

2023



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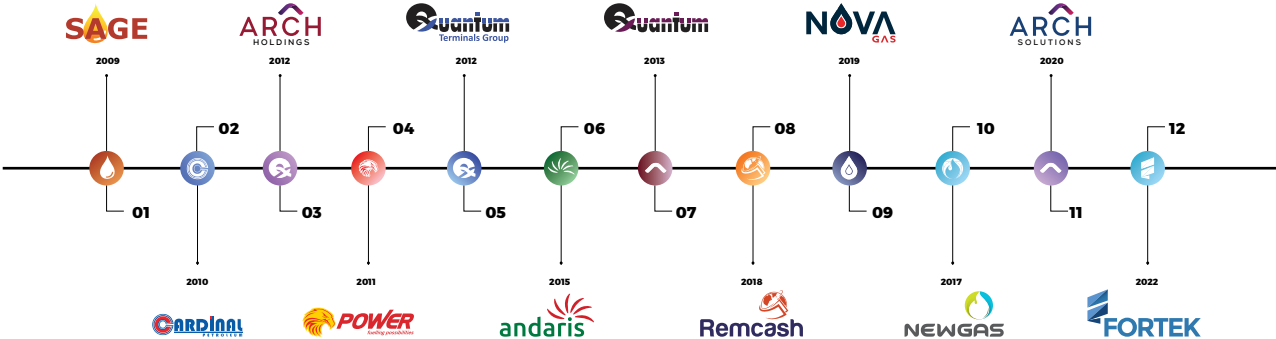
**WHO
WE ARE**



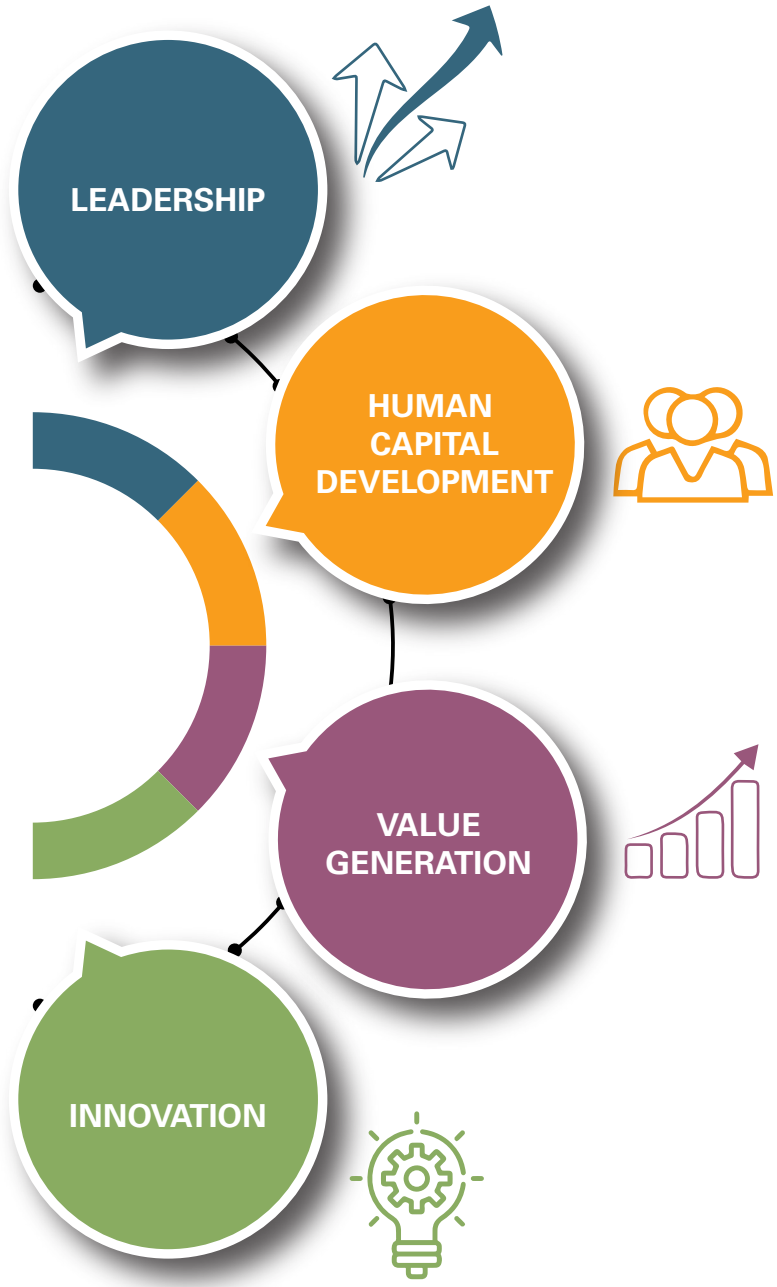
Our Vision is to invest and build partnerships in key growth sectors to support Africa's growth.

An innovative and project oriented Group which has grown from a single trading business to multiple highly interlinked and interrelated businesses.

Timeline & Growth



ARCH
HOLDINGS
Core Values



WHAT
WE DO



We consistently seek to leverage our key competencies to develop new opportunities.

TERMINALS & INFRASTRUCTURE



TRADING & DISTRIBUTION



RETAIL MARKETING



ENERGY DEVELOPMENT




INDUSTRIAL



TECHNOLOGY & FINANCIAL SERVICES



An aerial photograph of an industrial facility. In the upper right, three large white spherical storage tanks are visible. Below them, a long, low building with solar panels on its roof is situated. In the center, a large white cylindrical tank with a red stripe and the 'Energy Transfer' logo stands on a concrete pad. To the left, there is a multi-story office building and a parking lot filled with cars. The foreground shows a large paved area with several covered loading docks and trucks. The overall scene depicts a modern energy storage and distribution terminal.

TERMINALS & INFRASTRUCTURE

UNENDING QUEST TO DELIVER UNMATCHED STORAGE
SOLUTIONS AT THE RIGHT LOCATIONS.

TERMINALS & INFRASTRUCTURE

The image shows an aerial view of an industrial terminal. In the foreground, five large, white, cylindrical storage tanks are arranged in a cluster. Each tank has a flat, brownish top with a central vent or access point. To the left of the tanks, a train of several railcars is parked on tracks. The background features a large, long industrial building with a corrugated metal roof, surrounded by paved areas and some vegetation. A red line connects the central text box to three smaller red boxes below it, which are labeled 'LPG Terminals', 'Oil Terminals', and 'Propane Terminals'.

LPG Terminals

Oil Terminals

Propane Terminals

LPG Terminals - Atuabo LPG Terminal

This facility is an LPG Evacuation Terminal at Atuabo, near the Ghana Gas Processing Facility. It receives LPG produced at the Ghana Gas Processing Facility for storage and loading to the market.

This Facility has a 750MT LPG storage capacity and can load up to 1500MT per day across its eight (8) truck loading bays. The facility has an automated Terminal management system and is equipped with weighing bridges at the entry and exit points; a Control Room; a spacious Car Park; a well furnished waiting area and canteen for drivers.

The facility, valued at USD 25 million was partly funded by Standard Chartered Bank (UK and Ghana) and supported by GuarantCo, a credit guarantee company. Construction started in May 2013, was completed in November 2014 and loading operations started on 5th December, 2014.



LPG Terminals - Tema LPG Terminal

This is an LPG Storage and Evacuation Terminal at Tema.

The facility is being constructed in 2 Stages. The first stage, which is the construction of a 1800 Cubic Metres LPG storage with 4 loading gantries at a cost of USD 10m, was completed and commissioned in 2021.

An extra 600 Cubic metres of LPG Storage will be added during the second stage at an estimated cost of USD 2m.



Oil Terminals - Tema Oil Terminal

This facility started operating in November 2018 and has a 30,000 MT Gasoil and 25,000MT Gasoline storage capacity giving the facility an initial storage capacity of 55,000 MT. Our excellent location in the Port City makes this facility ideally placed to receive most tanker sizes and also undertake regional distributions.

The facility has a truck park that can hold up to 75 trucks at a time and has the capacity of loading out 15,000,000 liters of products daily, from its 16-truck loading bays. The facility is fully automated and has an automatic inline additivition system, the only one of its kind in Ghana. The Facility is valued at about USD57 million.

A second phase of the project will add a further 45,000 MT to the storage capacity.



Propane Terminals - Tema Propane Terminal

This is a propane rated storage terminal made up of 3 spheres with a total storage capacity of 13,600 cubic meters.

Construction of this facility also included the construction of a nine (9) kilometer twelve (12) inch propane rated pipeline from the Tema Jetty through the Tema Oil Refinery (TOR) to the Terminal, Vapour recovery system, fire fighting system, pumps and pipeline to a 400MW power plant, costing USD 86million. This was commissioned in March 2020.

The facility, originally developed to store propane to power the 400MW Power Plant, is now being used to support the Group's LPG trading activities.



TRADING & DISTRIBUTION

WE MOVE COMMODITIES FROM WHERE THEY ARE IN
ABUNDANCE TO WHERE THEY ARE NEEDED.





**TRADING &
DISTRIBUTION**

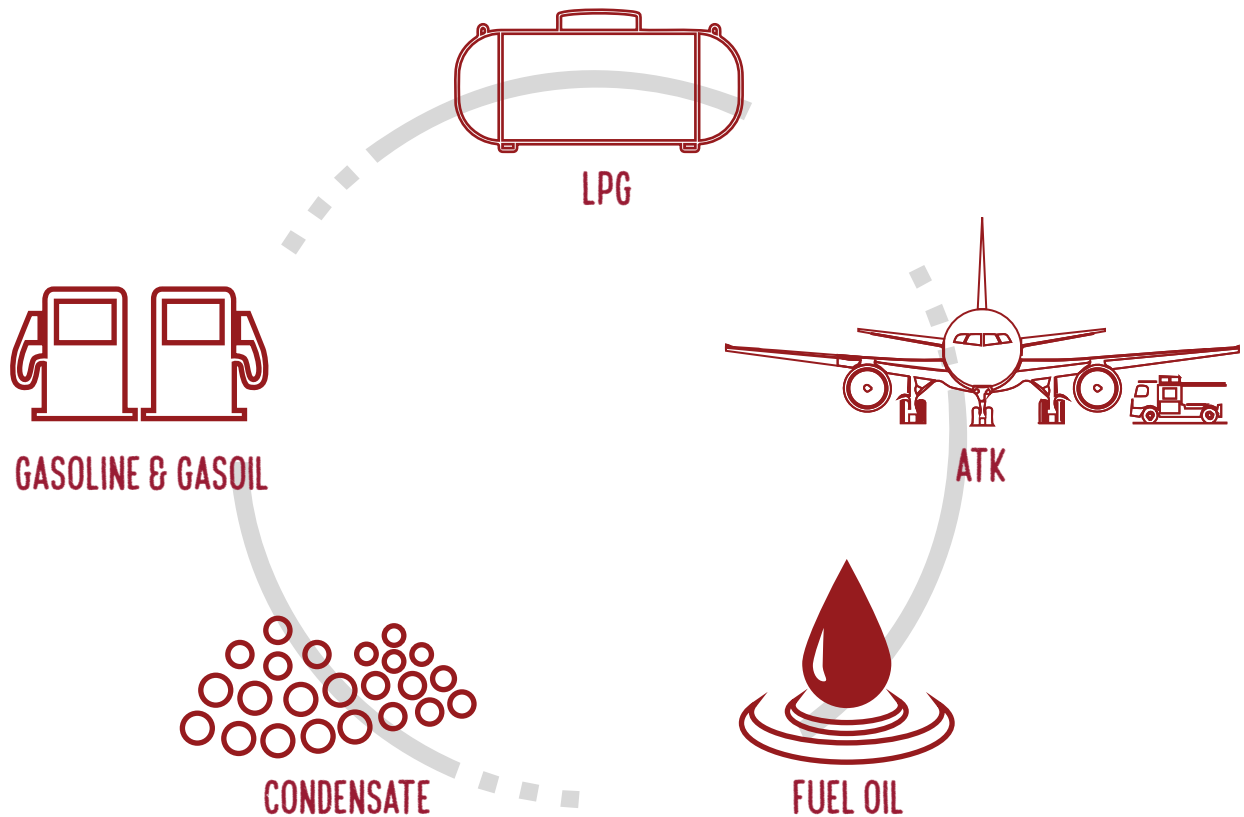
Petroleum
Trading

Petroleum Trading

Our in-depth awareness in Global market developments coupled with our local presence in West Africa, puts us in an ideal position to provide adequate solutions for our clients.

Currently one of the leading trading companies in Africa with active trading in West Africa. A key Bulk Distributor on the Ghanaian market serving a number of key Oil Marketing Companies.

A key off-taker of LPG produced by Ghana Gas Processing Plant which processes gas from the Jubilee fields and LPG supplier to a 400MW Power Ghana, the largest LPG powered plant in the World.



RETAIL MARKETING

END TO END VALUE DELIVERY OF PETROLEUM
PRODUCTS AND RELATED SERVICES TO THE
CONSUMER IS OUR GOAL.





RETAIL
MARKETING

OMC Network
Management

Logistics &
Support

Value Added
Services

POWER
SUPER
& **DIESEL**

POWER
SUPER

fuelling possibilities

LPGMC & OMC Network Management

We invest, operate and manage Oil Marketing Companies (OMC) and LPG Marketing Companies (LPGMC).

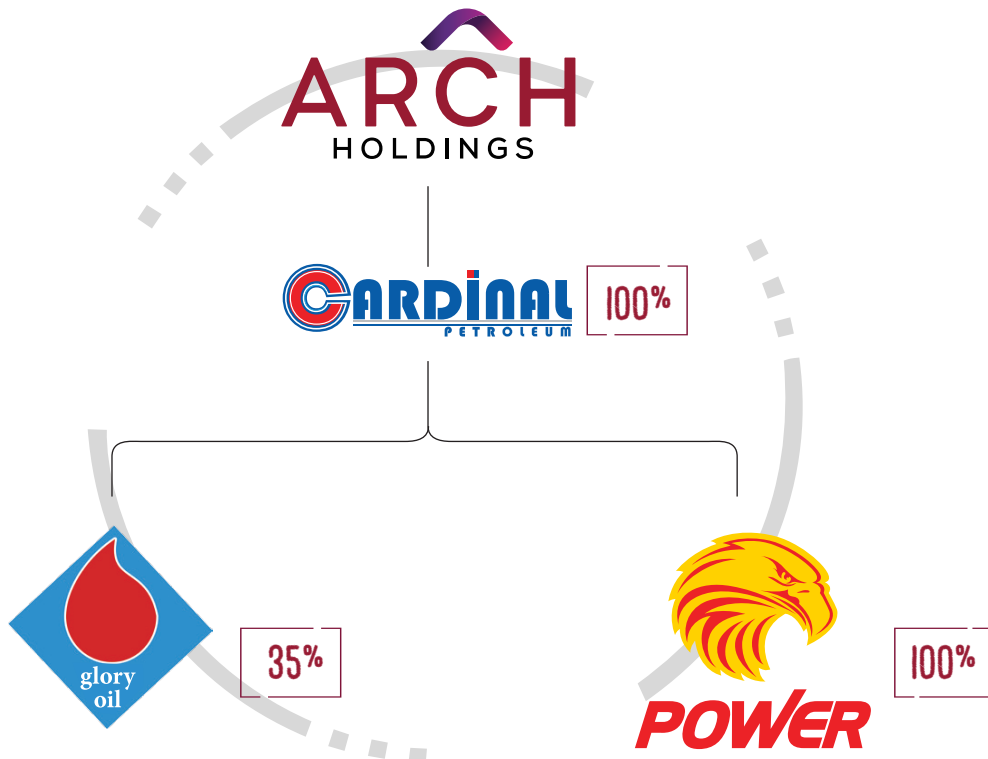
We currently operate a network of Fuel Service Stations spread across all the regions in Ghana through two (2) OMC's. We also have investments and strategic alliances with 4 LPGMC's with filling stations across the country.

Power Super & Power Diesel

The key objective is to deliver quality fuels and excellent customer experience at each of our network stations and beyond.

Power Super & Power Diesel are enhanced with specially formulated additives which give our customers more value and also helps us to build brand loyalty for our OMC's.

Launched in 2011, it is marketed and dispensed at all our fuel station outlets.



Value Added Services

Power Cards

The cards provides our clients with a more secure way of managing their fleet of vehicles and also enables us to better understand our customers and their purchasing habits so as to serve them better.

Lubes

We market the United Arab Emirates' ENOC brand of lubricants in Ghana. This is sold in all our OMC outlets thus ensuring that our customers have access to high quality lubricants for their vehicles.

Power Platform

This platform has been designed to collect, process, analyze, manipulate and visualize geospatial data for quality business and personal decision making. With this information on the location of any power station is just a click away.

Logistics & Support

Logistics

The Group is engaged in the haulage of petroleum products for its OMC's.

Currently with a strong fleet strength of bulk road vehicles, we invest in Technology and Strategic Infrastructure to ensure reliable and efficient supply logistics.

Engineering

Maintenance and repairs of fuel pumps, underground tanks and the haulage trucks of the Group are managed by the Group's engineering team. The team is also responsible for the construction and refurbishment of our fueling stations.

**ENERGY
DEVELOPMENT**

CONSISTENTLY PUSHING THE BOUNDARIES.





ENERGY
DEVELOPMENT

Conventional

Conventional - Early Power [Bridge Power Project]

We are co-developers and equity partners in the 400MW Early Power Project currently under construction in Ghana together with GE and Endeavor.

The plant can operate on propane, natural gas and Diesel.

The plant is being developed in two stages ;

Stage 1: 194MW

Stage 2: Additional 206MW

Total estimated cost of the project is \$953m



**TECHNOLOGY &
FINANCIAL SERVICES**

WE ARE CONSTANTLY INNOVATING AND EVOLVING.



TECHNOLOGY &
FINANCIAL SERVICES

Apps
Development

Cloud
Solutions

Fintech
Platform



Apps Development

All Group systems and applications development as well as maintenance are customized, developed and maintained internally by the Group IT Applications team.

The team is responsible for developing the accounting, reporting and analytic systems used by all the subsidiary companies within the Group, the automation of the terminal systems at all our terminals and the integration of all the various systems into one central source.

Customization of the Groups Enterprise Resources Planning (ERP) and Analytics systems for the various sub companies are also handled by the team.

Cloud Solutions

The group has gained a lot of knowledge and expertise from building several in-house applications and solutions over the years and has put together a team and cloud infrastructure to leverage on our experiences to provide key services to SMES and Enterprises in Ghana and beyond.

The teams remit is to provide

- * Business Solutions and relevant applications using containerized implementation
- * Storage backup services and
- * Cloud VM and infrastructure as a service (IAAS) solutions

Key Solutions currently available include;

- * Smart Business (Business management software)
- * Smart Storage (Information management and storage)
- * Smart Communications (Personalized email solutions)
- * Smart Analytics (Business intelligence software)
- * Smart Office (Customized open-end office suite)
- * Smart Commerce (E-commerce platform)

Other specialized solutions to be provided include; RFID based solutions, Location based solutions and Petroleum industry stock management solution.

Payment Platform

Remcash is a mobile first fintech that enables customers to pay bills and send remittances to family and friends using a number of payment options including local payment methods.

The service offers pay-out options including the regular instant cash pickup from agents, bank deposits with partner banks, transfers to mobile wallets and delivery within the remotest areas in the pay-out country. It also offers users the opportunity to do various transactions via either their bank cards or through the use of QR codes.

A key feature of the Remcash offering is that it allows customers to send smaller denominations than most money transfer services will allow.

Fintech Platform

Fortek Financial Hub Limited is Financial Platform Services Provider focused on enabling incumbent financial institutions, fintechs and other corporations to bring new financial solutions to market.

Fortek's overarching drive is to evolve the digital banking landscape by enabling financial institutions and fintechs to bring new payment solutions to the market. We are therefore open to either develop tailor made solutions or integrate any of our Banking-as-a-Service solutions with the existing apps of financial institutions, fintechs and other corporations.

Our approach is to put the customer first in all we do. This means providing cost effective but key and relevant solutions that are flexible and simple for our customers to use. To do this we connect our customers to an ecosystem of key integrations with other key stakeholders within the financial services and allied services sector to make the overall experience of our customers simpler, quicker and easier.

PROJECTS-
OUR FORTE





Our Forte

We aggressively seek and develop new opportunities that exploit our core competencies.

Our skilled staff have the expertise to quickly adapt the tasks at hand and make critical decisions based on the current situation, the market place, available technology and likely future trends. They are thus able to determine the viability and potential success or otherwise of each project.

Projects that pass our viability test are further developed to the point where they are certain to be profitable and thus attractive to investors so they can be funded.

We blend our business acumen, strategy and insight to ensure each project we undertake achieves the set objective irrespective of the size of the project.

Understanding the facts, risks and opportunities is only half the battle; we bring our creativity and innovation to bear in making our projects successful.

UP-COMING PROJECTS

Data Centres

Times have changed, and the demand for information is higher than ever. With the aid of technology, 21st business operations have shifted from manual processes to real-time information flow.

Ever since the internet became an everyday necessity, the demand for real-time data transmission by organizations is at an all-time high.

We aim to build state-of-the-art Tier 3 data centres in Ghana to provide all-inclusive IT services targeted at the Micro to Medium scale entities who aspire to take advantage of technology to leap-frog competition.

Our teams of highly trained and experienced professionals in diversified fields including Information Technology, Accounting, Finance & Audit and Strategic Investments are poised to consistently deliver relevant solutions and value to our clients.

Total cost for the project is estimated to be in excess of US\$95m.

Cylinder Bottling Plants

The Group is in the process of developing three (3) LPG cylinder bottling plants. The first of which will be in Tema, followed by plants in Atuabo and Kumasi respectively.

Tema Bottling Plant

The Tema facility will have a total monthly capacity of 9,000MT and will be able to fill over 51,000 LPG cylinder bottles a day.

Equipped with a fully automated LPG cylinder tracking system and an LPG cylinder maintenance unit, the facility will be able to fill steel, composite and fibre LPG cylinder types. It will have the following cylinder filling capacities across its four (4) carrousel and two (2) filling stands;

- * 2,800 cylinders per hour for 3kg cylinders
- * 3,600 cylinders per hour for 6kg, 12.5kg and 14.5 kg cylinders
- * 20 cylinders per hour for industrial cylinders

The construction is scheduled to be completed in May 2023. The total cost of the plant is estimated at USD16 million and will be financed by Arch Holdings and its financial partners.

Atuabo Bottling Plant

Construction of the Atuabo bottling facility is scheduled to start after the Tema facility. The facility will have a total monthly capacity of 9,000MT and will be able to fill over 51,000 LPG cylinder bottles a day.

It will be equipped with 4 carrousel, 2 filling stands and an LPG cylinder maintenance unit. It will have a fully automated LPG tracking system and be able to fill steel, composite and fiber cylinder types. Its design will enable it to fill 3kg, 6kg, 12.5kg, 14.5 kg and 50kg cylinders.

Total cost is estimated at USD 19m and will be financed by Arch Holdings and its bankers.

ON-GOING CONSTRUCTION/ TEMA BOTTLING FACILITY



ON-GOING CONSTRUCTION/ TEMA BOTTLING FACILITY



Cocoa Processing

Key to the Group's philosophy is identifying needs in key growth areas and providing solutions to meet those needs.

Currently less than 30% of the cocoa produced in Ghana is processed locally. Meaning lesser profit margins for the nation and people as a whole. In addition to this, there is more demand for processed cocoa globally than can be supplied presently.

The Group is thus actively working to get into the cocoa industry with the aim of;

- Providing long term supply of processed cocoa products to meet market demand
- Adding to the processing capacity of Ghana,
- Improving Ghana's value derived from cocoa and
- Improving the standard of living of its people through employment

To accomplish this, we have put in motion the processes to build an 80,000 Metric ton annual capacity cocoa processing plant aimed at processing cocoa beans into Cocoa Liquor, Cocoa Butter, Cocoa Cake and Cocoa Powder.

The first phase of this project (40,000 metric ton) will be commissioned by August 2022. In addition to the processing of cocoa beans, the Group is acquiring lands for Cocoa cultivation and will also plans to explore outgrower schemes to secure supply of cocoa beans for the plant.

Chocolate Manufacturing

We will also set up a chocolate processing facility to produce chocolate products for the retail market in Africa and Europe. We aim to package and export both semi finished and finished cocoa products produced from Ghanaian fine grade one quality cocoa beans.

The finished product line will include;

- Chocolate bar line [Dark chocolate (fruits & nuts)]
- Milk chocolate (fruits & nuts)
- Chocolate Biscuit line (chocolate coated)
- Chocolate spread

Renewable Energy

We aim to be a leader in large scale solar energy system development, designing, assembling, installation, maintenance, financing and other related services.

We are investing in infrastructure and technology for generating solar electricity.

We are currently developing Solar solutions for some of our business outlets in Ghana. The ultimate aim is to take up solar energy access programs for rural and remote communities.

KEY
PERSONNEL





200+ years
of collective experience

1. Emmanuel Egyei-Mensah	CEO - Sage, Director - Quantum Group & Cardinal
2. Damaris Tanoh-Rivers	Group HR - Quantum, Executive Assistant - Sage
3. Alex Osei-Owusu	Legal Advisor - Quantum Group
4. Yoon Ji-Hong	Technical Advisor - Quantum Group
5. Kow Ainoo-Ansah	Project Development - Quantum Group
6. Alex Amoaku	Terminal Manager - Quantum Oil Terminal
7. Isaac Bonya	Project Finance - Quantum Group
8. Samuel Bonuedie	Brands & Communications - Quantum Group
9. Anastasia Abban	Human Resource & Admin - Quantum Group
10. Sylvester Quist	Enterprise Applications - Quantum Group
11. David Agyeman	Reporting & Budget - Quantum Group
12. Innocent Eddah	Terminal Manager - Quantum Gas Terminal

OUR
PARTNERS





A decorative graphic consisting of several overlapping, wavy, semi-transparent lines in a dark red color, creating a sense of motion and depth across the middle of the page.

**House. No. 8, 2nd Rangoon Close
Off Josif Broz Tito Avenue
Switchback Road,
Cantonments, Accra**