energy DMCC was set up to further strengthen LAUGFS' global energy presence. With a primary focus on energy trading, SLOGAL also offers a broad portfolio of maritime services including acquiring, managing, operating and chartering of LPG vessels.



SUBSIDIARIES



CIRRUS OIL
SERVICES LTD

CIRRUS OIL

CIRRUS OIL SERVICES LTD.



WHO WE ARE

- Cirrus Oil Services Ltd (“Cirrus”) is a wholly- owned Ghanaian company incorporated in 2007. Its related companies include Woodfields Energy Resources LTD (“Woodfields”), Petroleum Hub LTD and Tel Energy LTD. Cirrus is a licensed Bulk Oil Distributor and one of the leading brands in Ghana’s downstream Oil and Gas sector. We were one of the first indigenous companies to construct and operate state of the art storage terminals in Tema and Takoradi for the distribution of Gasoil, ATK, Gasoline 95 and Gasoline 91.
- We import refined petroleum products, store and distribute to accredited OMC’s and other bulk users.
- Petroleum Hub Ltd is a 102,500mt capacity tank farm constructed in phases by our parent company - Woodfields. Phase 1, which consists of a 50,000mt gasoil storage facility, is completed, commissioned and operational. Phase 2, which consists of a 40,000mt gasoline storage facility and 12,500mt ATK tanks is expected to be completed by May 2022.



WHO WE ARE

CIRRUS OIL SERVICES LTD.



WHO WE ARE

- **OUR VISION**

- To serve our clients with the highest quality of petroleum products and services.

- **OUR MISSION**

- To create sustainable and superior value in all our business relationships and transactions.
- To be an employer of choice through a firmly established culture of openness that fosters people development and professionalism, which contributes to long term individual and organizational goals.

- **OUR PEOPLE**

- Cirrus Oil is an equal opportunity employer that employs highly skilled staff with diverse expertise and technical knowhow. Due to the dynamic leadership and consistent value creation, the company has evolved into one of the key energy trading players in Ghana through selective investments in downstream infrastructure and distribution.



WHO WE ARE

Cirrus Oil

CIRRUS OIL SERVICES LTD.



GASOIL

- Gas oil, petroleum distillate commonly referred to as diesel oil is suitable for high-speed diesel engines. This high grade imported petroleum product is supplied to Oil Marketing Companies who retail nationwide. The Mining and Transportation Industries have been identified as the largest consumers of gasoil. Product Benchmark is USLD 10ppmS FOB ARA Barge. Aside importing and selling regular gas oil for retail stations for the use in vehicles, Cirrus is also dedicated to the import and sales of; **Marine gasoil used in vessels, Gas oil to the RIGs, Gas oil to the mines.**

GS 141:2017

Petroleum and Petroleum Products - Specification for Diesel Fuel (Automotive Gasoil)

Requirements of Diesel Fuel (Gas Oil)

No.	Characteristics	Requirements	Test Method*	
1	Density at 15°C, kg / m ³ , Max.	820 - 850	ASTM D4052	
2	Distillation: Evaporation at 350 °C, % by volume, Min	85	ASTM D86	
3	Colour, Max	2, 0	ASTM D1500	
4	Flash point (pensky martens), °C, Min.	55	ASTM D93	
5	Kinematic Viscosity, 40 °C, cSt	2,0 - 4, 5	ASTM D445	
6	Carbon residue on 10% vol. distillation residue, % by mass, Max	0, 30	ASTM D189	
7	Water content	% by volume max mg/kg by mass max	0, 02 200	ASTM D6304
8	Ignition quality: Cetane Index**, Min.	46, 0	ASTM D976	
9	Total acid number, mgKOH/g, Max	0, 25	ASTM D664	
10	Ash content, % mass, Max.	0, 01	ASTM D482	
11	Total Sulphur, mg/kg, Max.	50, 0	ASTM D5453	
12	Copper strip corrosion, 3h at 100°C, Max	1b	ASTM D130	
13	Water and Sediment, % Vol., Max	0, 05	ASTM D2709	
14	Particulate Counts, Size Distribution	To be reported	ASTM D7619	
15	Particulate Matter, mg/l max	24, 0	ASTM D6217	
16	Fatty Acid Methyl Ester (FAME), %Vol., Max	5, 0	ASTM D7371	
17	Lubricity at 60 °C, (corrected wear scar diameter), microns, Max	460	ASTM D6079	
18	Oxidation Stability, g/m ³ , Max	25	ASTM D 2274	
19	Polycyclic Aromatic Hydrocarbons, % m/m	To be reported	ASTM D5186	

PRODUCT & SERVICES



CIRRUS OIL SERVICES LTD.



RESIDUAL FUEL OIL (RFO)

- Residual Fuel Oil, the most important byproduct after gas oil and gasoline, is mainly used in the diesel engines of marine ships. However, in Ghana, it is patronized by many power plants to cut the cost of imported oil. As such Cirrus Oil Services Limited, together with Woodfields Energy Resources Limited, its parent company, prides itself in ensuring that companies such as Aksa Energy Ghana always has access to the product for their business.

ISO 8217:2017
Fuel Oil Specification

RESIDUAL FUEL OIL, RFO					
PROPERTY	UNIT	REQUIREMENT	TEST METHODS		
			ASTM	IP	ISO
Density @ 15 °C	kg/m ³	925-950	D1298	160	3675
Total Sulphur	mg/kg	5000 max	D4294	336	8754
Flash Point (PMMC)	°C	65 min	D93	34	2719
Kinematic Viscosity @ 50 °C	cSt	300 max	D445	71.1	3104
Pour Point	°C	+42 max	D97	15	3016
Heat of Combustion (Gross)	kcal/g	10.2 min	D4868		
Ash Content	% wt	0.10 max			
Carbon Residue (Micro Methid)	% wt	2.8 - 3.8 max	D4530	398	
Water by Distillation	% vol	0.2 max	D95	74	3733
Water by Sediment	% vol	0.5 max	D1796		3734
Nickel	mg/kg	12 max	D5708	501	
Vanadium	mg/kg	1.4 max	D5708	501	
Iron	mg/kg	12 max	D5708	501	
Sodium	mg/kg	3 max	D5708	501	
Calcium	mg/kg	3 max	D5708	501	

PRODUCT & SERVICES



CIRRUS OIL SERVICES LTD.



GASOLINE

- Gasoline 91/Motor Gasoline (MOGAS) and Gasoline 95-Premium. These products are mainly produced for motor vehicles with internal combustion engines.
- Product Benchmark is Gasoline Prem Unleaded 10ppmS FOB AR Barge.

GS 1402:017
Petroleum and Petroleum Products - Specification for Petrol (Motor Gasoline)

GASOLINE SPECIFICATIONS				
PARAMETER	UNIT	REQUIREMENTS (Regular Grade)	REQUIREMENTS (Premium Grade)	Test Methods
Research Octane number	Min	91	95	ASTM D2599
Reid Vapour pressure	kPa, Max	65	65	ASTM D323
Distillation				
• Temperature, °C, Max for				
i) 10% evaporated		70	70	ASTM D86
ii) 50% evaporated		120	120	
iii) 90% evaporated		190	190	
• Final boiling point		210	210	
• Residue		2.0	2.0	
Aromatics	% v/v, Max	35	35	ASTM D5580
Benzene	% v/v, Max	1.0	1.0	ASTM D6277
Density at 15°C	kg/m³, Max	720 - 775	720 - 775	ASTM D4052
Total Sulphur	mg/kg, Max	50.0	50.0	ASTM D5453
Copper Corrosion, 3h at 40°C	Max	1b	1b	ASTM D130
Gum content (solvent washed)	mg/100ml, Max	5.0	5.0	ASTM D381
Lead content (Pb)	mg/l, Max	5.0	5.0	ASTM D3237
Oxidation stability at 100°C, minutes	Min	360	360	ASTM D525
Colour		Red	Green	Visual
Dye Content	mg/m³, Max	1.3	1.3	ASTM D6756
Olefins	% v/v	18	18	ASTM D6396
Oxygenates:		To be reported	To be reported	ASTM D5599
Alcohols	% v/v, Max	NIL	NIL	ASTM D5599
Esters	% v/v, Max	To be reported	To be reported	ASTM D5599
Others	% v/v, Max	To be reported	To be reported	ASTM D5599



Cirrus Oil

PRODUCT & SERVICES

CIRRUS OIL SERVICES LTD.



LIQUEFIED PETROLEUM GAS (LPG)

- LPG, an environmentally friendly fuel is used for domestic, commercial and industrial purposes. For products specifications please.

GS 535:2016 - 2nd Edn
Petroleum and Petroleum Products - Specification for Petrol (Motor Gasoline)

LIQUEFIED PETROLEUM GAS SPECIFICATIONS					
No.	PROPERTY	COMMERCIAL PROPANE BUTANE GAS MIXTURE	COMMERCIAL PROPANE	COMMERCIAL BUTANE	TEST METHOD
1	Total C1 hydrocarbons Content, mol %, max.	0	0	0	GS D2163
2	Total C2 hydrocarbons Content, mol %, max.	1.0	0	0	GS D2163
3	Total C3 hydrocarbons Content, mol %, max.	To be reported	80.0 (min)	2.0 (min)	GS D2163
4	Total propylene content, mol %, max.	To be reported	1.0 (max)	1.0 (max)	GS D2163
5	Total C4 hydrocarbons Content, mol %, max.	To be reported	2.0 (max)	95.0 (min)	GS D2163
6	Total C5 and higher hydrocarbons Content, mol %, max.	2.0	2.0	2.0	GS D2163
7	Vapour pressure at 37.8 °C, kPa (gauge), max.	900	1400	480	GSD1267 GSD2598
8	Corrosion, copper strip (1h at 37.8 °C), classification, max.	No. 1	No. 1	No. 1	GS D1838
9	Free water content (visible)	None	None	None	See 6.2
10	Total Sulphur Content, mg/kg, max.	50	50	50	GS D2784 GS D3246 GS D5453
11	Hydrogen sulphide content, mg/kg (max)	20	20	20	GS D2420
12	Mercaptan, ppm, (max.)	15	15	15	GS D5305
13	Density at 15 °C, kg/m ³	To be reported	To be reported	To be reported	GS D1657
14	95% vol. evaporated °C	+2.0 to -2	Max, 2.0	Max, 2.0	GS D1837
15	Residual matter				
15	Residue on evaporation, ml/100ml, max.	0.05	0.05	0.05	GS D2158
16	Oil stain observation (using 1.5 ml of solvent residue mixture)	Pass. (No oil ring shall persist when assessed)			GS D2158

PRODUCT & SERVICES



CIRRUS OIL SERVICES LTD.



ATK (AVIATION TURBINE KEROSENE / JET FUEL)

- Imported from the European Union, this product is mainly used by air crafts due to its unique chemical properties.

DEF STAN 91-091 Issue 9
Turbine Fuel, Aviation Kerosine Type, JET A-1
NATO Code: F-35
Joint Service Designation: AVTUR

AVIATION TURBINE KEROSENE; JET A-1			
PROPERTY	UNIT	LIMITS	TEST METHOD
APPEARANCE (Visual)		Clear & Bright	
Colour		Report	ASTM-D-156
Particulate Contamination	mg/l	1.0	ASTM-D-5452
COMPOSITION			
Total Acidity	mgKOG/g	0.015 max	ASTM-D-3242
Aromatics	% vol.	25	ASTM-D-1319
Total Sulphur	% vol.	0.3	ASTM-D-2622
Hydroprocessed & Synthetic fuel in batch	% vol.	Report	
VOLATILITY			
Initial Boiling Point	°C	Report	ASTM-D-86
10% vol. rec.	°C	205 max	ASTM-D-86
50% vol. rec.	°C	Report	ASTM-D-86
90% vol. rec.	°C	Report	ASTM-D-86
End Boiling Point	°C	300 max	ASTM-D-86
Residue	% vol.	1.5 mx	ASTM-D-86
Loss	% vol.	1.5 max	ASTM-D-86
Flash Point	°C	38 min	ASTM-D-93
Density @ 15 °C	kg/m³	840 max	ASTM-D-1298
FLUIDITY			
Freezing Point	°C	-47 max	ASTM-D-5972
Kinematic Viscosity @ 20 °C	cSt	8.0 mx	ASTM-D-4445
COMBUSTION			
Specific Energy, net	MJ/kg	42.8 min	ASTM-D-3338
Smoke Point	mm	19 min	ASTM-D-1322
Naphthalenes	% vol.	3.0 max	ASTM-D-1840
CORROSION			
Copper Corrosion (2hrs @ 100 °C)		1 max	ASTM-D-130
THERMAL STABILITY (JFTOT)			
Filter Pressure Differential	mmHg	25.0 max	ASTM-D-3241
Tube Rating (Visual)	rating	<3 max	ASTM-D-3241
"Peacock" or "abnormal" colour deposits	rating	nil	ASTM-D-3241
CONTAMINANTS			
Existing Gum	mg/100ml	7 max	ASTM-D-381
Micro Separator (MSEP-A)		70 min	ASTM-D-3948
CONDUCTIVITY			
Electrical Conductivity	pS/m	50-600	ASTM-D-2624
ADDITIVE			
Conductivity Improper (SDA)-RDE/A/621	mg/l	5.0 max	STADIS 450

PRODUCT & SERVICES



CIRRUS OIL SERVICES LTD.



BUNKERING SERVICES

- We have over ten (10) years' experience in marine and truck bunkering activities in Ghana.
- This proven track record in bunkering services has been made possible due to our strategic partnership with key players in the downstream sector in Ghana and beyond, backed by qualified staff with the requisite technical experience in the field. We meet customers' demands both onshore and offshore.
- Together with our sister company, Tel Energy (Tel), one of the top 15 Oil Marketing Companies in Ghana, we provide premium services to our offshore and onshore bunkering clients.

PRODUCT & SERVICES



CIRRUS OIL SERVICES LTD.



- **Quality**

- Cirrus Oil is ISO 9001:2015 certified

- **Environment**

- Environmental commitment and pollution prevention are a fundamental part of our business philosophy. We continuously assess the impact of our operations on the environment and ensure compliance with all laws and regulations regarding the environment.

- **Health**

- It is our policy to provide and maintain a safe work environment through harmless and ecologically friendly processes and working practices. This aims at preventing and reducing the risk of harm to our staff, stakeholders and environment.

- **Safety**

- Safety in the workplace is an integral part of the company's operating philosophy.

- **Security**

- Cirrus Oil is committed to providing a secure and sound working environment for all Staff. The procedure is aimed at providing a secure working environment by establishing and maintaining the required security measures to prevent unlawful acts, which endanger the safety and security of Staff and guest.



HEALTH & SAFETY

Cirrus Oil



TRACK MANAGEMENT UK LTD



TRACK MANAGEMENT



WHO WE ARE

- TrackMgmt is a holding company, that trades: imports, exports, markets, distributes and sales Energy Commodities like Crude Oil, Gasoline, Diesel, Jet Fuel, Biofuels, Power-to-X commodities and is planning to install a Tanker field and a Crude Oil refinery in a technology complex with an estimated area of 5 Million square meters (500 Ha – 1,235.53 Acre).



WHO WE ARE



TRACK MANAGEMENT



SUSTAINABILITY



TrackMgmt creates economic and social value and plans to realise sustainable growth. The complex is embracing the Sustainable Earthworks and Civil Engineering approach to ensure sustainable construction and maintenance of the infrastructure. We are using sustainability criteria in the design, implementation and maintenance phase of infrastructure projects.

For example, using materials with low emissions or a low environmental impact, such as recycled raw materials.

- TrackMgmt is looking to raise funds for increasing its Commodities Trading capacity and working capital, Mergers and Acquisitions and equity trading in specific target companies in the same Green Energy sector. In addition, TrackMgmt plans to purchase investment grade securities to hedge against inflation and offset interest rate risk.

SUSTAINABILITY



TRACK MANAGEMENT



SUSTAINABILITY



The Company management may, when consistent with the Company's investment objective, buy or sell precious metals (Bullion Gold, Platinum, Silver), options or futures on commodities or an index of securities, or enter into interest rate or foreign currency transactions, including swaps (collectively, commonly known as derivatives).

- TrackMgmt shows a cumulative EBITDA in excess of 2.5 Billion over a sampling of 8 years as outlined herein. Security for the investment will be a pledge of Bullion Gold with a total value of \$4.5 Billion, the Equity positions in the companies following the borrower's vertical integration, in addition to the mergers and acquisitions and trading of securities planned and the profits from the trading and commodities distribution.

SUSTAINABILITY



TRACK MANAGEMENT



Energizing a sustainable world

- We believe that remaining specialists solely dedicated to the Energy industry is absolutely key to providing everyone in the industry with the world's best workforce solutions. This is delivered by our sector teams around the globe who are focused on Oil and Gas, Technology, Renewables, Commercial, and Executive/C-suite.
- This exclusive, in-depth focus on the Energy industry is why, uniquely, we can offer the full breadth of bespoke solutions and services to meet all our clients' commercial objectives.
- We make connections with exceptional people. In a constantly evolving Energy industry, we engage the best people today to meet the energy challenges of tomorrow.
- What sets us apart is our persistence, knowledge and ambition to deliver exceptional service. And our collaborative approach to working with our clients, candidates and contractors means we have a community of experts who deliver in-depth solutions.



OUR VISION

TRACK MANAGEMENT



Our Mission

- Leading the quest to change the world as the trusted sustainability partner creating valued, single-sourced, efficient energy solutions delivered with passion, expertise, teamwork and a relentless focus on customer satisfaction.
- We deliver the right solutions to our business partners through specialist knowledge and tenacity.
- We have a strong business partnership with internal and external clients, contractors, candidates and suppliers.
- We are at the centre of a worldwide community for those with whom we do business.
- We focus exclusively on the energy sector..



OUR MISSION

TRACK MANAGEMENT



S.P.E.C.T.

- Our values guide our business to make the best decisions at an executive level and form the basis of the business culture we foster within Truck Management.
- **Specialist:** Professional, knowledgeable, committed, entrepreneurial, compliant, resourceful, high standards, subject matter experts, credible, niche.
- **Partnership** : Customer focused, accountable, ownership, integrity, trustworthy, hardworking, transparent, flexible, respectful, careful, thoughtful, honest, business-to-business, reflective, communicative.
- **Energy** : Innovative, proud of personal achievements and contribution to the business, business focused, commercial, positive, time-sensitive.
- **Community** : Friendly, welcoming, supportive, family, willing to help each other, teamwork, fun and enjoyable, collaboration, lead by example, treat others as you wish to be treated, compassionate, considerate, allow people to grow, accept and learn from mistakes, loyalty, co-operation.
- **Tenacity** : Driven, thorough, more assertive, competitive, striving for excellence, purposeful, focused, structured, proactive, forward thinking, speak up, motivated, persistent, solutions-focused, delivery is key, successful, disciplined.



OUR VALUES

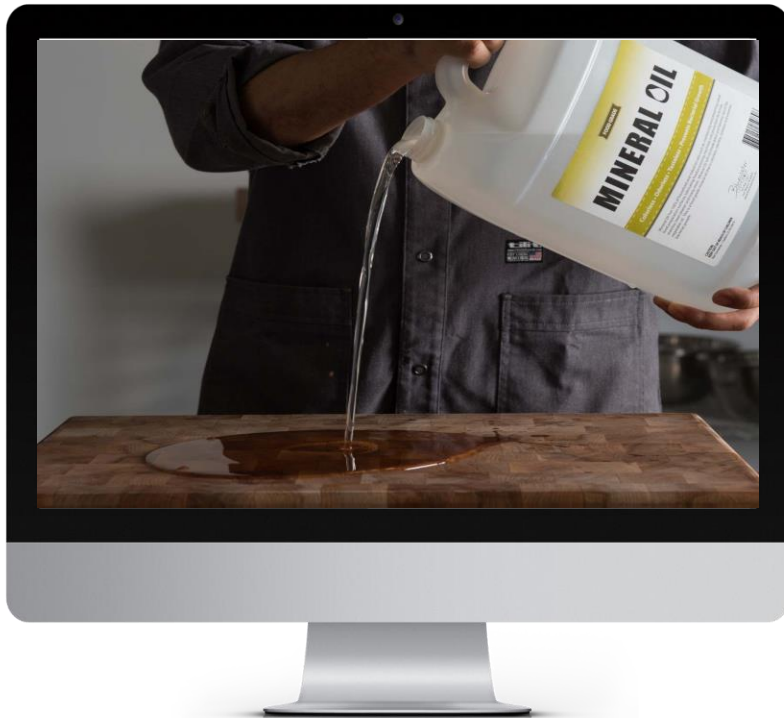


TRACK MANAGEMENT

PRODUCT



TRACK MANAGEMENT



- _____ **MINERAL OIL**
- TrackMgmt will install a 4.25 Million cubic meter tank storage capacity for its own production and for the handling of and trade in oil products.
- Fuel oil, diesel, kerosene, gasoline, naphtha and bitumen come from places such as Russia, the Baltic states, the United Kingdom and the refineries in the Mediterranean. They are largely destined for the European market, Asia and the Middle East. T
- **The complex is ideal port for oil product trade**
 - TrackMgmt location lies on the route of many international trade flows for the handling of oil products. The complex is ideal for bundling, transshipment or distributing oil products.

MINERAL OIL



TRACK MANAGEMENT



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MINERAL OIL



TRACK MANAGEMENT

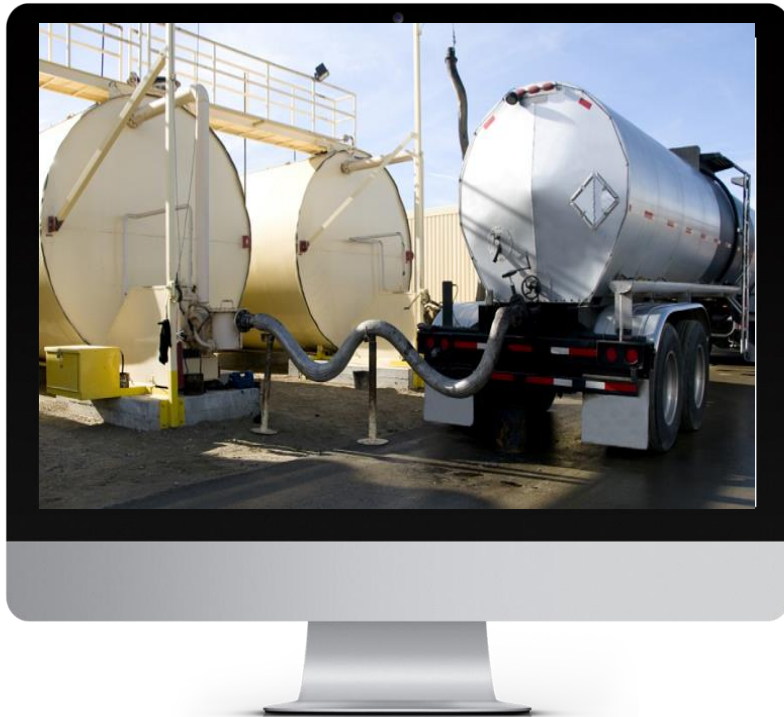


- **MINERAL OIL**
- **Storage of fuel oil, gasoline, diesel, naphtha and kerosene**
 - Tank terminals are fundamental to TrackMgmt strategy. Oil products such as fuel oil, gasoline, diesel, naphtha and kerosene can be stored in the storage tanks until they can be traded or shipped at the right price and in the right quantities. Furthermore, the fuel storage tank locations provide access via inland tankers, to a large part of the west European Union markets.
- **Ship-to-ship transfers at buoys and dolphins**
 - Besides storage and handling at the tank terminals, TrackMgmt offers safe and efficient ship-to-ship transfers. At these buoys and dolphins oil products can be transferred directly from one seagoing vessel to another or to an inland vessel and vice versa. These are flexible, efficient and risk-free ship-to-ship transfers. Vessels of all sizes can make use of the buoys and dolphins 24/7. The berths are an attractive addition to the transshipment possibilities at the terminals and are a safe alternative for ship-to-ship transfers in open sea. Buoys and dolphins are : accessible 24/7, can handle of dry and liquid bulk, bunkering, repairs, cleaning and lay-by.

MINERAL OIL



TRACK MANAGEMENT



- **LIQUID BULK**
 - TrackMgmt will store and trade different liquid bulk products. Demand, supply, import, export and production of liquid bulk products will be the main activity of the complex and deep-sea trading location for liquid bulk, such as crude oil, petrol, diesel, biofuels, liquid chemicals and edible oils and fats. In addition, the complex offers a wide range of terminals and reliable business service providers in the area.
 - **Power to X**
 - Power-to-X is an energy transformation technology that converts electricity into carbon-neutral synthetic fuels (gas or liquid) which can be stored and later used by the mobility, heating and electricity sectors. The complex is also fully committed to new forms of energy and facilities, like green “Power-to-X” fuels (green methanol, ammonia or hydrogen) or Green Bunkering. Hydrogen will become an increasingly important part of the liquid bulk sector.
 - **Supertankers**
 - The liquid bulk trading of the complex is connected to the entire world: supertankers ship liquid bulk products across the oceans to a large extent. Fuel oil from Baltic Countries , for example, finds its way to Singapore and China in Very Large Crude Carriers (VLCC). Ethanol comes from Brazil, palm oil from Malaysia and Indonesia goes to the European food industry.

LIQUID BULK



TRACK MANAGEMENT



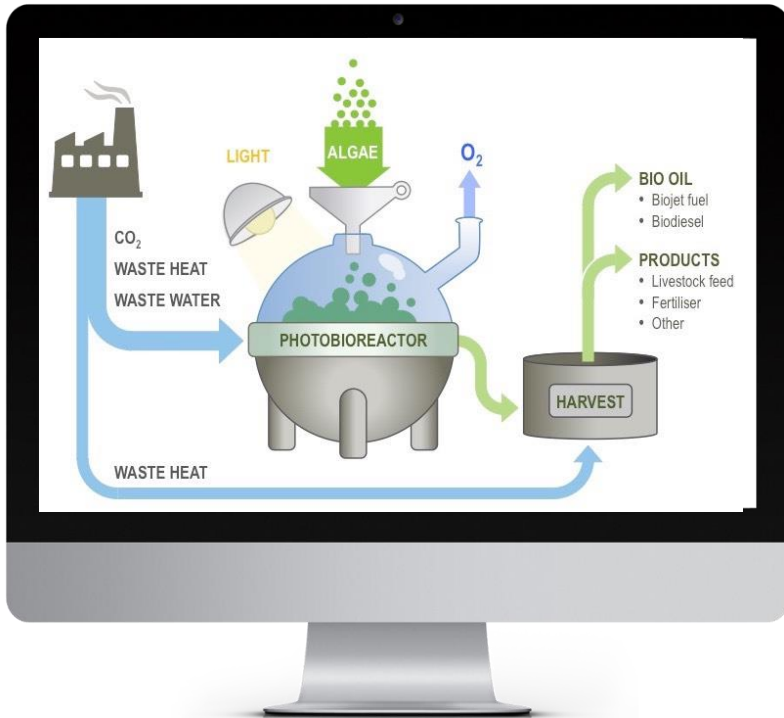
CHEMICALS

- TrackMgmt will also provide logistics link for the import, export and transshipment of chemicals to and from Europe, the Middle East, America and Asia, for Large-scale use and production of chemical feedstock, basic chemicals and semi-finished products. This ensures economies of scale in transport, storage and transshipment.
- **Storage and transshipment of chemicals**
 - Tank terminals play a crucial part in the supply of and trade in storage and transshipment of chemicals, from commodity chemicals to specialty chemicals. The complex will have a total tank storage capacity of almost 1 million m3 for diverse chemical products. Here, seagoing vessels can load and unload, and chemicals of producers and users are stored in the right conditions. Furthermore, the tank terminal will offer facilities for loading and unloading tanker trucks, inland tankers and tank wagons. Ship-to-ship transfer is also possible at the buoys and dolphins.



CHEMICALS

TRACK MANAGEMENT



BIOFUEL



In the TrackMgmt complex, the production, trade, storage and transhipment of biofuels come together. The port is ideally situated for the supply of raw materials and biofuels from around the world.

The same applies to the distribution of biofuels across Europe like biodiesel, bio-ethanol and renewable diesel. These biofuels are used for purposes such as road transport, shipping and aviation.



BIOFUEL

TRACK MANAGEMENT

TANKSTORAGE (Capacity 1 million m3)

Product	Capacity
Crude Oil	4.25
Mineral Oil Products	4.25
Chemicals	1.00
Vegetable Oils and Fats	1.00

EDIBLE OIL & FATS

- TrackMgmt will have facilities for the storage, handling and transshipment of animal and vegetable oils and fats.
- Palm oil and coconut oil arrive from Asia, soybean oil and sunflower oil from South America and rapeseed oil from Germany and Canada. The edible oils and fats will be refined in the Complex or go straight to the food and oleochemical industry in Europe.
- **Handling and storage of edible oils and fats**
- The complex will offer specialised storage and handling facilities for edible oils and fats with a total capacity of 1.0 million m3, the infrastructure will allow larger tankers to load and unload, which produces significant advantages, especially for shipments from Asia. The tank terminals have the capability to load tank trucks, but also to transfer cargo onto inland tankers and short sea vessels. Additionally, there will be buoys and dolphins that will allow ship-to-ship transfers.

EDIBLE OIL AND FATS





My Petroleum
Get My Fuel....

MY PETROLEUM



WHO WE ARE

- My Petroleum is a national energy company that specializes in the exploration, import, trade, storage, distribution, and marketing of Petrochemical products, fuels, and energy. We are the most diversified and advanced energy company engaged in the trade and selling of the most premium petroleum products and energy solutions. My Petroleum is well connected with global energy and petrochemical companies that aim to meet Pakistan's growing need for more and cleaner energy solutions with innovative methods that are economically, environmentally, and socially responsible.

WHO WE ARE





OUR GROUP

- At our group, we have the greatest number of highly skilled workers and experienced professionals working effortlessly to establish the best operating system in Pakistan in an environmentally sustainable manner to supply energy and fuels. It's a well-coordinated group of proactive workforce following our knowledge-based dynamic model of operation in the whole of Pakistan.

OUR GROUP





WHAT WE DO

- We believe in providing our customers with the best quality fuels for which we do comprehensive Research and Development, use the most advanced and progressive knowledge-based methods, machinery, and operational systems, and are always adopting innovative, scientific, systematic, and intelligent approaches to construct a highly environmentally friendly and sustainable energy future.

WHAT WE DO





VISION, MISSION & VALUES

- My Petroleum is a national energy company that specializes in the exploration, import, trade, storage, distribution, and marketing of Petrochemical products, fuels, and energy. We are the most diversified and advanced energy company engaged in the trade and selling of the most premium petroleum products and energy solutions. My Petroleum is well connected with global energy and petrochemical companies that aim to meet Pakistan's growing need for more and cleaner energy solutions with innovative methods that are economically, environmentally, and socially responsible.

**VISION, MISSION
& VALUES**



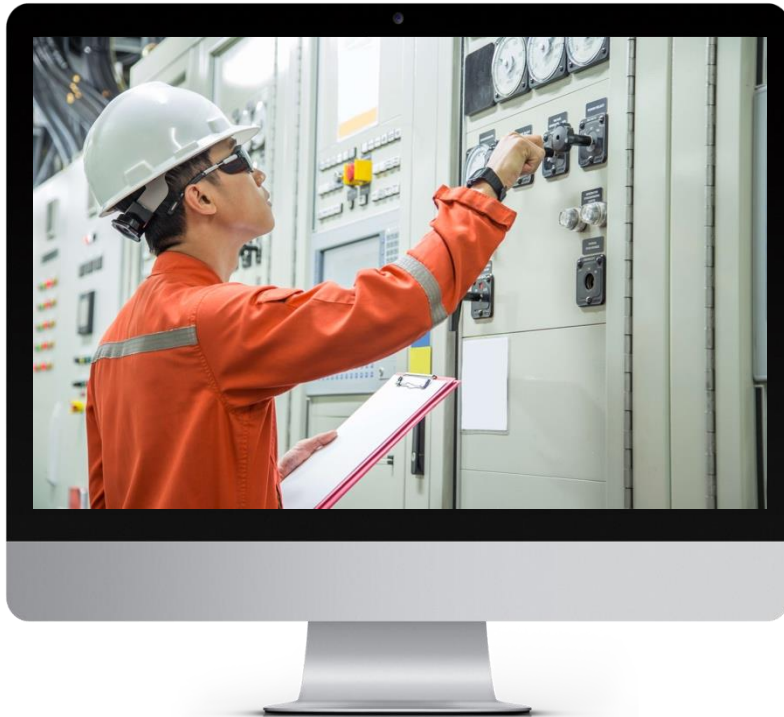


SUSTAINABILITY

- My Petroleum is redesigning old and seeking new opportunities for a stable economy with energy transition to minimize carbon emissions keeping in mind all stakeholders and the environment. As a systematic and scientific approach, our knowledge bank, collection of hourly and daily data, and assimilation with dynamic process models through innovative applications of Artificial intelligence are our most modern tools to integrate the products sale, and services for a truly sustainable business and growth within present competitive environments.

SUSTAINABILITY





QUALITY ASSURANCE

- We put quality first and believe that every step should be monitored to some level by our team. We have strict procedures for each part of the process to ensure that we meet up with all the mandates set by the concerned authority. Our company believes in following the right set of best practices that include quality assurance and regulation, which helps us reach milestones with customer satisfaction. Our Quality assurance manual covers products to services with data-based logbooks for comparative study and regular modernization.

**QUALITY
ASSURANCE**





CAREERS

- My Petroleum is a future-oriented, socially responsible, and professionally run company where we believe in values, care, responsibility, excellence, and innovation. We recognize diversity as an asset to the future of business and the country. Our people are our greatest assets, and we value their contribution to the success of our business, that's why we design an operational algorithm of business in which it's win/win for all, equal opportunity, gender equality, and promotions based on eligibilities, experience, knowledge, and passion.

CAREERS





My Petroleum
Get My Fuel....

MY PETROLEUM

PRODUCT





FUELS

- My Petroleum imports and does the wholesale distribution of a wide range of fuels for Automotive and Industrial use, including diesel, gasoline, kerosene, and aviation fuel. With easy access to the world's largest oil storage facilities, we ensure that on shipping time all our shipments reach their destination within a matter of days that's why we have our own storage tanks and transport vessels.

FUELS





FUELS

- Octane+ Euro 5 is a world-class fuel for its customers in Pakistan, which is low in sulphur and has RON 92, it improves the engine's performance and assists the car engine in working smoothly by eliminating engine emissions which further benefits the ecosystem and creates a greener and cleaner environment.
- Premier Euro 5 is the new standard for petrol engines. This premium quality brand provides exceptional performance, consumption level, and emission levels making it a superior choice for anyone who demands better fuel economy in their vehicle.
- Hi-Cetane Diesel Euro 5 is an engine fuel specifically designed for heavy-duty vehicles. We use the latest technology to ensure the highest quality diesel and we are selling it in the best possible way to give you high efficiency in compression ignition engines. It is also environmentally sustainable as it reduces SOx and NOx emissions.

FUELS





GASEOUS FUELS

- We import and wholesale distribute the best quality gaseous fuels. We also store and fill tanks of hydrocarbon gas, LPG, LNG, and other natural gas. A storage and cylinder filling plant is fully operational and expansion plans at the same facility are designed to complete in 2023.
- LPG is used as an efficient fuel container for agricultural and recreational purposes. My Petroleum is selling the best quality LPG as it is increasingly used as an aerosol propellant and refrigerant, replacing chlorofluorocarbons in an effort to reduce damage to the ozone layer.
- We have our own LPG storage tanks and three vessels for the transport of LPG in addition to chartered vessels for special needs and situations to balance the national demand. We store and distribute LPG cylinders nationwide. A new facility for cylinder filling and storage will be operative in December 2022. We're proud to be able to provide this service to our customers.

GASEOUS FUELS





ALTERNATE FUELS

- We have an alternate fuel pump facility for our customers to keep the environment sustainable that delivers all sorts of alternate fuels for a convenient and phenomenal experience for our customers.
- My Petroleum is now fully engaged in the research and development of biodiesel and alternative fuels for best quality in terms of efficiency, motor longer life, least polluting, and environmentally friendly. Our highly enthusiastic national and international scientists and experts are focused to create an easy access environment for biodiesel, the cultivation of new plants for high-fat percentage extracts to go green industrial refining for quality biodiesel and alternative fuels production. The research, development, and future production parameters are designed for true operational quality and are environmentally sustainable, reducing hydrocarbon emission as the most appropriate working relation between fuel and machine.

ALTERNATE FUELS





ALTERNATE FUELS

- **Model Farm**

- Our associate company has been working to design the best production of high-fat plants for extraction and refining. We have tested different batches of bio diesel for diesel engines and have conducted emission tests to analyze the results of diesel engine performance on blended biodiesel.

- **Promotional Activities**

- My Petroleum is involved in various promotional activities, including presentations and publications. We believe that these activities are important to the brand's overall promotional campaign.

ALTERNATE FUELS





GO GREEN

- **My Go Green programs**

- We believe that Pakistan should be a Clean and Green country where you can live with pride and great passion for your Motherland, that's why? After comprehensive scientific and systematic research, we have launched a wide range of Go Green Programs which would benefit the environment and our customers as well.

- **Fuel stations run by Solar Energy**

- My Petroleum is working tirelessly to keep our customers safe from environmental issues by installing solar panels at its fuel stations. This is a great initiative taken by our team in order to reduce our carbon footprint.

- **Alternative Fuels pumps facility (Biodiesel)**

- We have an alternate fuel pump facility for our customers to keep the environment sustainable that delivers all sorts of alternate fuels for a convenient and phenomenal experience for our customers.

GO GREEN





GO GREEN

- **Electric Car charging Facility**

- Our newly introduced electric charging facility has an astounding amount of benefits for our customers. The electric car charger would maintain the condition of your electric cars and would help the environment in being sustainable.

- **Cartage Contractors**

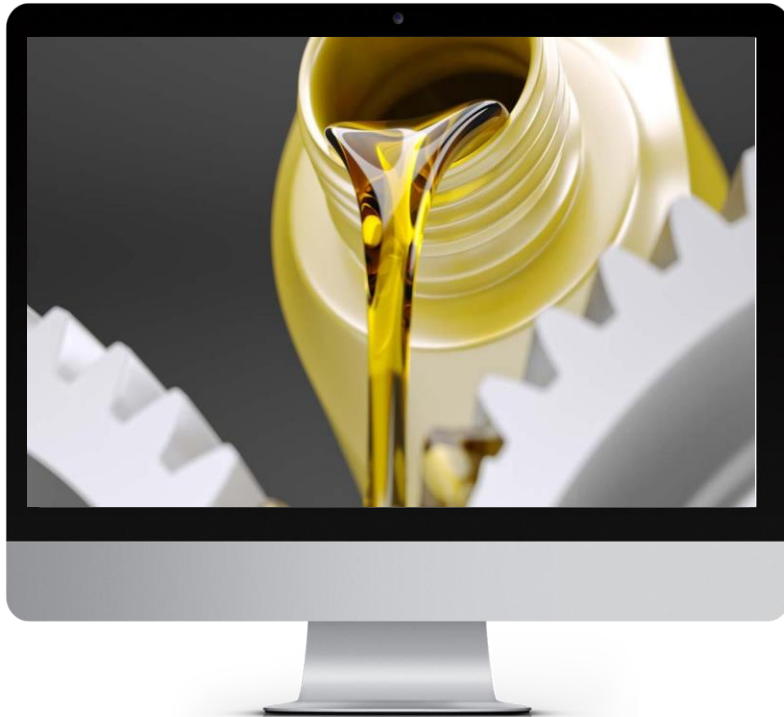
- We have exceptional cartage contractors with years of experience in managing the transportation of fuels safely and soundly to their expected destination and eliminating all sorts of unwanted incidents. These efforts by our fleet have made us leaders in the market as one of the best suppliers for compliance, response, and quick deliveries in time.

- **Conversion of Automobile cars**

- fossil fuel or gas-powered car to electric would help you save money in the long run, electric cars have a longer life than normal fossil fuel or gas-powered cars plus they are best to keep the environmental sustainability.

GO GREEN





LUBRICANTS

- Lubricant use has increased along with development in various industries throughout Pakistan, particularly in the transport sector. The lubricants we carry are of superior quality, competitively priced, and backed by excellent customer service. We believe in the quality and selection of each brand are fully tested with our expert group before placing it on sale point. The science of lubricants and friction is the hot topic at our lubricant expert desk for regular feedback to lubricant manufacturers and consumer groups.

- **Motorist**

- Our Motorist oil is formulated to provide superior protection and performance while reducing wear. Our high-quality additive package offers excellent oxidation stability, allowing your car to run at peak efficiency. Our Motorist oil is manufactured by a leading global OEM (Original Equipment Manufacturer) and approved by the most demanding automotive experts worldwide.

LUBRICANTS





LUBRICANTS

- **Motorcyclist**

- We are the best supplier of products that makes your machine run and operate better. Our extremely top-level quality Motorcyclist oil is for motorcycle engines and other vehicles, it is a high-performance advanced technology motor oil and is cost-effective too. It would assist your motor in running smoothly and operating better.

- **Heavy Vehicles**

- Heavy Vehicle Lubricants are designed to meet the needs of vehicles such as trucks, and earth-moving machinery. Our exceptional quality oil makes sure that it meets important features such as strength protection, and longevity of the engine.

LUBRICANTS





EV CHARGER

- **Electric Vehicle Charger**

- Our newly introduced electric charging facility has an astounding amount of benefits for our customers. The electric car charger would maintain the condition of your electric cars and would help the environment in being sustainable.

- **Environmental Impact**

- As sustainability is becoming mandatory to survive in this evolving world, many firms are doing efforts to do business through a pollution-free approach, and so is My Petroleum as one of the silent explorers of new methods, solutions, and products to be an added value with the help of international scientists, experts, and institutions.

EV CHARGER

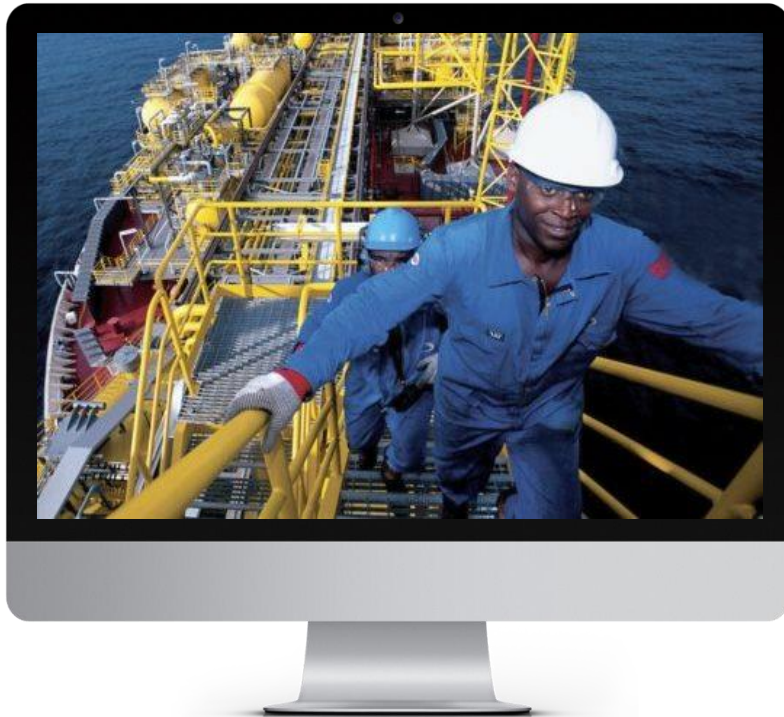




AyeCarr

AYECARR

AyeCarr



WHO WE ARE

- AyeCarr Company Ltd, ACL is a private Limited Liability Company LLC, incorporated under Ghana's company code 1963 (Act 179) in 2018. The company's authorized business activities include Oil and Gas, Mining and Mining Services including Heavy Duty Mining Equipment, Gold Trading and Project Management.
- Our team of experts and technicians have over 70 years of combined professional experience in the oil and energy sector, mining and mining services sector gold trading, and project management profession.
- ACL has established partnerships with some major global players in the various sectors of its operation across Africa. Our partnerships have enabled us to tap into various global sources, experts, and supplies and make them available to our clients.
- Our professionalism and confidentiality toward our clients have earned us numerous referrals. We work with governments across the West African region, publicly listed companies, and private businesses and project owners.



WHO WE ARE

AyeCarr



MISSION

- Create value in our sectors of operation and earn the trust of our partners and clients.

VISION

- To be a proactive energy solutions provider committed to prompt satisfaction of our customers and the creation of sustainable value for our stakeholders.

CORE VALUES

- Integrity
- Loyalty
- Reliability
- People Focus
- Solutions-oriented

MISSION & VISION



AyeCarr



OIL & GAS

- We understand the unique challenges and opportunities associated with the oil and gas industry in the West African market.
- We connect sellers across the globe to buyers in the West African region. Our goal is to empower our clients with the knowledge and insights necessary to navigate this dynamic and turbulent industry successfully.
- Whether you are an established player in the industry or a newcomer seeking to enter the market, we are available to ensure successful business transition into the market of the region.

SERVICES



AyeCarr



PROJECT MANAGEMENT

- Effective project management is critical for successful project execution. Our project management experts provide end-to-end support, overseeing all aspects of project implementation.
- We develop detailed project plans, coordinate resources, monitor progress, and ensure adherence to timelines and budgets.
- Our goal is to deliver projects on time, within budget, and to the highest quality standards.

SERVICES



AyeCarr



MINING & MINING SUPPLY SERVICES

- Our Mining activities include Exploration, Mining Services, Gold Trading and Heavy Duty Mining and Construction Equipment Supplies and leases.
- We provide expert guidance and comprehensive technical solutions for your mining and construction projects by providing you with the needed equipment.
- Our team of experienced exploration Geologists, Miners and Mining Consultants are available to assist in your mining projects ensuring maximum value for money, efficiency, compliance and sustainability.

SERVICES



AyeCarr



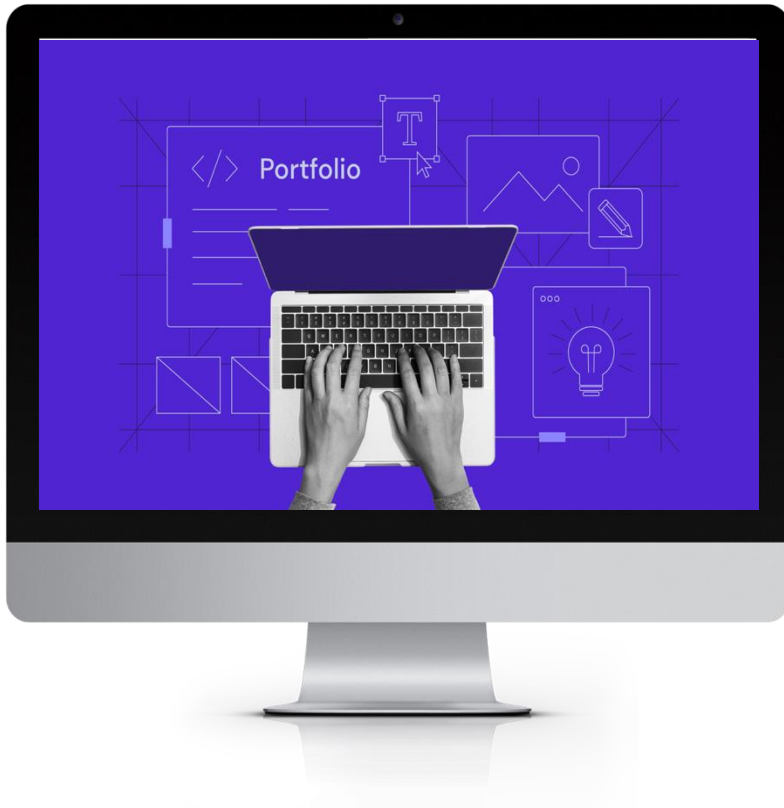
FINANCIAL FACILITATION

- Navigating the complexities of financial transactions can be challenging.
- Our financial facilitation services streamline the process, providing clients with guidance and support throughout.
- We assist in negotiations, financial structuring, and contract reviews to optimize financial outcomes.
- Our expertise in financial facilitation helps clients achieve favorable terms and secure successful financial agreements.

SERVICES



AyeCarr



• OIL & GAS

- Supply of refined petroleum products to Ghana, Burkina Faso, Sierra Leone, Liberia, Mali, and Togo
- Partner to Diamond Sky Group of Dubai in the supply of refined products to the West African markets

• MINING / GOLD

- Holds share interest in Asante Gold Corporation, a Canadian listed Company (ASE: TSE)
- Holds interest in Sonsoma Resources Ltd, A green field gold exploration in Ghana.
- Provision of financial and technical advice to mining firms in Ghana.
- Facilitates gold sales between local gold purchasers and foreign buyers.

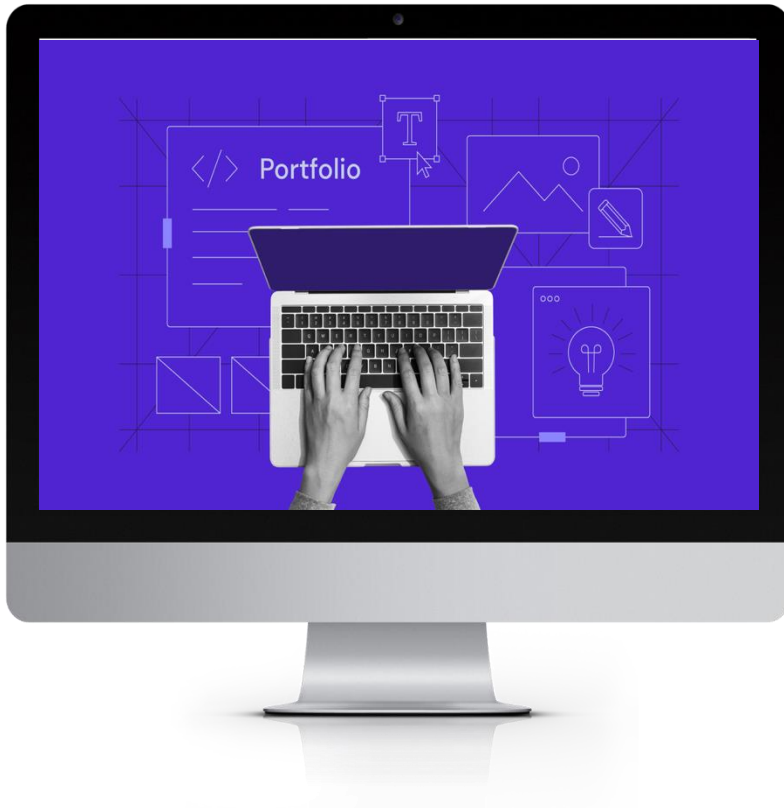
• HEAVY EQUIPMENT SUPPLIER

- Supplies of Auger, RC and Diamond Drilling machines to Toomahit Drilling Co. Ltd

PORTFOLIO



AyeCarr



- **FINANCIAL ADVISORY TO ASANTE GOLD CORPORATION**

- Supported Asante Gold Corporation to raise \$ 100 million through a forward sale of gold agreement with the Bank of Ghana.
- AyeCarr played key roles in negotiations for equity financing into the operations of Bibiani Mines owned by Asante Gold Corporation.

- **FINANCIAL ADVISORY SERVICES TO FLATC MARINE OFFSHORE OPERATIONS**

- AyeCarr is supporting FlatC Marine offshore, a local content company operating in the marine sector in Ghana to raise \$24million from TLG Capital
- AyeCarr provides continuous financial advisory services to FlatC in the context of a signed support agreement with FlatC Marine Offshore.

PORTFOLIO





G & G GLOBAL

CORPORATE INFORMATION



G & G Global Group is a multinational investment and trading company established by Amb. Abayomi Nurain MUMUNI LORD in 2003 under Nigerian law. It is active in the trade of agriculture and agricultural products, maritime transport, logistics, trading of petroleum and petroleum products, construction, technology, financial transactions and banking, and also holds a license to install communications terminals or other equipment under Nigerian communications law.

ABOUT US



CORPORATE INFORMATION



AMB. ABAYOMI NURAIN MUMUNI LORD

- Actively involved in local government and political initiatives for numerous years, with a solid understanding of security, political and economic climate, issues and needs impacting Nigeria
- Results-driven leader, with extensive background in senior-level roles across political/government and corporate sectors
- Dynamic communicator, persuasive negotiator and results-driven motivator committed to optimizing security of Nigeria and its people; credentialed Mediator and Conciliator
- Extensive academic background including multiple Masters Degrees, Post-Graduate Studies and Advanced Certificates/Diplomas in areas including Public Administration, Criminal Justice and Conflict Management, Security/Security Management, Intelligence, Counter Terrorism/Anti-Terrorism, among others
- Numerous awards in recognition of ongoing contributions to the welfare of Nigeria

**AMB. ABAYOMI
NURAIN MUMUNI
LORD**



CORPORATE INFORMATION

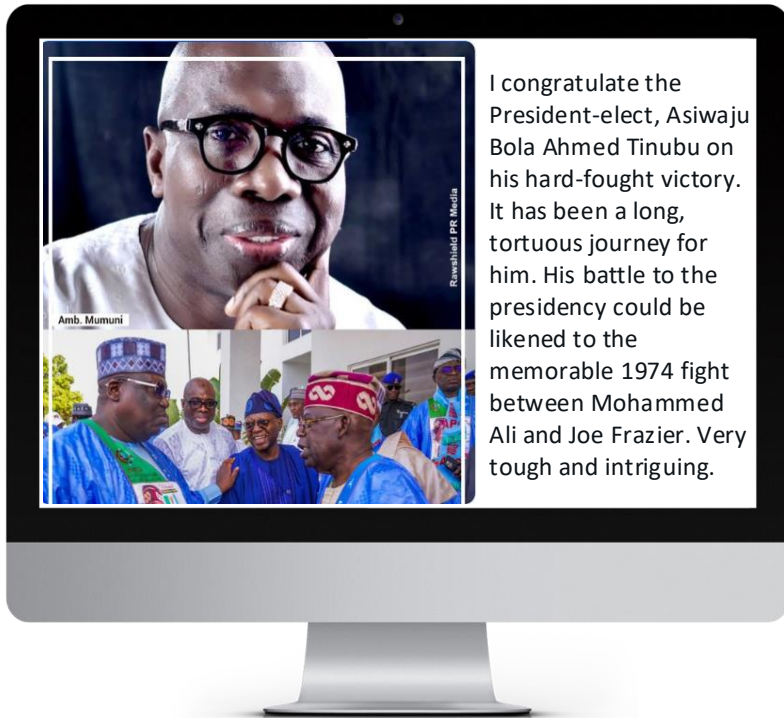


- Solid understanding of security issues ranging from Terrorism/Counter-Terrorism History, Activities and Trends, Socio-Economic Impact of Terrorism, Government Role in Security, Cross-Functional Agencies Supporting Security, Prevention and Risk Reduction Strategies for Securing Infrastructures, and Policing Strategies to Prevent and Respond to Security Issues
- Vast credentials supporting Homeland Security
 - Master Degree in Security Management
 - Postgraduate Certificate in Intelligence and Terrorism Profiling
 - Diploma in Intelligence & National Security / Post Graduate Diploma National Security
 - Certified Counter Terrorism Practitioner (CCTP)
 - Certified Anti-Terrorism Specialist-Search Advisor Practitioner (CATS-SAP)
 - Certification in Global Terrorism, Domestic, International & Transnational

**AMB. ABAYOMI
NURAIN MUMUNI
LORD**



CORPORATE INFORMATION



- Academic thesis on Global Terrorism & the Impacts on Humanity
- Academic Dissertation on Security Management

POLITICAL/GOVERNMENT APPOINTMENTS

Chartered Mediator and Conciliator; Current **Special Consultant Planning & Research**, Federal College of Complementary & Alternative Medicine of Nigeria; 2007-2011 **Governorship Candidate**, Congress for Progress Change (CPC) Lagos State; 2011

Senatorial Candidate, All Nigeria People's Party, Lagos Central Senatorial District; 2007

Honorable Special Adviser on Economic & Foreign Matters to the Executive Governor of Taraba State; 1999-2003 and 2003-2005

Senatorial Candidate, All Nigeria People's Party, Lagos Central Senatorial District; 2003

Presidential Aspirant, United Nigeria People's Party (UNPP) Presidential Aspirant; 2003

**AMB. ABAYOMI
NURAIN MUMUNI
LORD**



CORPORATE INFORMATION



- Our vision is to contribute to the sustainable development of Nigeria economy by building market businesses through our focused approach. Professional integrity in all our financial and business matters constitutes one of our core strengths.
- We believe in developing strong partnerships with local businesses. Our commitment to our partners is a core component of our success, and we continually focus on nurturing them with trust and disciplined business practices.
- Our vision is to contribute to the sustainable development of Nigeria and Africa economies by building market-leading businesses through our focused approach, and continuous enhancement of our shareholders' value.

OUR VISION



CORPORATE INFORMATION



- Guided by relentless focus on our core principles, we will constantly strive to implement the critical initiatives required to achieve our vision as well to maximize the value of the Company and aim for sustainable growth by sharing the Company's strategies with each company, moving forward together in the same direction.
- Our mission is to carry out investment's projects in the domestic and international markets in accordance with the highest global quality standards, guided by the principles of professional ethics. We draw on our strong team experience and the network of our principal investors to generate superior returns for our stakeholders.
- G&G GLOBAL aims to invest in and build a portfolio of sustainable investments, driven by established goals to build shareholder value, mindful of its social, economic and environmental responsibilities, as it remains to be committed to integrity, honesty and fairness in all dealings with its stakeholders.

OUR MISSION



CORPORATE INFORMATION



- **Integrity and Transparency.**

- We will conduct all business transactions to the highest ethical standards, always living up to commitments.

- **Humility and Perseverance.**

- We will always live up to the core values of humility and perseverance. Success will not lead to arrogance or overconfidence and setbacks will be met with perseverance and determination.

- **Communication.**

- We hold ourselves accountable to our stakeholders and sincerely accept their opinions, reflecting them in our corporate management.

- **Financial Discipline.**

- We will continue to live up to our principles of financial discipline. This will be achieved through a solid commitment to keeping the Group's entities well capitalized, maintaining a conservative financial leverage strategy and making sure all commitments are met on time.

OUR VALUES



G & G GLOBAL OIL& GAS TRADE



• OIL AND PETROLEUM PRODUCTS

- Oil and petroleum products such as gasoline, jet fuel, diesel and fuel oil are an essential part of the global energy mix today, used for transportation and by a wide range of industries. They will continue to play an important role in supporting growing global energy demand during the transition currently underway to a low-carbon economy.
- As one of the world's largest suppliers of energy, our teams have significant expertise in moving oil and petroleum products to customers around the world - safely, reliably and efficiently.
- At the heart of global supply, G &G Global connects producers and consumers of SAKA HOLDING commodities - efficiently, reliably and responsibly. Across our global network, we deploy infrastructure, logistics and our deep understanding of markets to supply the resources needed to power and build the world.
- G & G Global specialises in the complex task of supplying critical resources where and when they are needed. We are present every step of the way, from the point of production to the point of consumption, helping to make global supply chains more efficient, secure and sustainable.

OIL & GAS TRADE



G&G GLOBAL INTERNATIONAL TRADE



- **International trade**, economic transactions that are made between countries. Among the items commonly traded are consumer goods, such as television sets and clothing; capital goods, such as machinery; and raw materials and food. Other transactions involve services, such as travel services and payments for foreign patents. International trade transactions are facilitated by international financial payments, in which the private banking system and the central banks of the trading nations play important roles.
- International trade and the accompanying financial transactions are generally conducted for the purpose of providing a nation with commodities it lacks in exchange for those that it produces in abundance; such transactions, functioning with other economic policies, tend to improve a nation's standard of living. Much of the modern history of international relations concerns efforts to promote freer trade between nations. This article provides a historical overview of the structure of international trade and of the leading institutions that were developed to promote such trade.

INTERNATIONAL FOREIGN TRADE



G&G GLOBAL ENGINEERING



- **ENGINEERING, PROCUREMENT, MANAGEMENT AND LOGISTICS**

- G&G Global provides design, construction, procurement, logistics, and management (EPC) in process industries, with also mechanical installation, equipment erection for mechanical piping systems, high purity pipelines, steel structures, site tanks, fire protection systems, and engineering services to customers in a variety of markets in the field of Industrial process plants: desalination, watertreatment & sewage, semi-conductors, power stations, food & dairies, pharmaceutical, refineries, petrochemical, and fire protection systems with efficient piping design services solutions that meet international codes and standards.
- G&G Global can provide Inspection and regulation services for different project specifications.
- G&G Global is a professional manufacturer and engineering company for steel structure projects with full capability of design, fabrication and construction.
- G&G Global Engineering & Projects provides construction, piping design and engineering services to customers in a variety of markets – refinery, petrochemical, water, and industrial projects with efficient piping design services solutions that meet international codes and standards.

ENGINEERING





SOLUTION
TRADING DEVELOPMENT

SOLUTION TRADING



SOLUTION

TRADING DEVELOPMENT

LET'S SOLVE TOGETHER

ABOUT

SOLUTION TRADING DEVELOPMENT Pte Ltd.

Solution Trading Development Pte Ltd. is a Singapore based company with a subsidiary in Sri Lanka that provides professional solutions to bridge and link various stakeholders in the Commodity trading supply chain.

We have offices situated in Canada, India, Australia, Indonesia, Middle East, China, Malaysia, Bangladesh, and Africa covering the global market.

Our core team comes with 30+ years of experience in Engineering, Mining, Business, Marketing, Finance & Innovation.



USD \$100Mn

in investments

Experience

30+
Years

Operating in

10+
Countries

Solutions in

5
Main Divisions

Mithiran Kirupairajah

Chief Executive Officer

A qualified Metallurgical Engineer from highly regarded IIT university, Chennai. Mithiran is well versed with more than 35 years of experience in public and private executive corporate leadership and management in Australia.

Ming Susilo

Finance Director

A qualified accountant with more than 30 years of experience in audit and corporate finance. Ming held a number of senior executive positions in businesses with headquarters in Singapore and Indonesia, notably those in the sugar and coal-related industries.

Dr. Raja Joseph Cheng D'Silva

Director Operations

Joseph come with an extensive knowledge of the petroleum business, expertise in gold trading, and influence within the vast commodity network. He possesses a doctorate degree in Business.

Rajeev Bonney

CEO of Regional Subsidiaries & Head of Revenue for South Asia

More than 30 years of experience in leadership roles in Sri Lankan Government Ministries & private enterprises. Rajeev is well experienced, influential and respected in the trade finance industry, as well as business, administrative and bureaucratic circles.

Dr. Aziz Saka

President

Solution Trading Turkey

Redzuwan ABD

Head

Solution Trading Malaysia

Operational Divisions



Energy

Industrial & Minerals



Metals

Agriculture



Livestock Meats



SOLUTION
TRADING CORPORATION

Energy



Bridging the supply gap for rising energy demand across the board.



Decades worth of experience in the energy sector to facilitate all requirements.



Coal

- **Product:** Thermal Coal GAR 3500 to GAR 6000
- **Capacity:** 1 Million Metric Tons per month with additional capacity to expand.
- Together with our 5 partner mines, we get involved in the step-by-step process of mining & transport of quality with standard verification, certification, logistics, documentation, and financing.
- Other Products: Metallurgical Coal & Petroleum Coke.

Petroleum

- **Product :** Crude, Light Crude, Refined Petroleum, Jet Fuels & Oil from the Middle East and Venezuela.
- **Capacity:** Varying storage tank capacity on demand in Singapore, Malaysia, and Rotterdam Netherlands.
- Our current partnerships reside with Vitol Asia Pte Ltd, Chevron Singapore, K I Energy Pte Ltd, & Ceil SDN BHD (Shell & Petron Malaysia licenses)

Natural Gas

- Currently we have established networks to supply LPG and LNG to Sri Lanka and Malaysia

Industrial & Minerals



We are equipped to handle ever increasing orders in the non stop demand for growth



The finest materials for manufacturers, handled by our experts.



Clinker

- **Product** : Clinker for cement production from Egypt & Middle East
- **Capacity**: 300,000 Metric Tons per month with additional capacity expansion
- We are currently facilitated with 2 supply mines.

Silica Quartz

- **Product** : Quartz Rock & Micro silica from India & Sri Lanka
- **Capacity**: 100,000 Metric Tons per month with additional capacity expansion
- We are currently facilitated with 3 supply mines

Medical Products

- **Product** : Rapid Covid Test Kits & Other personal protective equipment from China
- **Capacity**: 5 million kits per month with an additional capacity to expansion
- Currently working in collaboration with an approved supplier to the Government of Canada

Other Products : Urea & Fertilizers, Soda Ash, Fluorspar, Timber and Waste Recycling



SOLUTION
TRADING DEVELOPMENT
123

Other Divisions



Our experience in handling precious metals ensure getting you access to robust supply chains

Highest quality produce sourced from all over South Asia and Oceania



Metals

- The team has extensive experience in Gold Trading.
- We have established supply chains for our products from Indonesia, Africa, Malaysia, and Australia.
- Our metals division is currently working with the following commodities.
 - Gold
 - Iron Ore
 - Copper
 - Lithium
 - Ilmenite
 - Steel
 - Steel Scrap

Livestock & Meats

- Our division is currently working on future markets in live exports and dressed meats.
- The sources of suppliers are from Australia, Vietnam, Philippines, India & Malaysia.
 - Chicken Legs
 - Chicken Feet
 - Chicken
 - Eggs
 - Beef
 - Poultry
 - Goat
 - Seafood

Other Divisions



▶ Helping organisations close the supply gap in response to global demand growth.

Agricultural Products

- Our agricultural products division is a specialized service offered to only a selected customer base.
- We have established supply chain partnerships with Indonesia, Malaysia, India, Sri Lanka, New Zealand, and Australia currently.
- We are currently working with the following commodities with our customers based in China.
 - Soybeans
 - Palm Oil
 - Wheat including flour and Maida
 - Tea
 - Milk
 - Wool
 - Sunflower seeds & Oil
 - Rice
 - Canola & Canola Oil
 - Sugar
 - Corn
 - Legumes

Our Commitments

Company Policies



- Equal opportunity commitment and non-discriminatory business policy based on race, religion or sex
- No workplace bullying or any sort of harassments
- Committed to the elimination of modern day slavery
- Committed to prevention and elimination of child labor
- Committed to humane animal treatments & farming
- Committed to Sustainable resource management
- Implementation of Environment management and climate change management
- Committed to Safe work environments
- Committed to the fair distribution of profits to stakeholders
- Support Wildlife conservation

Green Future & Climate Commitments

The global markets are currently in the transitional state from fossil fuels to renewables and we are fully committed to move with the markets.

We are actively seeking to expand in commodities related to;

- 01 | Solar panels
- 02 | Battery Storage and Fuel cells
- 03 | Wind Energy

Our long term focus is to be involved in Hydrogen gas generation, distribution and trading as an alternative source for energy gas.



Solution Foundation

Our board of directors and shareholders have approved the formation of **“Solution Foundation”** before the end of the year 2022.

10% of our company profits will be distributed to this foundation.

The core service area of the foundation is to provide educational pathways in basic schooling and skill improvement to socio-economically underprivileged communities around our operational countries.





EMPD TRADING



- EMPDP TRADING is a financial advisory company based in the UK focused on delivering bespoke financial products to clients worldwide, bringing together a team of highly skilled professionals specializing in financial trade and investment solutions, it can offer a truly individual and innovative approach to its' client financial needs. It will not only work tirelessly to understand their needs but will offer a transparent, clear, concise, and importantly a jargon free explanation of the methods employed to bring their requirements to fruition.

- EMPDP VISION

- EMPDP Ltd, was founded with a vision to deliver finance advisory solutions that were both bespoke and transparent offering customer-specific finance services. We strive to innovate within the finance industry and always try to supersede the expectations of our customers.
- EMPDP Ltd, are a well-recognised provider of finance consultancy services. Our experts work hard to understand your specific requirements and ensure that you get professional bespoke services delivered on a timely basis.



ABOUT US





Sheldon Lingard

CEO



Keith Callanan

Operations



Francis Nwokedi

Legal General Council



Paul Atkinson

Head of FX



Florentino Kassanje

Head of Sales Africa



Adel Qureshi

Head of MENA and ASIA

EMPDP APPROACH

honest and transparent approach to financial services, understanding client's requirements is at the heart of EMPDP's commitment to success supplying high levels of professionalism, integrity and ethics through EMPDP highly qualified team.

EMPDP EXPERTS





- **TRADE FINANCE**

- Trade finance is a general term used in relation to the financing of goods or services used in international trade.

- **LOCKBOX / ESCROW**

- Lock Box is a service provided by EMPD Trading via our associates Trade and Merchant Solutions Limited to companies for their secure receipt of payment from senders of money and the subsequent secure payment to those beneficiaries designated by the payor under specific and supervised method.

- **PROJECT FINANCE**

- EMPD offers its clients advice in the areas of project finance, proposing timely solutions from concept to implementation, building on and going beyond the traditional balance sheet basics.

EMPD SERVICES





- **FINANCIAL ADVISORY**
- EMPD provides bespoke financial advisory service to its clients with a quality of service which is built on trust and transparency.
- **LEGAL STRUCTURING**
- At setup any new business is required to choose a legal structure under which the company will operate. This structure will determine not only the type of Company but more importantly the liabilities of ownership and tax, our specialist legal associates can offer advice and planning during this period assisting in limiting any risk exposure.
- **M & A**
- Differentiating the two terms, Mergers is the combination of two companies to form one, while Acquisitions is one company taken over by the other.

EMPd SERVICES





AXEX

AXEX



Company Presentation

Success is a journey, we will carry you safely on this journey

About Us



- Since 2012, AXEX has committed to our customers and partners. As an industrial chemical supplier, we pride ourselves on having a diverse inventory that meets the needs of customers, from specialty to commodity.
- Diversity and a passion for getting every detail right allow AXEX to be a leader in the industry. Our customer relationships, quality of products and services, and integrity of our team are important to us.
- AXEX is dedicated to every customer's success, and we continually strive to innovate and grow both our people and our product while assisting customers in solving their most challenging problems. Our goal is to deliver products that meet our high standards and exceed your expectations.

AXEX all processes - including all sites - are managed systematically and efficiently with ISO 9001, ISO 14001, OHSAS 45001 and ISO 27001 . The time spent in developing and motivating HSE (Health, Safety, Environment) culture, which is one of the sine qua non of sustainable growth, will continue increasing day by day.



Vision

Being the most preferred company in our fields of activity by our customers, business partners and employees thanks to our best practice management systems, distinctive and value-added service philosophy.



Mission

Our mission is to provide value-added engineering and turnkey project services (EPC) for technologically challenging projects requiring special sector-specific expertise in our fields of activity; such as refinery, petrochemical, oil and gas, energy, pipelines and industry.

Our Offices



Safety First



HEALTH

Health is Wealth.

We are aware of the importance of health in this pandemic process that the world is going through. The health of our workplaces and employees comes first for us.

SAFETY

Stop! Think! Then act!

We attach importance to these three words, we want to add to every area of our life

ENVIRONMENT

Only One Earth.

We are aware that we are all one and live in the same world, we have responsibilities to our environment and working partners

Quality is Our Goal



QUALITY POLICY

Our goal is to exceed the quality expectations of our customers. This commitment starts with top management and extends through the entire organization. It is achieved through innovation, technical excellence and continuous improvement.

QUALITY CONTROL

We know customer expectations, we evaluate their business like our own, with our expert and competent staff at the highest quality standards. We are aware that success is not a coincidence, but the quality is a way. And we are confident that we are walking this path in the right way with the right people.



SWOT Analysis for SUCCESS



STRENGTHS

Characteristics of a business which give it advantages over its competitors

A circular diagram divided into four quadrants. The top-left quadrant is green and contains a white letter 'S'. The top-right quadrant is light blue and contains a white letter 'W'. The bottom-left quadrant is light blue and contains a white letter 'O'. The bottom-right quadrant is dark blue and contains a white letter 'T'.

S

WEAKNESSES

Characteristics of a business which make it disadvantageous relative to competitors

W

Elements in a company's external environment that allow it to formulate and implement strategies to increase profitability

OPPORTUNITIES

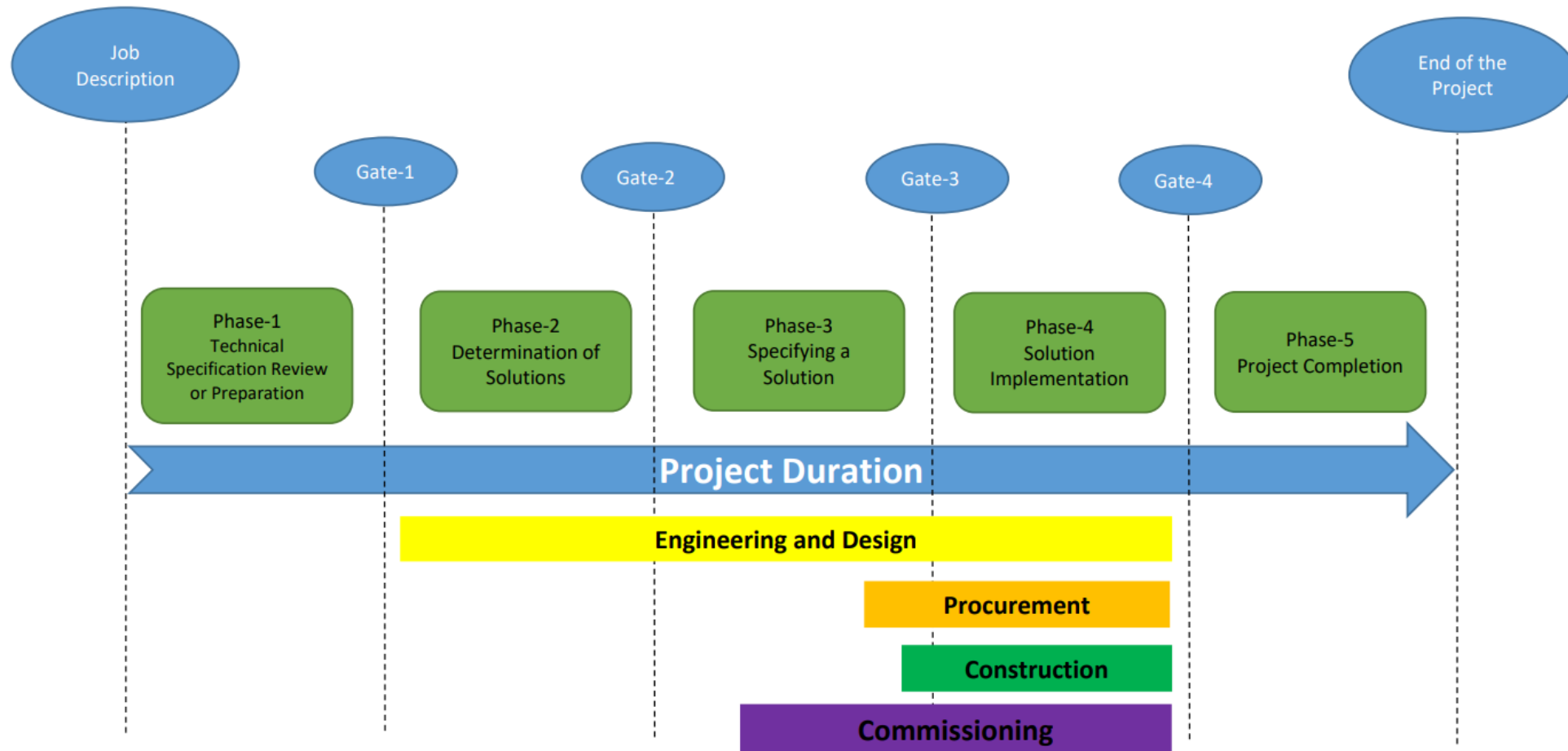
O

Elements in the external environment that could endanger the integrity and profitability of the business

THREATS

T

Project Management Services



Management Systems



- ISO 9001:2015 Quality Management Systems
- ISO 45001:2018 Occupational Health and Safety Management Systems
- ISO 14001:2015 Environmental Management Systems
- ISO/IEC 27001:2013 Information Security Management Systems



Design and Manufacturing



ASME B31.3 Process Piping

ASME B31.1 Power Piping

ASME Section VIII Rules for Construction of Pressure Vessels

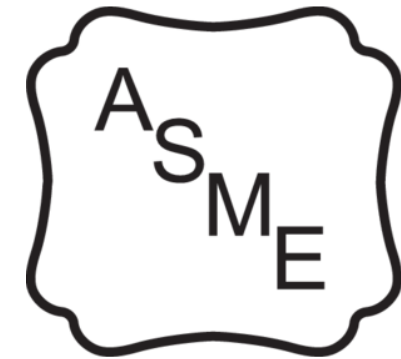
ASME Section V Nondestructive Examination

API 650 Welded Tanks for Oil Storage

EN ISO 9712 Non-destructive testing - Qualification and certification of NDT personnel

EN 13445-1 Unfired Pressure Vessels

2014/68/EU Pressure Equipment Directive



PED
2014/68/EU



“

Coming together is a beginning; keeping together is progress; working together is success.

”

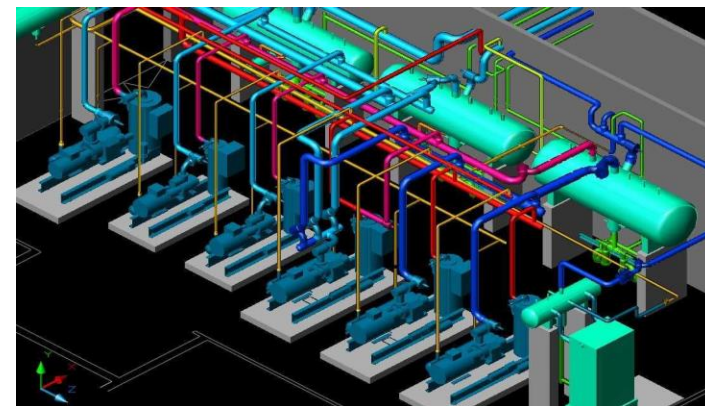
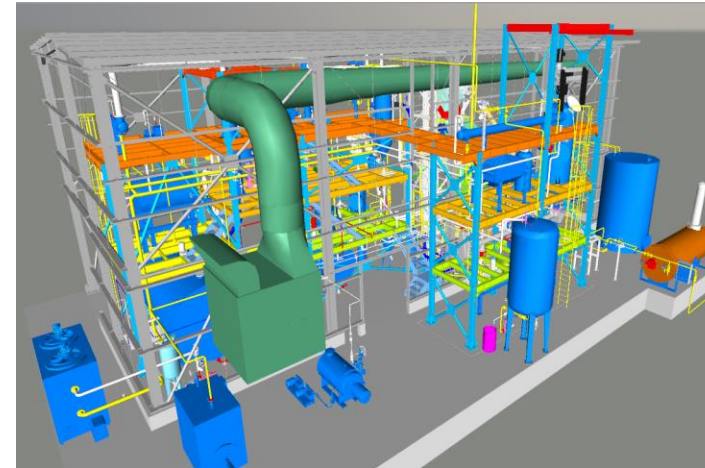
OUR SERVICES

- Engineering and Design
- Digitalization
- Procurement
- Commissioning
- Project Management
- Consultancy
- Process Piping
- Industrial Storage Tanks
- Equipment Erection and Installation
- E&I Works
- Civil Works
- Pressure Vessels

Engineering & Design



- Process Design Basis
- Process Flow Diagram (PFD)
- Piping and Instrumentation Diagram (P&ID)
- Plant Layout
- Equipment Layout
- Plant 3D Model
- Material Takeoff (MTO)
- HAZOP Study
- Functional Safety Level Study
- Quantitate Risk Assessment
- Cost Estimation
- Project Execution Plan



Engineering & Design



- Plot Plan
- Equipment Layout
- Computer Aided Design (CAD)
- 3-D modeling of Equipment and Piping
- Pipe Stress & Flexibility Analysis
- Piping Detailed Drawings (Isometrics)
- Pipe Support Design and Selection
- Material Takeoff (MTO) for Piping
- Valve List
- Equipment Datasheets
- Equipment RFPs
- Instrumentation Design Basis
- Instrument List
- Instrument Datasheets
- Instrument RFPs
- Valve Sizing
- Automation System Engineering
- I/O List
- Hook-up Diagrams
- Control System Architecture
- 3D Modeling of Cable Trays and Instrument Panels
- PLC Programming

Engineering & Design



- Geotechnical Investigation Report
- Civil, Structural Calculations
- Foundation & Concrete Structure General Arrangement Drawings (GA's)
- Foundation Drawings
- Underground Services Layout
- Cable Trench Layouts
- Final Grading and Paving Drawings
- Structural Steel Drawings and Details for Pipe racks Structures and Pipe Supports
- Buildings Architectural Drawings
- Layout Drawings for All foundations, Concrete and Steel Structures
- Civil & Structure & Architectural Shop Drawings
- Civil & Structure & Architectural Specifications
- Civil & Structure & Architectural Data Sheets
- Civil & Structure & Architectural Material Take-Off

Our Software





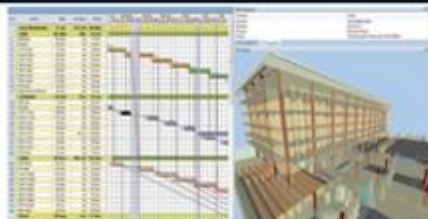
ORACLE
PRIMAVERA

AXEX

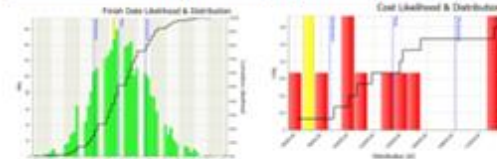
Essential planning tool



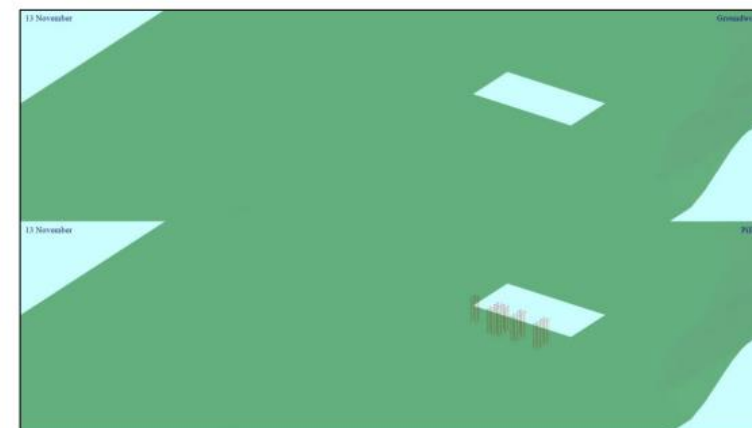
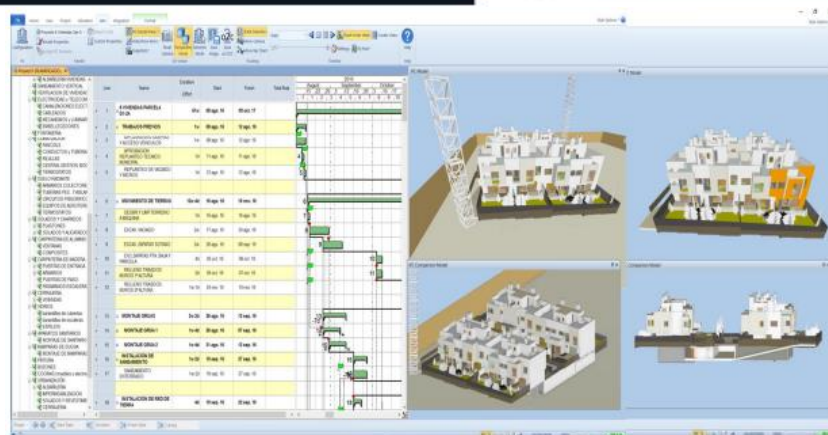
4D BIM



EVA Analysis, S-Curves, Risk Management, Line of Balance



BI Business Intelligence and Reporting



Our References

أرامكو السعودية
saudi aramco



ExxonMobil

bp



SOCAR

 **Tüpraş**



Shell

BP LNG TERMINAL DESIGN AND ENGINEERING WORKS

BP LNG Terminal Design and Engineering Works

- Engineering and Design,
- Material Supply,
- Installation and Supervision
- Commissioning Works

We provided and design and engineering team for all

Duration: 2020-Ongoing



BOTAS LNG SEND OUT CAPACITY INCREASE PROJECT ELECTRICAL & INSTRUMENTATION WORKS

Turnkey (EPC) Execution of Electrical and Instrumentation Works of Botas Send Out Capacity Increase Project

Botas Lng Send Out Capacity Increase Project

- Material Supply
- Dismantle of Existing Systems
- All Installation Works (LV, MV, Metering, Automation, Instrumentation, F&G, etc.)
- Test and Commissioning
- As-Built Drawings

We constructed all electrical and instrumentation systems of new send out capacity unit in a safely manner.

Total Man – Hour: 234000

Duration: 2019 – Ongoing



TUPRAS IZMIR REFINERY U-7000 CDU REVAMP-2 PROJECT

Tupras Izmir Refinery U-7000 Revamp Project

- Construction of main process piping and necessary pipe racks
- Civil works , fire water installation
- Drain water and water discharging system
- Electrical connection systems
- Pre-Commissioning works
- Commissioning works
- Rotating equipment erection and installation
- Furnace installation

We supplied our client all system as turnkey.
Total Man – Hour: 704.500
Duration: 2018

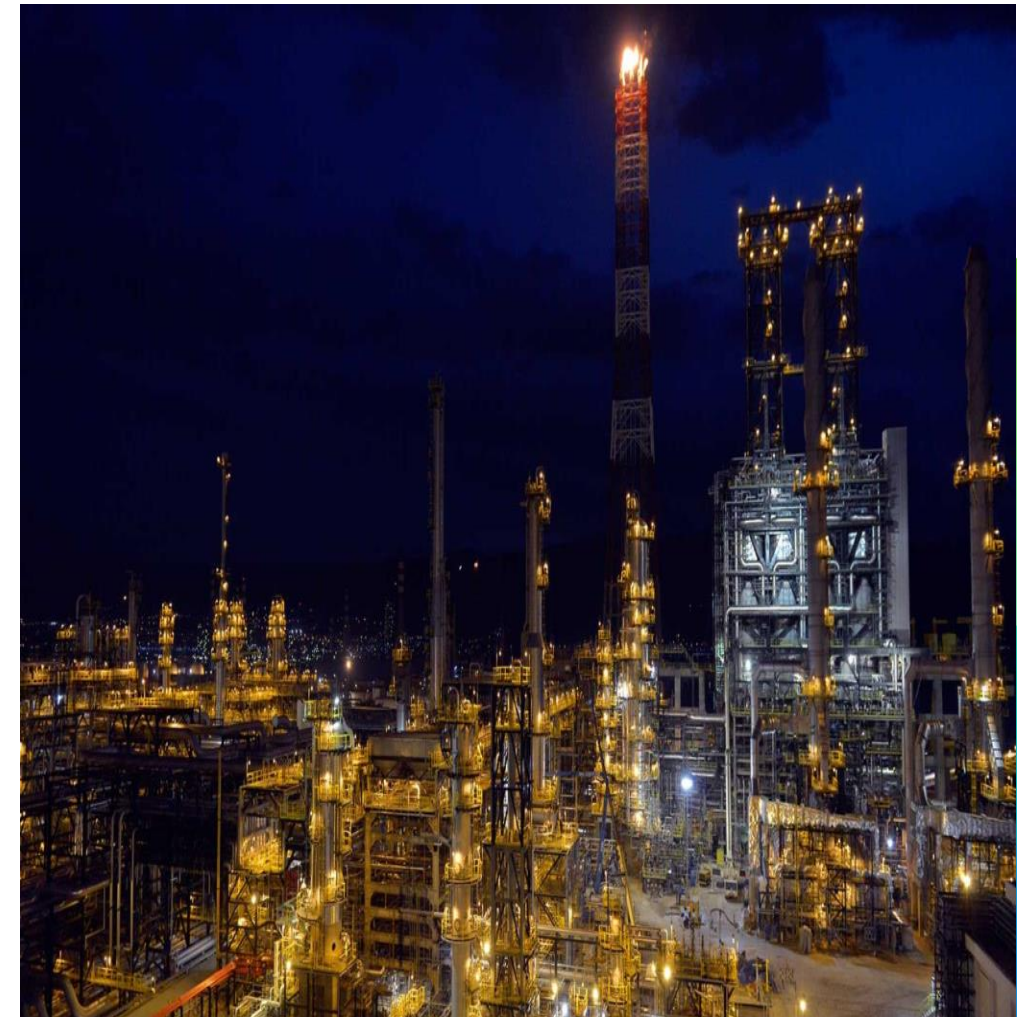


TUPRAS IZMIT REFINERY RUP TURNAROUND PROJECT MODERNIZATION

Tupras Izmit Refinery RUP Turnaround Project

- Construction of main process piping system
- Scaffolding services
- Drain water and water discharging system
- Electrical connection systems
- Pre-Commissioning works
- Commissioning works
- Rotating equipment erection and installation
- Furnace installation

We supplied our client all system as turnkey.
Total Man – Hour: 240.000
Duration: 2018-2019



BOTAŞ KUZEY MARMARA UNDERGROUND GAS STORAGE FACILITY (PHASE III) PROJECT SITE ELECTRIFICATION

158

Botas Underground Gas Storage Project

- Permit Process Management
- Engineering and Design
- Material Supply
- All Installation Works
- Test and Commissioning
- As-Built Drawings

We executed all design, supply and construct all electrical systems of new site in a safely manner.
Total Man – Hour: 2100
Duration: 2018-2019



ACWA POWER KIRIKKALE INDEPENDENT POWER PLANT (920 MW) EHT SYSTEM PROJECT

159

Kırıkkale Independent Power Plant (920 Mw) Electrical Heat Tracing Project

- Engineering and Design,
- Material Supply,
- Installation and Supervision
- Commissioning Works

We provided and constructed all electrical heat tracing system including 32.000 m heat tracing cable and power system in a safely manner.

Total Man- Hour: 5000

Duration: 2016-2017



TUPRAS IZMIT REFINERY 3-YEAR ENGINEERING AND DESIGN WORKS CONTRACTOR AGREEMENT

Tupras Refinery Long-term Electrical Works Project

- Material Supply
- Installation
- Test
- Commissioning Works

We supply and install all electrical infrastructure relevant for new investment as a long-term plant service.

Total Man-Hour: 350000

Duration: 2018 - Ongoing



TUPRAS IZMIT REFINERY PETROCOKE STORAGE CONVEYOR LINE

Tupras Izmit Refinery Petrocoke Storage Conveyor Line

- Procurement of all electrical and instrumentation equipment
- Design and assembly of exproof electrical panel
- Prepare data sheets
- Material requisition forms
- Cable routings and projects
- Electrical panel single line diagram
- Cable lists
- Cable section calculations
- All relevant technical drawings
- Other all relevant works

We supplied our client EIC system as turnkey.
Total Man – Hour: 3500
Duration: 2018-2019



TUPRAS HORIZON 2020 PROJECT: RECOVERY OF WASTE HEAT SOURCES AT LOW TEMPERATURE WITH AHT SYSTEM

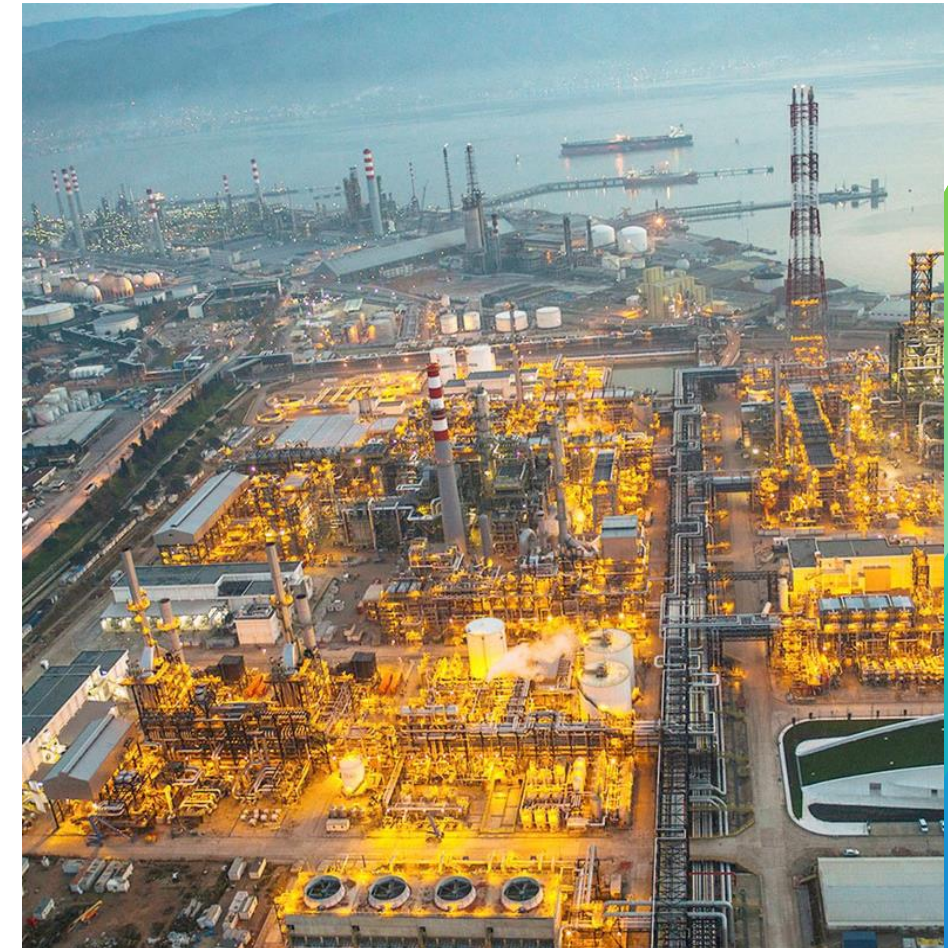
Turnkey Multidisciplinary EPC

- Engineering
- Material Supply
- Installation
- Test
- Commissioning Works

We executed as the turnkey all this time-critical EU Horizon 2020 Project.

Total Man-Hour: 6000

Duration: 2018-2019



TUPRAS IZMIR REFINERY U-7000 REVAMP PROJECT EHT SYSTEM

Tupras Izmir Refinery U-7000 Revamp Project

- Development of EHT calculation list
- Drawing of EHT lines on the isometrics
- Control of P&IDs
- Configuration of database for NGC system
- List of power cables, Cable routings and projects
- Block diagrams for power distribution, Junction boxes on layout
- As-built drawings
- Panel design, Panel FAT
- Installation, Test and Commissioning

We supplied our client EHT system as turnkey.
Total Man – Hour: 3000
Duration: 2016- 2017



SHELL REFINERY VAGON FILLING STATION PROJECT

Shell Refinery Vagon Filling Station Project

- Engineering
- Material Supply
- Installation
- Test
- Commissioning Works

We supplied our client Electrical system as turnkey.
Total Man – Hour: 11000
Duration: 2019



PETKIM IZMIR REFINERY E3 PACKAGE ELECTRICAL WORKS

Petkim Izmir Refinery E3 Package Electrical Works

- Panel design, Panel FAT
- Procurement of all electrical and instrumentation equipment
- Prepare data sheets
- Material requisition forms
- All relevant technical drawings
- Installation
- Other all relevant works

We supplied our client Electrical system as turnkey.
Total Man – Hour: 9000
Duration: 2021

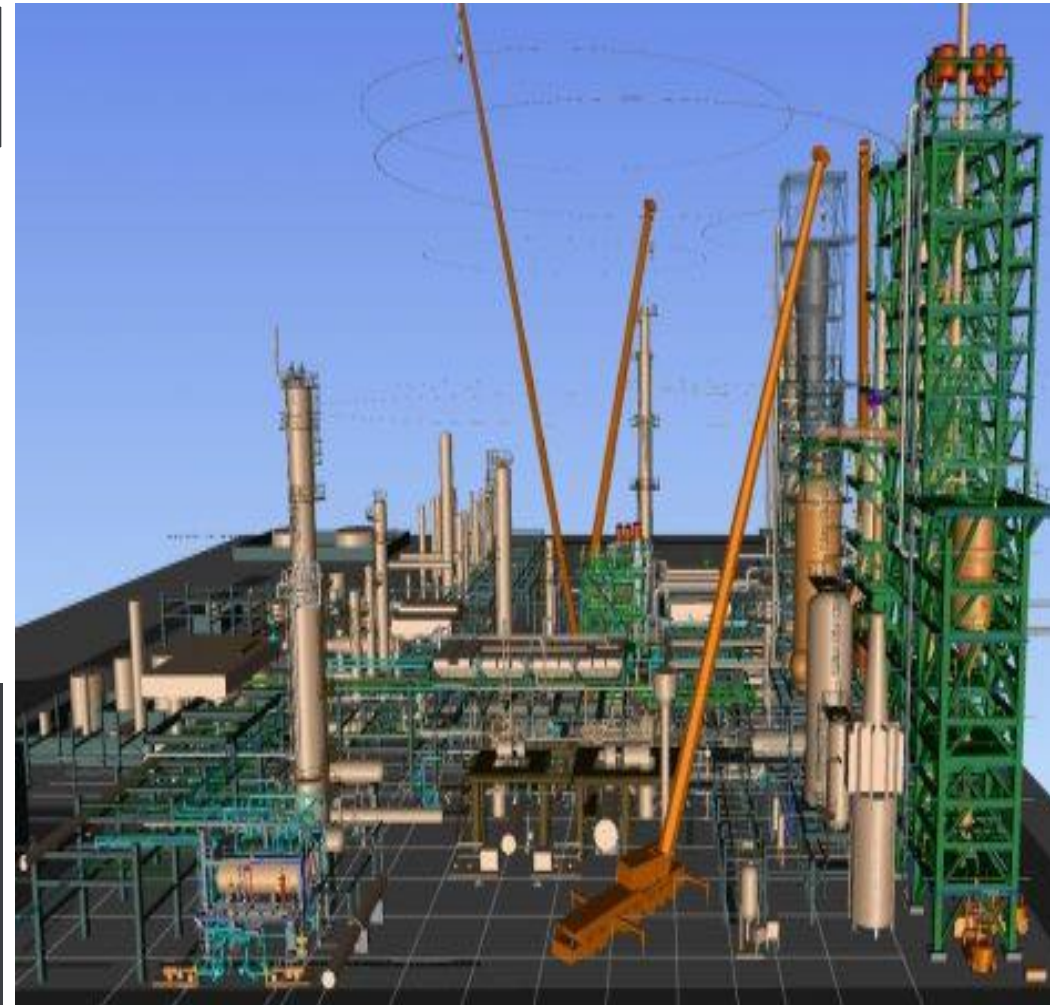


TUPRAS IZMIT REFINERY PLANT-7 FCC REVAMP DESIGN AND CONSTRUCTION WORKS

Tupras Izmit Refinery Plant-7 FCC Revamp Eht System

- Drawing of EHT lines on the isometrics
- Configuration of database for NGC system
- List of power cables, Cable routings and projects
- Block diagrams for power distribution, Junction boxes on layout
- As-built drawings
- Installation
- Test and Commissioning

We supplied our client HT system as turnkey.
Total Man – Hour: 20000
Duration: 2021- Ongoing



sakapetrol

COOPERATION





<https://sakaholding.co.uk>



<https://sakaholding.co.uk>



<https://sakaholding.co.uk>



<https://sakaholding.co.uk>

sakafinance

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sakapetrol

COOPERATION



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CIRRUS OIL
SERVICES LTD

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RENO&FINANS

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<https://kamconsultancy.co.uk>



<https://institutionvestbrasil.org>



<https://www.systemdefence.com>

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