



**Quantum Strategies
& Energy Solutions**
RC No 1642543



**Integrated Innovation
and Business
Solutions Provider**



QSES is the Exclusive Sales Representative of ISCO Industries Inc. for the supply of HDPE pipes, Fittings and Equipment in Nigeria and Africa



Established in
1962

Core Business=
HDPE Piping Systems

Manufacturing,
Fabrication, &
Distribution

Fusion
Equipment &
Services

Outline

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Company Overview

We are an integrated innovation and business solutions provider to the Energy, Manufacturing, and Agro-allied sectors of the economy. Duly certified by the Corporate Affairs Commission of Nigeria.

Our Vision

To be a foremost energy and business solutions provider across the vast economic spectrum in sub-Saharan Africa and the world.

Mission Statement

Our mission is to be a reputable business partner employing cutting edge tools and technology to provide efficient service and effective solutions to meet and exceed our customer's business objectives.

Company Mantra

Solutions | Innovation | Service



Core Values

Energy

We are passionate about what we do and through synergy provides the enthusiasm, agility, dynamism and mental prowess required to perform and sustain efficient and effective service.

Service

Our wheel of progress is always in motion and turns upwardly. We lead through consistent and committed service while upholding the tenet of Environment, Health, Safety and Security (EHSS).

People

We recognize that our people is our brand, our partners reinforce our brand and our customers validate our brand. We provide value to all stakeholders, making integrity, teamwork and effective communication critical in our relationship and transactions. We constantly build a culture that is people centric.

ESG

3 pillars of ESG



Our commitment to **Environmental** protection, Social values and acceptable **Corporate** practices is unalloyed as we aim to meet ESG requirements and expectations.

What We Offer

Energy Services

- Feasibility Studies Concept Analysis
- Engineering Designs
- 3rd Party Review & Validation
- Safety Studies
- Project Cost Estimation
- Project Management & Advisory
- Training & Manpower Supply

Business Strategy & Support

- Supplies, Procurement & Logistics
- Organizational Process Audit
- Change Management
- Business Strategy & Transformation
- Performance Management
- Regulatory Compliance Management
- Project Development
- Business Continuity
- Bids & Tender Management

Commercial Solution

- Proposal preparation
- Financial Modelling
- Contract Drafting & Review
- Contract Management
- Negotiation
- Risk Management

We distribute ISCO's High-Density Polyethylene (HDPE) pipes, fittings and fusion equipment (McElroy) in Nigeria and Africa.

Company Directors



Engr. Akinwale Biobaku is an engineering and technical expert, a business strategist and management consultant who has established a professional and excellent footprint in the oil and gas industry.

He is the founder and CEO of Quantum Strategies and Energy Solutions LTD, a business with focus on providing integrated, innovative and business solutions in efficient ways to meet client and customers' goals and objectives.

His experience cuts across multinational and indigenous Engineering, EPC and Exploration and Production (E&P) companies.

“Akinwale believes that where the culture is right, strategic fits will lead to performance and profitability”.



Dr. Gabriel Olowo (FNIM, FITP), is an Economist and Business Administrator with uninterrupted cognate experience in Aviation dating back to 1973.

He is the President/CEO - Sabre West Africa, President Aviation Safety Round Table Initiative (ART), Chairman InterGuide Group and Trustee Ikeja Golf Club.

He is a Fellow of the Nigerian Institute of Management, Member Nigeria/ American Chamber of Commerce, Nigeria-Brazil Chamber of Commerce & Industry and Nigeria/ British Chamber of Commerce.

Being the Chairman of the board of directors, he charts and leads on the path to corporate governance for outstanding achievement.



Dr. Philips Agboola, PhD, an erudite scholar, industrialist and serial investor of repute. He is an Associate Professor in the prestigious King Saud University in Riyadh, Saudi Arabia.

He has written several international research journals which is having tremendous knowledge impact on the engineering industry and academia.

He is a member of the American Society of Mechanical Engineers (ASME), International Association of Engineers (IAENG) and Association of Energy Engineer (AEE).

As a member of the board, he brings his wealth of experience on Engineering, Technology and Innovation.



Olalekan Ogundowole, an accomplished player in the Nigerian and International oil and gas industry. He is a passionate and self-driven leader with proven multicultural skills having worked in several countries in Africa, Asia and the Gulf.

He leads business initiatives to open new markets, deepen existing relationships and foster revenue growth. He is a champion with highly extended experience and network in the downstream and upstream industries.

He has a record of notable achievements of executing high profile projects, including the development and execution of multi-billion dollar projects.

He is a board member bringing his expertise and experience in business development to enhance growth, development and expansion.

Market Segment



Refining



Petrochemical



LNG



Power



Mining



Oil & Gas



Municipal (AWWA)



Landfill



Geothermal



Culvert Lining

Our Services

**Project Management | Business & Management Consultancy
Engineering Design | Safety Studies | Construction Supervision
Maintenance & ICT Works | Manpower Supply & Training**



ISCO EPC Model = Total Piping Solutions



HDPE Piping System & Fusion Training

Technical Course

- HDPE Design and Specifications
- Material selection: Types, uses and applications
- Codes and Standards for HDPE
- HDPE fittings
- HDPE Joining, fabrication and Installation
- HDPE Equipment: An overview of types, uses and application
- HDPE Manufacturing: Overview of pipe extrusion
- Quality control

Practical Course

Know your pipes, fitting and equipment

- Sizes, nominal diameter and internal diameter
- Types and uses
- Equipment and fusion tools
- Sample identification: physical and pictorial

HDPE joining and fabrication


- Samples of fabricated spools and joining types
- Butt fusion
- Electrofusion
- Flange connections: Sample of HDPE/HDPE, HDPE/Others
- Use of gaskets
- Torqueing
- Hydrotesting
- Repairs

Assessment & Certification



HDPE Piping System & Fusion Training



 ISCO [®]	<small>ISCO INDUSTRIES, INC. 100 Withamspoon Street 2 West Louisville, KY 40262</small>	Seminar Date(s)	
		Total Seminar Time	
This certificate documents that the individual documented below participated in a seminar presented by ISCO Industries that discussed features, benefits, joining methods, and industry experience related to polyethylene pipe (HDPE)			
Course:			
HDPE PIPE TRAINING – LAGOS, NIGERIA			

**Learning is fun when it's with the experts!
Watch out for our training sessions!!
Get in touch!!!**



HDPE Fusion Equipment, Crew and Training are available for your Project Execution

HDPE Application



INDUSTRIAL PLANTS USING HDPE PIPE

- Aggregate and Mining Plants
- Liquid Fertilizer Plants
- Pulp and Paper Plants
- Petrochemical
- Semi-Conductor - Wafers
- Plastic Resin Manufacturers
- LNG (Liquefied Natural Gas)
- Coal Fired Power Plants
- Natural Gas Plants
- Fuel Oil Power Plants
- Hydroelectric Plants
- Biomass Power Plants
- Nuclear Plants
- Wind Farm Plants
- Solar Plants
- Food and Beverage Plants
- Chemical Processing Plants



INDUSTRIAL APPLICATIONS OF HDPE PIPE

- Factory Mutual (FM) Piping - Fire Loops And Mains
- Acid/Caustic Lines
- Acid Mining
- Acid Bath
- Organic Chemicals/Inorganic Chemicals
- Hazardous Waste
- Portable Water And Wastewater Applications
- Process Water
- Cooling Water
- Barge Loading And Unloading Tank Storage/Farms
- Dual Containment Piping Systems
- Aeration
- Tailings Lines
- Liquor, Bleaching, And Caustic Acid Lines
- Dredging Applications
- Liquid Fertilizer
- Clean And Ultra-Pure Water Process
- Power Plants, Fresh Water and Discharge
- Spent Fuel Slurry (Fly Ash And Bottom Ash)
- Outfall Lines
- Deionized Water (DI) Waste Lines
- Gypsum Lines
- Flue Gas Applications
- Penstock

The Benefits of HDPE

Leak-Free System

While ductile iron and PVC have leak rates of 30 percent, HDPE has a failure rating of 1/10,000,000.

HDPE is heat-fused during installation with a process called butt fusion, allowing for one of the lowest leakage rates out of all pipe materials.

When properly fused, joints are as strong in both circumferential hoop stress and axial tensile strength as the pipes themselves.

Short-Term Availability

While lead times for HDPE and PVC have both been extended in the wake of recent supply chain disruptions, HDPE is significantly shorter—making timelines more manageable and predictable.

This makes HDPE a clear winner in terms of availability.

Easy Installation

In most cases, HDPE also has the lowest installed cost of any other material.

HDPE can be installed with trenchless technologies like directional drilling, pipe bursting, slip lining, and compression fit lining. Thus, installation is safer, more efficient, less environmentally disruptive, and less physically demanding.

Trenchless technology is typically 50 – 75 percent of the cost of open-cut installations.

Environmentally Friendly

At ISCO, we believe that we have a responsibility to help protect the planet; that's a major reason we advocate for HDPE.

HDPE is the most environmentally-friendly plastic on the market. It is recyclable, doesn't give off caustic fumes, and the manufacturing process requires only a fraction of the energy needed to produce some other materials standardized across the industry.

Corrosion-Resistant

Another benefit of HDPE is that it doesn't corrode over time like metallic products.

This is essential, especially in potable water applications where internal and external corrosion can occur, common with metal pipe systems.

Responsible & Sustainable Infrastructure

HDPE pipe is the best product for developing a sustainable infrastructure.

From its low energy cost to produce, ship, and install, to its leak-free performance, corrosion resistance, and economic advantages, HDPE pipe is the best choice for performance and versatility compared to other materials.

Extreme Surge Tolerance

HDPE pipe can handle occasional surges up to 2 times its working pressure rating and recurring surges up to 1.5 times its pressure rating with no risk of stress damage to the pipe.

Additionally, HDPE handles high-flow velocities.

The ductile polyethylene material absorbs energy created during a surge event and dissipates the wave quickly when compared to legacy materials.

In short, HDPE is the most surge and fatigue-resistant of any other water piping material.

Chemical-Resistant & Stable

Because HDPE is resistant to acids, bases, reducing agents, and gentle oxidants, the material mitigates the risk of leaching, ensuring that chemicals do not reach hazardous levels.

It's Significantly Cost-Effective Long Term

When you consider that HDPE:

- Has a well over 100-year service life
- Does not leak
- Is tough, flexible, fully restrained, and more readily available
- Can offer installation methods with less environmental disruption

It's clear that HDPE consumers will save money throughout the duration of a project.

Tough, Lightweight & Flexible

Unlike brittle PVC and ductile iron, HDPE has an average bend radius of 25 times the outside diameter. Moreover, you can form a radius without using fittings for directional changes.

At nearly 1/8 the density of steel, HDPE is also incredibly lightweight, reducing the size of machinery required during installation or transportation, thereby helping to reduce the carbon footprint associated with the project.



Project References

Engineering & Technical Services

Client: ILF Engineers Nigeria Limited/ Petrolex

Project: Pipeline Engineering Design Services for Delivery of Process Engineering Scope of the FEED for 3x37km PMS, AGO & DPK Product Pipelines.

Duration: Feb 2020–Dec. 2021



Client: West African Gas Limited

Project: Hazard Identification (HAZID) Studies of NPSC Escravos Crude Oil Receiving & Discharging Terminal

Duration: May 2020



Client: Lavayo Energy/ Axxela

Project: Facility Assessment and Report of the Pan Ocean Oil Corporation Ovade Ogharefe Gas Processing Plant

Duration: Nov. 2021





Project References

Engineering & Technical Services

Client: More Energies Limited, Lekki, Lagos.

Project: Facility Assessment and Financial Modelling of LPG Storage and Dispensing Terminal at Oregon Lagos.

Duration: April/May 2022



Client: Griffin Continental Energy Resources, Ikoyi, Lagos.

Project: Feasibility Study for Establishing Gas Processing & LPG Production Plant in the Niger Delta

Duration: Sept. 2022– Mar. 2023



Client: SEMPER Gas Transport Solutions Limited, Port Harcourt Rivers.

Project: Facility HAZOP of LPG Bulk Storage Yard at Kidney Island, Rivers.

Duration: Feb. 2023– Mar. 2023





Project References

Engineering & Technical Services

Client: ILF Engineers Nigeria Limited

Project: Engineering Coordination Services for the DED of Volumetric Flow Control Systems Project Lots-11.

Duration: Dec. 2022– Ongoing





Project References

Business & Management Consultancy Services

Client: FabriTent Engineering (W.A) Limited, Lagos.

Project: Organization Structuring, Marketing Tools & Strategy, Project Management Advisory Services.

Duration: Jan. 2020 – June 2020

FabriTent RC 1408733
ENGINEERING (W.A) LTD
...everything marquees, membrane and metals

Client: Propetrol Nigeria Limited, Lekki, Lagos.

Project: Site Visit and Bidding Support for the Overhaul of Water Bath Heaters, Servicing of Valves, Controllers and Procurement of Spares at Olorunsogo & Omotosho NIPP

Duration: Apr. 2022

 **propel** TM
a trademark of **propetrol limited**



Project References

Business & Management Consultancy Services

Client: 3T Oil and Gas / Chevron Nigeria Limited

Project: Supply of HDPE Pipes and Fittings.

Duration: May, 2022



Client: Oilserv Limited, Port Harcourt, Rivers/ NNPC

Project: Supply of HDPE Pipes and Fittings for the AKK Gas Pipeline Project.

Duration: July 2023.



Project Reference ISCO Industries: Project References (International)

Year	EPC/Client	Project	Location	Market	Owner(s)
2021	Egypt LNG	Egypt LNG Debottlenecking	Egypt	OG&C	Egypt LNG
2021	CCS JV	Mozambique LNG	Mozambique	OG&C	Total E&P Mozambique
2020	AMECO	LNG Canada	Canada	OG&C	Shell, PETRONAS, PetroChina
2020	Tecnicas Reunidas	Termocandelaria	Colombia	Power	Termocandelaria Power Limited
2020	Bonatti	Refinery & Fuels Terminal Topolobampo	Mexico	OG&C	PEMEX
2020	Bonatti	Fuels Terminal Valle Mexico	Mexico	OG&C	PEMEX
2020	McDermott	Tuxpan International Fuels Terminal	Mexico	OG&C	Monterra Energy
2020	Bonatti	Fuels Terminal Puebla	Mexico	OG&C	PEMEX
2020	SPLK	Kivu-56 Methane to Power	Rwanda	Power	Shema Power Lake Kivu Limited
2019	GINMIN	Bonasika	Guyana	Mining	Guyana Industrial Minerals
2019	Sacry/Fluor	Monte Azul Terminal Mollendo	Peru	OG&C	Monte Azul
2019	CTCI/Saipem	Nong Fab Regasification Plant	Thailand	OG&C	PTT LNG
2019	Audex	Al Brooge Refinery - Phase II	UAE	OG&C	BPGIC
2019	Hss-Jv	Al Zour Refinery	Kuwait	OG&C	Kuwait National Petroleum
2018	AFCONS	Sediment Dam	Liberia	Mining	Arcelormittal
2018	Chemex Modular	Niger Delta Petroleum Refinery	Nigeria	OG&C	Chemex Modular
2018	Bechtel	Atlantic LNG	Trinidad	OG&C	BP, BG, Shell & NGC
2017	Sacry-IMASA	Oruro Cement Plant	Bolivia	Industrial	Ecebol
2017	Tecnimont	KIMA	Egypt	OG&C	Egyptian Chemical Industries
2017	Toyo Engineering	SRI U3	Indonesia	Industrial	Synthetic Rubber Indonesia
2017	ENKA	West Qurna IOT	Iraq	OG&C	ExxonMobil
2017	B2Gold	Fekola	Mali	Mining	B2Gold
2017	CB&I/CTCI	LPIC Ethane Cracker	Oman	OG&C	Orpic
2017	Bechtel	Galeota Terminal	Trinidad	OG&C	BP
2017	Technip	Galeota Terminal	Trinidad	OG&C	BP
2017	AMEC Foster Wheeler	Copler Sulfide Expansion Plant	Turkey	Mining	Anagold Madencilik
2016	AIC	West Damietta Power Plant	Egypt	Power	Egyptian Government
2016	AIC	Al Shabab Power	Egypt	Power	Egyptian Electricity Holding Company
2016	Daelim	San Buenaventura CFPP	Philippines	Power	San Buenaventura Power Ltd. Co
2016	Fluor	Barakah Nuclear Power Plant	UAE	Power	Emirates Nuclear Energy Corp.

Year	EPC/Client	Project	Location	Market	Owner(s)
2016	Audex	Al Brooge Plant	UAE	OG&C	BPGIC
2015	Samsung Engineering	Kelar Natural Gas Power Project	Chile	Power	Samsung C&T/KOSPO
2015	Samsung Engineering	Kelar Natural Gas Power	Chile	Power	Samsung C&T/KOSPO
2015	SK E&C	Red Dragon Power Plant	Chile	Power	IEM S.A.
2015	ICA Fluor	Dos Bocas Phase I	Mexico	OG&C	Pemex
2015	ICA Fluor	Etileno XXI	Mexico	OG&C	Braskem-Idesa
2015	Hyundai E & C	Therma Visayas Energy	Philippines	Power	Aboitiz Power/Vivant Corp.
2015	Black & Veatch	Mae Moh Power Plant	Thailand	Power	EGAT
2015	Hyundai Engineering	Turkmenistan Ethane Cracker & PE/PP Plant	Turkmenistan	OG&C	Government of Turkmenistan
2014	SK E&C	Fort Hills Oil Sands Plant	Canada	OG&C	Fort Hills Energy
2014	Reliance Industries, LTD	Gas & Water Pipe Line	India	OG&C	Reliance Industries, LTD
2014	ICA Fluor	Salina Cruz Refinery	Mexico	OG&C	Pemex
2014	ICA Fluor	Salamanca Refinery	Mexico	OG&C	PEMEX
2014	SK E&C	PACO Power Plant	Panama	Power	Minera Panama S.A.
2013	CB&I	Ichthys LNG	Australia	OG&C	Total, CPC Corp. Taiwan
2013	JGC/ Chiyoda/ KBR	Ichthys LNG	Australia	OG&C	Impex
2013	Hyundai E&C	Ashuganj Power Station	Bangladesh	Power	Ashuganj Power Company
2013	POSCO	POSCO Themco	Chile	Power	AES, Mitsubishi
2013	Hyundai Engineering	Termostasajero Power Station	Colombia	Power	Termostasajero S.A.
2013	ICA Fluor	Ciudad Madero Refinery	Mexico	OG&C	PEMEX
2013	ICA Fluor	Minatitan Refinery	Mexico	OG&C	PEMEX
2012	Bechtel	Gladstone LNG	Australia	OG&C	Santos
2012	ICA Fluor	Cadereyta Refinery	Mexico	OG&C	PEMEX
2012	Contour Global	Natural Gas Power Plant	Rwanda	Power	KivuWatt
2011	Bechtel	Queenstand Curtis LNG	Australia	OG&C	Shell
2011	Bechtel	Australia Pacific LNG	Australia	OG&C	ConocoPhillips, Origin Energy, Sinopec
2011	JPMO	Sanmen Nuclear Power Plant	China	Power	SNPTC
2011	JPMO	Haiyang Nuclear Power Plant	China	Power	SNPTC
2011	CB&I	Cartehena Refinery	Colombia	OC&C	Ecopetrol
2011	Fluor	Oyi Tolgoi Mine	Mongolia	Mining	Rio Tinto

Clients



Contact Us

We'd love to hear from you.

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