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EXECUTIVE SUMMARY

The instauration of a democratic system of government in the federal republic of Nigeria in 1999 opened the country for several forms of investment. This has engendered more opportunities in the Oil & Gas sector, in which serious and committed companies thrive and succeed. This is believed to have stimulated the private sector and huge participation of privately owned companies in growing the economy. Participation of new entrants and most especially indigenous companies, under the framework of the Nigerian content Act is being encouraged to promote an economy that is not only vibrant but inclusive. This has served as a springboard for the development of indigenous companies as professionals with extensive experience in Business & Corporate Strategy, Finance, Project Management, Management Consultancy and Supply Chain Management have pulled together intellectual resources to create a corporate organization whose dedication is to provide the Nigerian Oil & Gas and allied industries with the much needed local participation thereby increasing local content. African Star Energy Services Limited aims to be a significant player in the Oil & Gas in Nigeria and the West coast of Africa by her value proposition in Engineering, Procurement & Construction (ECP).

MISSION STATEMENT

AS Energy Services is an indigenous oil and gas Services Company. Our sole aim is to provide quality and unrivaled service to the Oil & gas and allied industries.

LOCATION

AS Energy Services is located in Port Harcourt known to be the hub of oil exploration in Nigeria. From our Port Harcourt base, we are able to coordinate our activities to reach all over the Niger Delta region and beyond.

SERVICES

We offer a range of high quality professional services to meet the ever-increasing demands within the industry. AS Energy Services is a force to reckon with in the field Glass Fibre Reinforced Epoxy (GRE), Carbon Steel, Stainless Steel, Cupper Nickel piping/spooling systems, Process and pipeline management. In addition, we are major suppliers of materials and equipment to both the upstream and the downstream wings of the oil & Gas industry.

Our main services include the following:
Glassfibre Reinforced Pipe Systems

A reliable pipe infrastructure is essential for every modern industrial process and every interruption caused by either failure or maintenance leads to further costs. Liquids & gases must therefore be conducted from source to destination without interruptions. Conventional materials such as steel and concrete, which do not perform well under damp condition, saltwater, contaminated soil or corrosive media require expensive maintenance and still present an environmental hazard when leak occurs. With successful application of Our Glass fiber Reinforced Epoxy Pipe systems in use since almost 40years, we have completely erases these problems to the ultimate satisfaction of our esteemed clients.
We provide bundled and complete solutions ranging from engineering design, manufacture, prefabrication of spools and supports, site installation of spools & supports related to glass fibre reinforced epoxy (GRE), polyester (GRP) and vinyl ester pipe systems. Applications include:

- Flow lines for oil wells
- Hydrocarbon transmission
- Injection lines, chemical lines, fire water mains
- Sea water cooling lines
- Tubes for coring
- Floats for dredging

Instead of separate components, we also construct GRE pipe systems from prefabricated pipe sections. These are tailor made and include bends, branches, reducers, flanges, etc.

GRE technology has been in existence for some time now and its application in the Nigeria oil and gas industry is fast growing considering the corrosive nature of our environment. Aware of the increasing desire of oil producers in finding cost effective and time saving solutions to their corroding pipeline systems, AS Energy Services has assembled and effectively trained qualified GRE engineers and technicians with decades of cognate experience design, fabrication and installation.

Our Engineers and technicians have worked major actors in the Nigerian oil and gas sector and have carried out installation activities on platforms such as:

- Bonga FPSO(SNEPCO)
- Amenam Kpono (TOTAL)
- Ofon Platform OML 100 (TOTAL)
- FSO Unity (TOTAL)
- AKPO (TOTAL)
In synergy with our technical partner **Future Pipes Industries** ([www.futurepipe.com](http://www.futurepipe.com)), a world leader in design and manufacturing of glass fiber reinforced epoxy (GRE/GRP) and thermoplastic and Concrete pipe system, AS Energy Services has build a technical capability and financial muscle to deliver quality services in the schedule and budget even in the most challenging projects and work environments. We strive to be an indigenous company reputable for global competiveness by providing quality compliant services to the Nigerian oil and gas Sector.

**MANPOWER OUTSOURCING**

**AS Energy Ltd** has been a major provider of technical manpower for Marine, Oil & Gas, and Petrochemical Industries in and around Nigeria from inception.

We have recruited technical experts (locally and internationally) in divers fields who can be outsourced to our clients on short and long term basis to carry out even the most complex work assignments. With in place we'll largely reduce yours hassle of hiring and training the employees as our employees already have necessary experience in their own field. Also, our in-house training personnel give constant inputs so that our outsourced staff are always a step ahead to meet the entire project requirement within the scheduled period.

The Versatility and Reliability of our workforce has made **AS Energy Ltd** the first contact for many of the Industries to meet their technical manpower needs. Our rapid response of approach in mobilizing the Professionals to the worksite has enabled most of our clients in delivering turnkey projects and solving challenging pitfalls.

In our team, we have experienced and certified professionals for the following disciplines.

**INSPECTORS**
- Quality Control/ Quality Assurance (QA/QC)
- Non Destruction Testing (NDT)
  - Radiographic Inspection
  - Die Penetrant Inspection
  - Magnetic Particle Inspection
  - Hydrotest/Pressing testing Inspection
Workshop Fabrication
  ✓ Structural fabrication supervisors
  ✓ Piping/Spooling Supervisors
  ✓ Engineering/Design supervisors

Blasting & Painting
Pipeline Construction Inspection
Welding Inspection
Scaffolding Inspection

ENGINEERS
- Mechanical Engineers
- Electrical Engineers
- Civil Engineers
- Metallurgy Engineers
- Telecommunication Engineers
- Project Engineers

TECHNICIANS
- Mechanical/Structural Fitters
- GTAW/SMAW Welders
- Electrical Technicians
- Mechanical Technicians

OTHERS
(Project Managers, Structural Engineers, Construction Managers, Architects, HSE Managers, Safety & Risk Assessment Managers, Second Hand Equipment Survey “aimed to assess second hand equipment to establish its suitability for further use or remnant”)

PLACEMENT

Diversifying into multidisciplinary fields and synergizing with major companies for sourcing of manpower has made AS Energy Ltd a dependable solution provider to many organizations in and around Nigeria. In this position, we have build a vast database of proficient manpower dedicated to meet all your project technical, managerial and process needs.

If you have any positions to be filled with competent personnel then just let us know your requirement and our dedicated staffs will take care of searching, contacting and initial scrutinizing of the candidates and if required we can carry out the interview of the candidates with an expert panel to meet out all your requirement.
Process & Pipeline Services

Pipeline integrity is an issue, which requires prompt action, flexibility and innovative technological expertise. With our technical partners, we offer a wide range of inline inspection and maintenance services covering from 3” to 48” pipelines.

We are technologically equipped for pipeline services such as:

1) Integrity management  
   a. Design and Implementation of conforming Integrity management plans
2) Pipeline Inline Inspection  
   a. Intelligent Pigging
3) Leak testing
4) Hot Tapping
5) Corrosion prevention/control
6) Pipeline Flushing & Testing
7) Pipeline Leak Detection
8) Chemical Cleaning
9) Pipeline Purging
10) Hydro blasting or Hydro Jet Cleaning
11) Tank Dislodging / Cleaning
12) Project Management
13) Pipeline Sectional Replacement & Supervision

Pipeline Construction & Fabrication

For convenient and safe conveyance of fluids from one location to another, AS Energy Services in synergy with a major Carbon Steel, stainless Steel, Cupper Nickel, GRE & GRP pipe manufacturers have come up ISO certified procedures, technologies and project management approaches that will see your pipeline construction projects completed within budget and schedule while observing all quality standards. We have the capability to execute and fund capital projects of ample nature for your safe and efficient transport of energy such as crude oil, Gas and other petroleum products.

We have extensively invested in acquiring tools and hiring and training local and expats to deploy for successful and easy execution of the following types of orders:

- Manufacturing & Supply of Pipes to standard and client spec
• Pipeline Prefabrication and Construction

• Pipeline Trenching & Directional Drilling

• Pipeline Installation and Backfilling

Committed to Service

With a team of qualified Piping technicians, Pipeline welders (qualified on 3G, 4G, 5G, 6G Welding positions and underwater welding), African Star Energy Services is a trusted mainline contractor with the capability to handle Pipeline projects ranging from 4” to 48” in diameter; and lengths from a few hundred feet to 200 miles for natural gas, Crude oil and other liquid products. We perform our own road/thrust boring, open cut river for crossing installations and hydrostatic testing as well as grit blasting and paint coating and fencing of Pipeline location/Placement of standard signage.

Launcher/Receiver Construction

Our technical partners have decades of experience in designing and construction of complex tools such as pig launchers/receivers and all appurtenances. Leveraging on this extensive experience AS Energy has been able to prove herself competent in the field of intelligent pigging. Pigging technologies are being used to carry out cleaning operations for pipeline. With the advent of intelligent pig, AS Energy has repositioned itself to support you by not only cleaning your pipeline but collecting and processing intelligent data susceptible to helping you in determine the integrity of your pipeline at any point in time.
Compressor Station Piping & MLV/Interconnect Piping Installation

We perform heavy wall pipe and fabrication welding utilizing SMAW, GMAW and Semi-Automatic GMAW processes. We also have capacity for post weld heat treating (PWHT) as maybe required by welding procedures specification as well as hot tapping in compliance with Operator Qualification requirements.

Carbon Steel, Stainless Steel, CuNi 90/10 Line Pipes & OCTG

AS Energy has the capability to supply steel line pipes ranging from 4inch up to 100inch in partnership with her recognized ISO certified steel manufacturers producing seamless pipes, OCTG and large bore welded pipes in ERW and spiral DSAW. With our team of experienced staff are well positioned to meet our clients’ project needs and on schedule without additional cost.

ELECTRICAL SUBMERSIBLE PUMPS SYSTEM (ESP)

In Partnership with ALNAS ESP in Russia, AS Energy Services has built build a solid capacity for procurement, prefabrication, installation, maintenance and vi-satellite monitoring of oil and gas installation. We have since then acquired trusted experience that positions us as a better advisor to our clients in all they require for their projects. sound engineering advise to the client and also taking into consideration the client's requirement, ALNAS ESP Pumps are in worldwide demand and are manufactured to international standards. The main reasons of ALNAS success are the high quality of products and attractive prices. There are very high standards applied to the manufacturing processes at the plant. Components are thoroughly tested at every stage of the
technological process; the results are documented. The paperwork ensures complete traceability. Nothing is left to chance. During the final tests, each pump, motor and protector is tested in vertical test wells. After testing each unit it is then disassembled and inspected and then re-tested again. Thus all the products are 100% tested in conditions similar to down hole applications including steam injection to test at high temperature. This allows avoiding early failures; which is a common occurrence with Western pump operations. After delivery the Customer is presented with full Q.C. test certificates for each unit. Quality Management within ALNAS follows International Standard (ISO Certificate 9001:2000).

Centrifugal & Electric Pumps, Drilling & Work Over Rigs

AS Energy Services recognizes the importance of having a good media for transporting fluid or gas, and based on this information, AS Energy Services is in partnership with TPR Fiberdur and ALNAS to provide from the design to installation of Centrifugal and electric pumps and additionally AS Energy Services in partnership with TPR Fiberdur is able to provide advanced solution for management of integrated water cycle.

AS Energy Services in partnership with TPR Satvia have been constructing drilling rigs and drilling equipment for water-, oil and gas wells for 40 years. Our long term experience results in high quality drill rigs. We design and manufacture drill rigs of all sizes starting from 1 ton pulling capacity, helicopter transportable to the biggest, fully mobile drilling rigs 160 tons pulling capacity.
Gas Turbine Cleaning

It is well known that compressor efficiency plays a vital role in the overall operation and reliability of a plant. As compressors get dirty, even with the most sophisticated inlet air filtration systems, power output is reduced and fuel consumption increases. Even small performance losses result in a significant negative impact on plant efficiency. The maintenance of clean compressors must be an integral part in the operation of any plant. Compressor degradation is very site specific depending on location, environment and type of operational requirements, but all gas turbine compressors require cleaning at some point. AS Energy in alliance with a world approved gas turbine cleaning product manufacturer can execute a cleaning program that meets the Gas turbine OEMs cleaning standard. Based on the client’s immediate request we are able to carry out the following cleaning.

On-line cleaning – Also known as hot washing, this can be carried out quickly, simply and effectively whilst the turbine is working. It allows for the prolongation of the times the turbine is operational, avoiding frequent downtime and ensuring constantly high performance levels. The special composition of our cleaners ensures superior cleaning results, even in the high-temperature area at the back of the compressor.

Off-line cleaning – This method, also known as cold or crank washing, is called for when a turbine’s performance falls below 94% of its potential power due to contamination and allows it to return to close to 100% nominal power.
Flow Control Product

AS Energy Services Ltd, is a leading supplier of various brands of Flow Control System. We stock a wide range of instrument and control equipment. We are a leading company with vast experience in turnkey project. We believe in our ability to procure solutions to the client, in the area of engineering, material sourcing, installation and maintenance. In our desire to be a foremost company in the field of instrumentation, we have taking a step further to provide in country ability to crimp hoses of various sizes and specification.

Our technicians and Engineers are duly certified to carry out various services to ensure that the client needs are met.

We stock various items listed but not limited to the following:

JIC fittings, NPT, Valves, Hoses, VFT’s in stainless Steel or as requested by the client. Due to our desire to provide on-time delivery, we have the capability to carry out hose CRIMPING services. We have duly trained personnel.

Our range of valves come in stainless steel, bronze, and as required by the client, we are in partnership with various world known brand to provide, butterfly valves, non return valves, and specialized valves.

Core Competencies

By taking advantages of best practices across the industry, we can provide best-in-class services. AS Energy Services has turnkey capabilities through an expert network of strategic foreign technical partners. We also have established affiliations with reputable Original Equipment Manufacturers (OEMs), thereby ensuring that all our products are sourced directly from the manufacturers.

To differentiate ourselves from others, we emphasize our technical expertise, customer focus, on-time delivery, competitiveness, and partnerships with world class companies, quality of service, and professionalism. We understand the complexities and issues facing the industry, and our extensive experience together with strong grounding in the Nigerian culture and ways of conducting business mean we understand first hand the many complex business issues, and are able to respond more quickly to ongoing requirements. We have quick access to international markets via our geographical spread and technology, together with access to international lines of credit.

With our vast experience cutting across several facets of business, together with affiliations with a number of reputable foreign companies, AS Energy Services has the reach and means to deliver high quality products and services cost effectively and on-time to point of need.
PARTNERSHIPS

AS Energy Services is quick in recognizing that in order to provide unrivalled services to the Nigerian oil and gas industry, there is a need to be in partnership with world-class original equipment manufacturer. AS Energy services is currently in partnership with the following service companies and manufacturers around the world:

**Future Pipes Industries**

Future Pipes Industries (www.futurepipe.com) is a world-renowned GRE/GRP manufacturing company. The company specializes in glassfibre reinforced, thermoplastic, and concrete pipe system. Products also include specialized GRE/GRP tanks and floats for dredging.

**Startrak**

The Company is a world-class manufacturer of pigging products; they manufacture various types of pigs used extensively in the pipeline industry which include Pathfinder Magnetic pigging system, Magnetometer, and Startrak’s inland waterway inspection systems.

**Favuseal**

Favuseal AS (Norway) is the continuation of the former companies Norsk Safetech AS and PSP Safetech AS. Norsk Safetech AS was originally founded to develop and market products based on the Favuseal technology. This work was later taken over by PSP Safetech AS. In 2005, all activities in PSP Safetech AS were taken over and continued in Favuseal AS. Today, Favuseal AS concentrates all its resources around the production and marketing of fire protection products and systems based on the Favuseal technology. Favuseal AS possesses considerable knowledge in the field of polymer technology and the mechanisms associated with Favuseal’s performance. Favuseal AS can deliver FFBS and other Favuseal
products in any quantity anywhere in the world on relatively short notice. Favuseal AS is owned by the Schlytter-Henrichsen family.

**Jin Shun Valves**

Is the largest petrochemical combined enterprise in China, Jin Shun Valves manufactures gate valves, globe valves, check valves, butterfly valves, Pneumatic valves Pneumatic butterfly valves which are widely used in the petroleum, chemistry, metallurgy industries. their products are constantly been exported to America, Germany, Japan, Canada, Sudan, and the middle east.

"ALNAS", established in 1978, is the largest manufacturer of electric submersible pumps (ESP’s) in the world, which can supply complete pump sets for oil production (pump, electric motor, gas separator, Hydro-protector, surface equipment). The production facilities of the company enables ALNAS to produce up to 12 000 units of Pumps and 10 000 units of Submersible Electric motors.

The capacity of ALNAS pump units ranges from 25 m$^3$/day up to 2000 m$^3$/day, well depth is up to 3300 m, which allows our Customers to select the correct equipment, parameters of which are suitable for each well and ensures maximum run life at lowest prices.
Organizational Structure

AS Energy Services commenced operations out of its African office in the 2006, and was incorporated in Nigeria in February 2007. The company is an independent oil services company, which was formed and owned 100% Nigerians. The senior management team consists of executive directors and senior managers. Furthermore, the board of directors consists of other non-executive directors with several years engineering, management, business, legal and finance experience in the oil & gas industry to assist with management decisions on operations and long-term planning, necessary for continued and consistent growth. There are also business development managers, accounts executives, regional managers, field-based staff, engineers and administrators.

The company uses a project-based organizational structure, which ensures each new job is managed by its own team, whose leader reports to the head office. The head office oversees the general planning, funding and operations of each contract. With this structure, we are able to effectively and efficiently run several projects simultaneously.

The culture AS Energy Services is one of focused, innovative and entrepreneurial management, which brings effective services to our customers, through communicative teamwork, combined with efficient business and information technology system.
ORGANIZATIONAL STRUCTURE

MANAGING DIRECTOR
(NIGERIAN)

EXEC. DIRECTOR FINANCE
(NIGERIAN)
- CHIEF ACCT.
- PROC. MGR.
- ASST. CHIEF ACCT.
- STORE MGR.
- ACCT. OFFICERS
- STAFF

EXEC. DIRECTOR BUS.
DEVELOPMENT
(NIGERIAN)
- BUSINESS DEVELOPMENT EXECUTIVES

EXEC. DIRECTOR PROJECTS
(NIGERIAN)
- HEAD OPERATIONS
- QUALITY CONTROL MANAGER
- PROJECT MANAGER
- STAFF

EXEC. DIRECTOR ADMIN.
(NIGERIAN)
- ADMIN. MANAGER
- HSE MGR
- TRAINING MGR
- STAFF

MANAGING DIRECTOR
Offices Headquarters

AS Energy Services

23c Gbei Road,
Nkpolu Rumuigbo,
Port Harcourt,
Rivers State,
Nigeria.
Tel: +234 84 791234
Email: enquiries@asenergyng.com
URL: http://www.asenergyng.com/

Other Offices

UK Office

34 Rowan Rise,
Barnton Northwich,
CW8 2NZ CHESIRE
Tel: +44 (0) 1 606259652
Email: enquiries@asenergyng.com

Ghana Office

No 20 St. Francise Avenue,
Anaji, Tadi Takoradi.
Ghana
Tel: +233263005461, +233242588692

Lagos Office:

228 Alade Odunewu Street,
Parkview Estate.
Ikoyi, Lagos
Tel: +234 84896812

www.asenergyng.com