





**ISO Certified**   
✓ ISO 9001:2015 (Quality)  
✓ ISO 14001:2015 (Environment)  
✓ ISO 45001:2018 (Occupational Health & Safety)

# Energy Solutions for Business Growth

# Innovative Engineering Company

Stark Energy Limited is an ISO 9001 (Quality), ISO 14001 (Environment), and ISO 45001 (Occupational Health & Safety) certified innovative Ghanaian engineering company focused on providing tailor-made advanced engineering solutions for the downstream, midstream and upstream oil and gas companies in Ghana and neighbouring countries. The creation of Stark Energy stems from the demand for professional business and engineering services in the area of technical design, Asset Integrity, HSEQ (Health, Safety, Environment and Quality) as well as advanced solutions in the oil and gas industry. Also, Ghanaian-owned and foreign industries are constantly seeking assistance to meet the permitting requirement of most Regulatory bodies and Stark Energy strives to aid them meet the criteria for the issuance of such Permits and Licenses. Stark Energy is licensed to provide Asset Integrity services in Ghana's upstream oil & gas sector.

Stark Energy is the country representative of MANNTEK-Sweden, ELAFLEX-Germany, PARLYM-France, DEC-OGEKO-Belgium, MARIFLEX-Netherlands, HANSACONSULT

PROJECTS – UAE, HOERBIGER-Switzerland, EM&I-UK, THE DICKERMAN GROUP OF COMPANIES – UK and TRIBOLOGIK LABORATOIRES in Ghana.

For the Upstream & Midstream Petroleum Sector and Renewable Energy Industries, in partnership with EM&I, Stark Energy provides Asset Integrity Management, Inspection, and specialised Repair & Maintenance services.

**We provide the following services for our clients:**

✓ Asset Integrity Management of Floating Production Storage and Offloading (FPSO), Mobile Offshore Drilling Units (MODUs), Floating Storage Regasification Units (FSRUs), Floating Liquefied Natural Gas (FLNG) and Onshore Petroleum Assets.

✓ Technical Consultancy Services for downstream Petroleum Processing Plants.

✓ Business Plan.

- ✓ Petroleum Licenses and Permit Documentation.
- ✓ Petroleum Plant Designs.
- ✓ Engineering software services including: DMS, PDS, SP3D, AUTOCAD, Spoolgen etc.
- ✓ Process Simulation for both 2D drafting and 3D modelling for projects.
- ✓ Health, Safety & Environment.
- ✓ Provision of PFDs, UFDs and P&IDs for Petroleum Processing Plants.
- ✓ Conceptual Design, Basic Engineering Design, Front End Engineering Design and Detailed Engineering Design.

- ✓ Energy Management.
- ✓ HAZOP (Hazard Operability Studies).
- ✓ Engineering Drawing for Petroleum Processing Plants.
- ✓ Feasibility Studies.
- ✓ Engineering, Procurement, Construction & Installation in partnership with PARLYM and DEC.
- ✓ Mobile Equipment for Hydrotesting of Petroleum Hoses.
- ✓ Assembly, Repair, Testing & Certification of Petroleum Hoses.
- ✓ Ship-to-ship transfer.
- ✓ Provision of aviation fuel handling end -to - end technical solutions.
- ✓ Provision of Aviation fuel handling trainings.
- ✓ Fabric Maintenance .
- ✓ Fluid Analysis for Machinery Diagnostics.
- ✓ Oil & Gas Asset Verification and Valuation.

# About Us

We provide bespoke engineering solutions for our clients through a systematic approach and thorough examination of our client's operations, facilities, and technologies. Based on our extensive knowledge coupled with skilled expertise in process engineering, energy management, health and safety, oil and gas services among others, we deliver the optimal and innovative solutions to ensure that the best practices are incorporated into their operations.

Our team of experts is well-versed in the provision of technical services for oil and gas processing plants; thus, we employ a unique approach in the delivery of engineering solutions that emphasizes our ability to expressly and efficiently meet the needs of our clients.

## Vision

To be the Ghanaian and West African leader in delivering tailor-made advanced engineering solutions by nurturing talented, dedicated, and committed teams that work with openness and integrity.

## Mission

Stark Energy delivers tailor-made advanced engineering solutions for the oil & gas and renewable energy industries.





# Efficient Convenient & Reliable

We deliver to you the convenience  
that provides speed and efficiency  
in your productivity

# Stark Energy Services



Consultation



Health, Safety  
& Environment



General  
Contractors  
(EPC)



Conceptual  
Designs



Engineering software  
services including:  
PDMS, PDS, SP3D,  
AUTOCAD,  
Spoolgen etc.



Process Simulation  
for both 2D drafting  
and 3D modelling  
for projects



Asset Integrity  
Management



Petroleum  
Plant Design



Feasibility  
Studies



Energy  
Management



HAZOP and  
HAZID Studies



Business  
Plan

# Stark Energy Services



Assembly of Hoses  
and Hydrotest



Petroleum  
Licenses & Permit  
Documentation



Engineering  
Drawing



Servicing of  
Valves



Ship-to-ship  
transfer



Aviation fuel handling  
end -to - end  
technical solutions



Aviation fuel  
handling trainings



Oil & Gas Asset  
Verification &  
Valuation



Fabric Maintenance



Fluid Analysis  
for Machinery  
Diagnostics

# Engineering and Technical Consultancy Services



Stark Energy provides its clients with a close support service, choice of solutions and consultancy services in the following areas:

- 1 Hazard and Operability (HAZOP) Studies
- 2 Hazard Identification (HAZID) Studies
- 3 Oil and Gas Incident Prevention Management
- 4 Systems Thinking in Organizations
- 5 Asset Integrity Management
- 6 Systems Architecture
  
- 7 OPEX Reduction
- 8 Consultation Services on Selection and Provision of Power Generators
- 9 Operations and Maintenance Policy for Optimum QoS and asset life span
- 10 Aviation technical solutions
- 11 Marine operations
  
- 12 Technical Support with Offshore Engineering services such as Design and engineering of offshore platforms, jackets and top-sides, Design, engineering and analysis of skids and modular structures , Stress and fatigue analysis of structures using finite element analysis using softwares like PDMS, STAAD-Pro, SESAM, SACS, ANSYS, MATHCAD.
- 13 Technical Support with Provision of Engineering software services including: PDMS, PDS, SP3D, AUTOCAD, Microstation, CEASAR-II, Spoolgen etc.

# Health & Safety

The ongoing industrialization of the Ghanaian economy is calling for a renewed focus on health and safety issues across various sectors of the Ghanaian economy. This rate of industrialization has called for a renewed request for business operators to take a critical look at health and safety issues across the organizational spectrum. Health and Safety, which hitherto was not such a critical subject in the Ghanaian economy, is now assuming an imperative role in Ghana. Most Ghanaian industries do not have health, safety, and environmental officers and therefore, do

not adhere to safety standards. This has resulted in an increased incidence of accidents and personal injuries at the workplace.

Stark Energy Limited has extensive experience in the development of HSE management systems, safety management policies and programs, coordinating training programs, incident investigation, auditing of management systems, and Risk assessment in the power and oil & gas sectors. In addition to this, Stark Energy helps our clients develop the following:

- 1. HSE Management Systems
- 2. HSE Policy Statement
- 3. Site Rules
- 4. Emergency Preparedness Plan
- 5. Emergency Evacuation Plan
- 6. Drug and Alcohol Policy
- 7. Personal Protective Equipment
- 8. Incident Investigation and Reporting
- 9. Oil and Gas Incident Prevention Management
- 10. Environmental and Waste Management Plan
- 11. Environmental Aspects Register
- 12. Environmental Care Policy
- 13. Safety Signs
- 14. Fire Prevention Plan
- 15. Carriage of Hazardous Goods
- 16. Risk Assessment Plan
- 17. First Aid Practice
- 18. Contractor Management
- 19. Visitors Guide



Stark Energy Limited is well positioned to assist business start-up and foreign companies with various health and safety policy options that will guarantee a safe working environment.

# Energy Audit

The utilization of energy is a key issue of interest in all industrial sectors because of its impact on the cost of production. At Stark Energy, we carry out audits on industries and facilities to ascertain the performance levels of installed equipment as well as their overall processes and respond more effectively to any identified weaknesses.

We help customers to increase the efficiency of their equipment and processes by including energy-efficient specifications such as heat recovery

options among others and identifying losses and providing solutions to minimize such losses.

Audits carried out by Stark Energy are comprehensive and help the customer/client to obtain information on their systems for the improvement of their processes. Our audits provide in-depth knowledge of energy consumption in industries, facilities, and buildings.



In addition to this, we help our clients in the development of the following:





# ⚡ Energy Management

Fluctuating fuel costs and the fuel market have undermined the efficient use of energy in most industries. At Stark Energy, we come up with energy management systems to assist businesses with the efficient use of energy. We also help businesses to maximize their profit margins through the judicious use of energy by developing and sustaining effective monitoring, reporting, and management strategies for the efficient use of energy.



Energy  
Management  
Systems



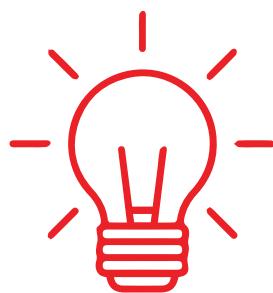
Maximize  
Profit  
margins



Strategize  
for Business  
Growth

# Business Plans, Feasibility Studies and Conceptual Design

We provide services that comprise business plans, feasibility studies and give definitive engineering direction to our clients on their intended projects. When it comes to feasibility studies, we study and evaluate the potential for success of every project and choose the best path to be followed. We can identify the types of risks facing each project by carrying out a concise risk assessment, also taking into consideration viable options for success as well as identifying project alternatives.



Our vast experience in the preparation of business plans, feasibility studies, and award-winning proposals makes us the best company to deal with.

We offer conceptual engineering services for the generation of technical solutions. Under this, we provide end-to-end engineering and design services ranging from re-design to technical documentation such as:

1. Process Flow Diagrams (PFD)
2. Piping and Instrumentation Drawings (P&ID)
3. Utilities Flow Diagrams (UFD)
4. Process Descriptions
5. Standard Operating Procedures (SOP)
6. Conceptual Design, Basic Engineering Design (BED), Front End Engineering Design (FEED) and Detailed Engineering Design (DED) of Petroleum facilities according to ASME, ANSI, API, ASTM, NFPA and BS\_EN Standards
7. Cost Estimation
8. Scheduling



# Engineering, Procurement, Construction and Installation in partnership with PARLYM and DEC

We undertake contracts in the engineering, procurement and construction of systems as well as installations for industries, commercial based centers, SME. These include:

- Selection and Installation of Energy efficient Heating System
- Selection and Provision of Cooling Systems
- Installation of Pumps, Compressors, turbines, etc.
- Insulation works
- Selection and provision Pumps and Motors

Energy Based Products and Services for Commercial business Centers, SME, Real Estates, Small Hotels, Medium Hospitals, Fast foods, Small Shopping Malls etc.

- Provision of Auto Change Over and Critical Load back up Device
- Provision and Selection of UPS systems
- Selection and Installation of Energy Efficient Refrigeration & Air conditioners (Central & Split systems)
- Provision of Installation Standards and appliance selection Services (Mechanical & Electrical)
- Provision & Selection of Voltage stabilizers

Engineering, Procurement, Construction, Installation & Commissioning of Petroleum Facilities

- Preparation of Process Flow Diagrams (PFD)
- Preparation of Piping and Instrumentation Drawings (P&ID)
- Preparation of Utilities Flow Diagrams (UFD)
- Preparation of Process Descriptions
- Preparation of Standard Operating Procedures (SOP)
- Preparation of Conceptual Design, Basic Engineering Design (BED), Front End Engineering Design (FEED) and Detailed Engineering Design (DED) of Petroleum facilities
- Petroleum facilities Construction & Commissioning Construction of AGO, PMS, LPG & base oil storage tank farms.
- Provision of Fuel Regulators (Control Devices) for LPG and Natural gas

# Stark Energy Products MannTek, ELAFLEX & Mariflex

All your needs concerning MannTek,  
ELAFLEX, and Mariflex Products





# The Sole Representative and Distributor

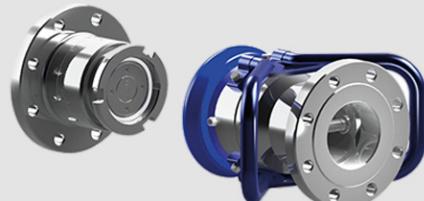
of MannTek Products in Ghana  
and neighbouring countries

 Stark  
Energy  
LIMITED **MannTek**

1

### Dry Disconnect Couplings

Dry Disconnect Couplings are the given choice for handling any liquid, chemicals, gas etc.



3

### Dry Gas Couplings

Dry Disconnect Couplings are the given choice for handling any liquid, chemicals, gas etc.



4

### Safety Break-away Couplings

Safety Break-away couplings are used to prevent pull away accidents, protect terminal and loading/unloading equipment and eliminated unwanted product release.



5

### Dry Evotek Couplings

DEC – Dry Evotek Couplings stands for another generation of dry disconnect couplings, that is specially made for use in the chemical industry.

6

### Full Flow Ball Valves

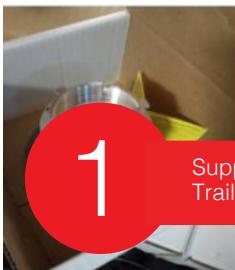
Full flow ball valves and 2-way ball valves are specially designed for handling different types of fuels such as diesel, gasoline, jet fuel etc.



SCAN for more about  
MannTek Products

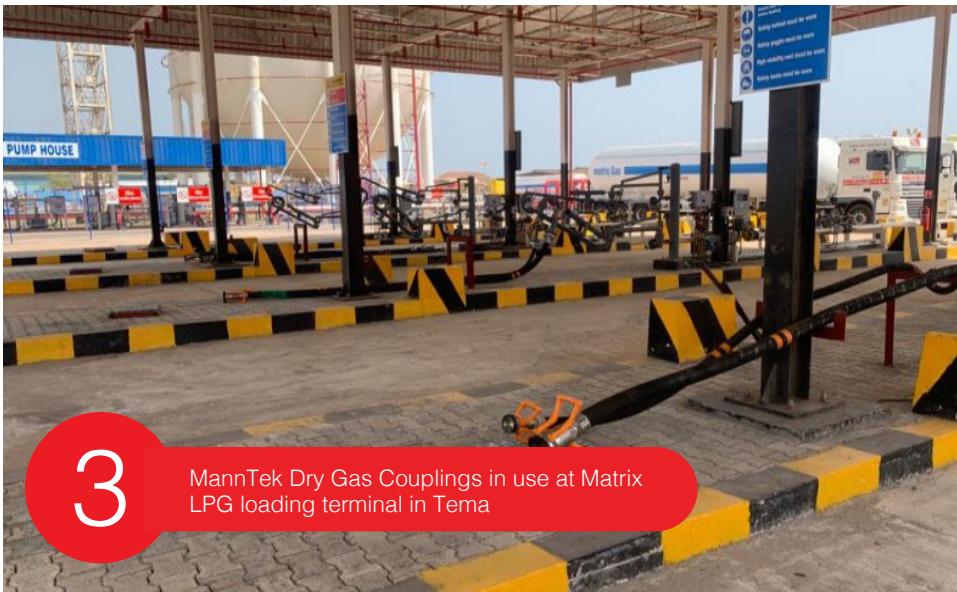


## Completed Deliveries



1

Supplied Dry Disconnect Couplings to GTS Semi-Trailers for use at the Kotoka International Airport

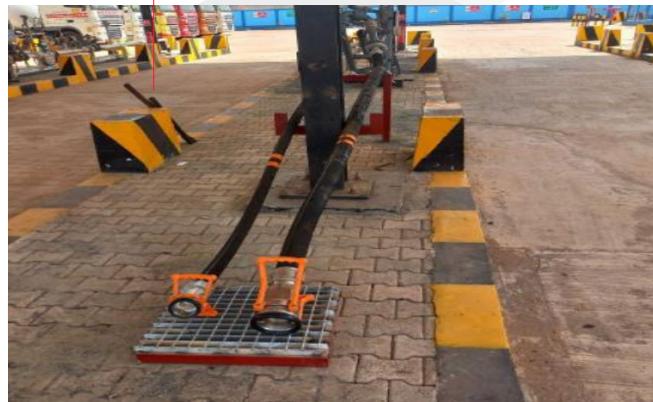


3

MannTek Dry Gas Couplings in use at Matrix LPG loading terminal in Tema

2

Dry Gas Couplings installed at all LPG Bulk Distribution Companies (Quantum, Matrix and TFC) in Ghana



4

Dry Aviation Coupling to Puma Energy for Aircraft Aviation Refueling at the Kotoka International Airport





# The Sole Representative and Distributor

of ELAFLEX Products in Ghana  
and neighbouring countries



1

## Hose Fittings

Our main strength lies in fittings for petroleum-based products and chemicals, main areas of use are in petrol stations, rail and road tankers.



3

## Nozzles + Spare Parts

Due to its modular system all major parts can be replaced. ZVA are suitable for every petrol dispenser, every hose and every vehicle filler neck. Additional retrofitting in the field is trouble free.



2

## Petrol + Chemical Hoses

With hoses from ELAFLEX you simply make the right choice. As they are used for dangerous goods we acknowledge responsibility for our products.

4

## Rubber Expansion Joints

ERV FOR FLEXIBLE CONNECTIONS.  
Rubber Expansion Joints (compensators) are used as flexible connectors within pipe systems



5

## Tank + Pipe Fittings

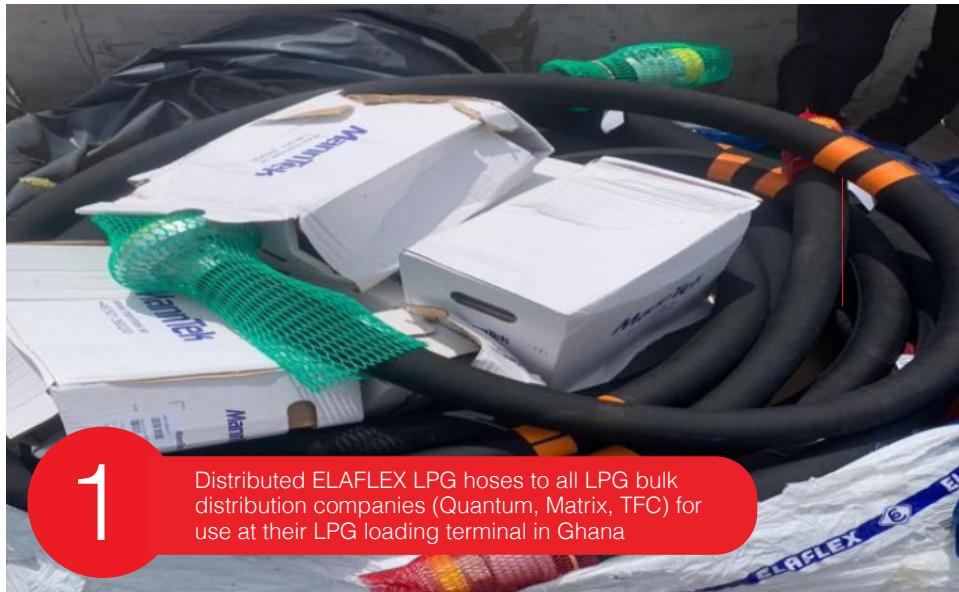
Can be mounted to hose assemblies, pipe systems, tanks and road or rail tankers. Additionally we offer a large range of adapters, caps and plugs, swivels, flanges with thread, welding flanges, sight glasses, and spare seals.



SCAN for more about  
ELAFLEX Products



## Completed Deliveries



1

Distributed ELAFLEX LPG hoses to all LPG bulk distribution companies (Quantum, Matrix, TFC) for use at their LPG loading terminal in Ghana



3

ELAFLEX Overwing ZVA nozzle delivered to JUHI - Kotoka International Airport for Aviation Aircraft Refuelling

2

Delivered ELAFLEX Composite hoses to Tema Fuel Company to be used for inter-transfer of products from one tank to another



4

Supplied LPG hoses to Tema Fuel Company to be used at their LPG loading gantry

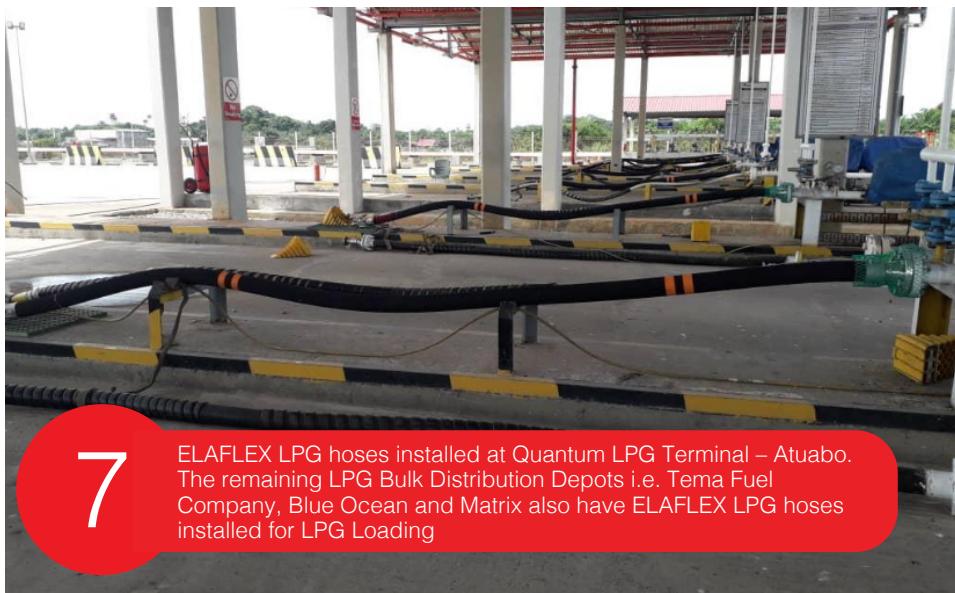


## Completed Deliveries



5

ELAFLEX hoses delivered to IBISTEK for use at Takoradi Oil Jetty



7

ELAFLEX LPG hoses installed at Quantum LPG Terminal – Atuabo. The remaining LPG Bulk Distribution Depots i.e. Tema Fuel Company, Blue Ocean and Matrix also have ELAFLEX LPG hoses installed for LPG Loading

6

Constant supply of ELAFLEX ZVA Nozzles and Safety Breakways to major service companies like Universal Engineering, Rich Morgan, and GPS Tokheim for use at TOTAL, SHELL, GOIL and other OMCs Fuel Dispensing Stations



8

Installed ELAFLEX CAMLOCK Assembly on selected Bulk Road Vehicles for TOTAL Ghana for specialized operations





# Trusted Source

of Mariflex Marine Products  
and Ship-to-ship transfer  
services in Ghana



**More than 1,000  
employees, experts in  
engineering, consulting  
and technical  
assistance.**

In order to support the energy transition by bringing together the expertise and convictions of its employees, Parlym carries out energy infrastructure projects for its clients in the nuclear, oil & gas and renewable energy sectors.



# Country Representative

OF PARLYM

## Completed EPC Projects

1

EPC, in the form of a supplier credit,  
for the construction of the multi-products  
hydrocarbon storage plant of 24,000m<sup>3</sup>



2

EPC, in the form of a supplier credit,  
for the rehabilitation and extension  
of the hydrocarbon storage plant of  
60,000m<sup>3</sup> in Yamoussoukro.



3

EPC for the construction of 4 LPG  
storage and bottling plants with two  
spheres of 2,200T each, in Mongla /  
Dhaka / Bogra / Chittagong.  
Construction of a LPG river barge  
of 300T.





# Country Representative

of Design Engineering  
& Consulting



## Completed EPC Projects

1

**PETROMAX LPG, Mongla,  
Bangladesh**

1 LPG sphere 3,000 m<sup>3</sup> & 2  
LPG spheres 4,000 m<sup>3</sup>



2

**EUROGAZ LPG – LPG import  
terminal & bottling plant, Chittagong.**

30,000 T/y 2 LPG spheres of 3,500 m<sup>3</sup>



3

**EUROGAZ LPG – LPG import  
terminal & bottling plant, Chittagong.**

1 LPG storage sphere of 3,000m<sup>3</sup>  
& 2 LPG bullet tanks of 120m<sup>3</sup> each,  
Cylinder bottling facilities, Truck loading  
post, Fire-fighting system & SCADA system.





Country  
Representative  
Of EM&I



## Completed Projects



### TULLOW's JUBILEE FPSO

- Provision of LIMPET Sea Chests Isolations.
- Remotely Operated Vehicle (ROV) Special survey of the hull and its appendages (General Visual Inspection (GVI)/Close Visual Inspection (CVI) and Angle Measurements).
- Cathodic protection Surveys.
- Isolation and monitoring of underwater penetrations and discharge lines.

1



### ENSCO 5004 FPSO – ENSCO/VALARIS

- ODIN Alternative UWILD
- ODIN Valve Isolation on Valve Repair
- NoMan Services
- Topsides Structural Inspections
- Installation of Inspection Hatches
- ODIN (Repair of jetting pipe lines)
- ODIN Inspection
- ODIN UWILD and SPS Survey

2



3

### KIZOMBA FPSO – EXXONMOBIL

- Asset integrity Management Services
- Inspection Management
- Engineering Support
- Condition Monitoring
- NDE Services - UT, MPL, LPI, Digital/Real Time Radiography
- Population of Meridium database for inspection and anomaly management
- Use of SAP for Planned Maintenance inspections and Meridium Interface
- Provision of Fabric Maintenance Services
- Cathodic Protection Surveys
- Failure Analysis
- Fitness for Service Assessments
- Rapid detection of CUI
- Caisson Cleaning and Thickness Measurement
- ODDIN UWILD

# Completed Projects



## SOYO LNG PLANT – ANGOLA

- Provision of Onshore integrity Management Services
- Development of Process Pressure Equipment Risk Based Inspection system
- Risk Based Assessment of Pressure Systems
- Corrosion Risk Assessment and Criticality Analysis
- Set-up, Population and Periodic Reviews of Integrity Database
- Development of Baseline Strategy
- Site Inspection / NDT Services
- Failure Investigation



## BLEO HOLM FPSO – BLUE WATER ENERGY SERVICES

- Provision of Integrity Management for the Hull and Topsides
- Inspection and Survey Services and Structural Repairs
- NDE Services - UT,MPL,LPI,EC,TOFD,Weld Root, Class Surveys, Mass/ CYCLOPS CCTV, MOLE
- Other Services - Structural Steel Repairs, Piping Repairs, Coating Repairs, Corrosion Protection, IGLOO Hotwork Habitats, TOPCAT Staging



## ARMADA CLAIRE FPSO – BUMI ARMADA

- Provision of Asset integrity Services
- Inspection and Survey Services
- NDE Services - UT,MPI,LPI,EC, Class Surveys
- Other Services - Structural Steel Repairs,IGLOO Hotwork Habitats
- Fitting ODDIN Access Ports
- Provision of ODDIN Valve inspection
- Inspection of Sea Chest Valve



Innovative end-to-end  
technical solutions and  
trainings for the Aviation  
fuel industry

# Country Representative

of Hansaconsult Projects  
in Ghana





**TRIBOLOGIK®**  
LABORATOIRES

Provider of lubricant testing services designed to monitor the condition of industrial, mining, and transport equipment throughout the world.

**Country Representative**  
of Tribologik laboratoires  
in Ghana



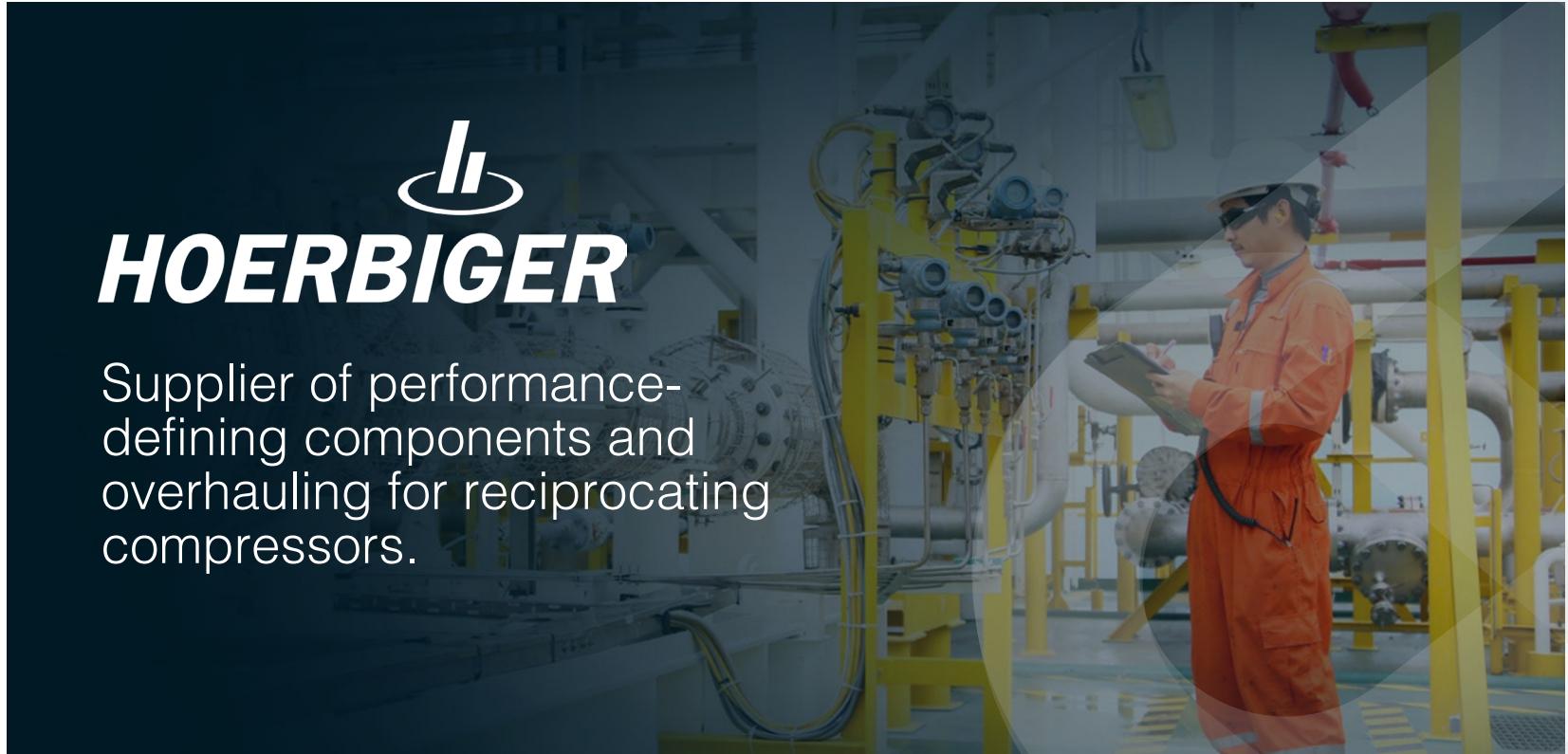
Stark  
Energy  
LIMITED



**TRIBOLOGIK®**  
LABORATOIRES



Supplier of performance-defining components and overhauling for reciprocating compressors.



# Country Representative

of Hoerbiger in Ghana





THE DICKERMAN GROUP

Provider of turnkey solutions  
in Onshore and Offshore Oil &  
Gas Maintenance, Marine, Utilities,  
Audio Visual Technology and  
Specialist PPE Supply.

# Country Representative

of The Dickerman Group  
in Ghana





# MOBILE HYDROTEST EQUIPMENT

For Hoses





## MOBILE HYDROTEST EQUIPMENT FOR HOSES

Stark Energy Limited has ventured into mobile hydrotest equipment for hoses. We have been certified by the Factories Inspectorate to conduct this hydrostatic test. The test will involve filling a hose with water and taking it to a pre-specified test pressure. While the test is going on, there are checks for leaks and expansion. After the hydrotest of a hose, there is also a test for electrical continuity to ascertain that the hoses are able to dissipate the required electrostatic charges. Every single tested hose assembly is identified with a sticker label which contains coded test date, test pressure, electrical resistance and the next test date.

This information is recorded on the test certificate issued to clients after each test. Our test is conducted with a hydraulic test pump assembly as shown below, which can generate up to 29 bar test pressure. We can guarantee that if a hose passes our test, then it is safe to use for the next six months without bursting.

Stark Energy has successfully conducted Hydrotesting, Inspection & Certification of Hoses for LPG BDCs & Depots including Tema Fuel Company, Quantum, Annadale Gas and Xpress Gas. Test Certificates as shown on the right-hand side are duly issued after completion of the Hose inspection and testing.

1. Hose hydrotest
2. Electrical Continuity test
3. Hose Sticker Label
4. Hose Certification
5. 6 months Guarantee

**ELAFLEX**  
INSPECTION CERTIFICATE 3.1  
Acc. To EN 10204:2004

**HOSE PRESSURE TEST & INSPECTION CERTIFICATE**

Client:	Xpress Gas Limited (Lomotex Gas)	Certificate Number:	STARK/INS/00029/22
	Goaso	Order No.:	STARK/ORD/00009/22
		Date:	20/09/2022

**PRODUCT DETAILS**

JOB NUMBER	STARK/ORD/00009/22/5	HOSE CODE	LPG 50
HOSE NOMINAL BORE	2"	HOSE LENGTH	8 m
FITTING 1	2" NIPPLE	FITTING 2	2" NIPPLE
TEST PRESSURE	11 barg	NORMAL OPERATING PRESSURE	7 barg
DATE OF TESTING	20/09/2022	ELECTRICAL CONTINUOUS RESISTANCE (Ohms)	03

**TEST METHOD**

HYDRAULIC TEST MEDIUM	WATER	TEST PERIOD	15 MINS
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**Pressure Test:**  
Above items were tested at 11 bar / 15 mins. Test medium water. No leakages or faults were found.

**Electrical Continuity:**  
The electrical continuity was tested. The electrical resistance between the couplings, measured at the couplings, was recorded as: 03 Ohms

**Physical Inspection:**  
Physical inspections were conducted on the hose and no visual cracks were found.

INSPECTOR NAME: THEOPHILUS KWABENA DADZIE  
SIGNATURE:

DATE: 20/09/2022

Certified by Ing. Dr. Papa Benin - GhIE Reg. #: 06559 & ASME Reg. #: 100000752  
SIGNATURE:



# Stark Energy's Projects

1

## 6,000 BPSD Akwaaba Oil Refinery Project, Ghana

Consultancy services for Akwaaba Link Investment Limited's Oil Refinery (Provision of HSE services, PFDs, P&IDs, and SOP development). Provision of all the required documentation to NPA that led to the issuance of Refinery Permit to Operate certificate.

2

## Greenwich Industries Limited Waste Lube Oil Recycling Plant, Ghana

Provision of Consultancy services for Greenwich Industries Limited – Waste Lube Oil Recycling Company. (Provision of HSE services, PFDs, P&IDs, and SOP development). Provision of all the required documentation to NPA that led to the issuance of Processing Plant Permit to operate certificate.

3

## PSB 50,000MT AGO, 30,000MT PMS and 10,000MT LPG Storage Tank Farm

Technical Services Consultants to PSB's 50,000 mt AGO, 30,000 mt PMS and 10,000 mt LPG Storage Tank Farm and Automated Loading Gantry Project.

4

## Sahara Group's 6,000mt LPG Storage Facility

Technical Services Consultants to Sahara Group-Ashrami Synergy Ltd's 6,000 MT LPG Storage Facility and Associated Loading Gantry Project.

5

## 300,000 BPSD Ada Oil Refinery

Preparation of NPA Required Documentation for the acquisition of License for the construction of a 300,000 BPSD Crude Oil Refinery at Ada, Ghana.

## Rikpat's 20 TON/HR Lube Oil Blending Plant

Stark Energy provided the following technical services; Provision of HSEQ (Health, Safety, Environment, and Quality) services and documentations, produced required documentation for the acquisition of National Petroleum Authority (NPA) License and permit for construction of the lube oil blending facility, supervised construction and installation of capital assets, provision of complete PFDs, UFDs, P&IDs, and SOPs for the entire refinery, supervised the commissioning and test run of the facility and submitted the test run to NPA and produced NPA required documentation, which led to the issuance of Permit to Operate the Lube Oil Blending Plant.

6

7

## Metka's Combined Cycle Power Plant, Ghana

Stark Energy Limited undertook HAZID Constructability Risk Assessment for the 3.5 Km Natural Gas Pipeline Construction from the VRA Natural Gas Substation to Metka's Power Plant in Tema.

## 130 MW Solar Power Plant in Ghana

Stark Energy Limited is the consultants to Orion Energy Ghana/ Petra's 130 MW Solar Power plant and provide all technical, administrative and operational support to ensure that the renewable project is developed. Stark Energy Limited will also be providing technical and operational support before, during, and after the construction of the project.

8

9

## Installation and Commissioning of Tank Gauging and Gas Detection Systems at Quantum, Tema

- Mounting of sets of tank instruments for 3 No. LPG tanks.
- Loop checking to confirm existing wiring on all terminations.
- Termination of instruments in the field and MCC room (RTU).
- Final loop checks and instruments power up.
- Functional checks and handing over.
- Submission of installation report.

**Provision of Electrical, Instrumentation, Fire and Gas Systems and SCADA Installation works at the Newgas Cylinder Bottling Plant, a subsidiary of the Quantum Group - Tema**

**10**

1. Installation of Low Voltage (LV) switch board with Automatic Transfer Switch (ATS).
2. Connection of power cables and control cables from LV Switchboard to field equipment.
3. Installation of pressure gauges, flow switch and emergency shutdown valves.
4. Installation of instrument junction box and support.
5. Installation of field Fire and Gas (F&G) devices including; Flame detectors, Gas detectors, Heat detectors smoke detectors, manual call point, beam and sounder.
6. Installation of Fire and Gas panel.
7. Connection of electric cables from F&G terminal server to field F&G devices including termination.
8. System wiring between F&G terminal server and F&G panel.
9. Installation of SCADA & KC SCADA panel.
10. Wiring and connection of cables between SCADA & KC SCADA panel.
11. System wiring between Remote Terminal Unit (RTU) terminal server and RTU.
12. Connection of cables between RTU and F&G panel.
13. Calibration of field instruments.
14. Test and inspection as per Electrical continuity check, loop check and others.

**Special Survey, LIMPET Sea Chest Isolations And Remotely Operated Vehicle (ROV) Inspection On Tullow's Jubilee FPSO, GHANA**

**11**

1. Installation of the LIMPET Sea Chest Isolations to enable maintenance work be carried out safely on the client specified Sea Chests.
2. General Visual and Close Visual Inspections of the Hull and Its appendages using an ROV.
3. Inspection and Angle Measurements of Mooring Chains.
4. Isolation of underwater penetrations (Draft Gauge Sea Water Inlet) for maintenance work to be carried out.
5. Isolation of underwater discharge lines (Boiler Blowdown) for maintenance work to be carried out.
6. Impressed Current Cathodic Protection (ICCP) Surveys.

12

HCP in partnership with Stark Energy conducted a training to provide advanced technical solutions for the aviation fuel value chain according to JIG, EI and IATA standards. All the major aviation fuel stakeholders including NPA, Total Energies, TOR, Vivo/Shell, GOIL, Woodfields, CBOD, Sentuo Oil refinery, Sahara Energy and Blue Ocean.

Manntek in partnership with Stark Energy conducted an intensive training on the repair and maintenance of dry gas couplings for the major downstream oil and gas companies. These major downstream companies includes: Tema Fuel Company, Quantum LPG , Matrix Gas, Blue Ocean, NPA, CBOD and Annadale Gas.

13

# Our Clients

- 1. Puma Energy
- 2. Zen Petroleum
- 3. Goil
- 4. Quantum Terminals
- 5. Total
- 6. Vivo/Shell
- 7. Matrix Ghana
- 8. Petrosol
- 9. Tema Fuel Company
- 10. Vana Energy
- 11. Stargas
- 12. Trade Cross
- 13. Annandale Gas Ghana
- 14. Trinity Gas
- 15. Sahara Group
- 16. GTS Trailer
- 17. BOST
- 18. Tema Oil Refinery (TOR)
- 19. METKA
- 20. IBISTEK
- 21. Tullow Oil
- 22. PSB Oil & Gas
- 23. Partnership with Association of Oil Marketing Companies (AOMC)
- 24. Partnership with Chamber of Bulk Oil Distributors (CBOD)
- 25. MODEC
- 26. YINSON



# Major Clients



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