



"50 years of refining and fuelling the nation; achievement, challenges, opportunities and the way forward."





Osagyefo unveils the plaque to mark the opening of GHAIP

BEFORE IT ALL BEGAN

Prior to the construction of the refinery, Ghana imported petroleum products from European and American refineries to meet its petroleum needs.

How it began

- Dr. Kwame Nkrumah believed that someday, Ghana would discover crude oil in commercial quantities.
- Osagyefo's vision reflected in an agreement signed in 1961 in Accra between the Government of Ghana and ENI for the construction of a refinery to spearhead Ghana's economic growth, industrial, investment and development programmes.
- AGIP Petroli designed the refinery plant, and SNAM Progetti ENI group, were the main contractors.
- The company was originally named the Ghanaian Italian Petroleum (GHAIP) Company, and incorporated as a Limited Liability Company on December 12, 1960.



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Professor Marcello
Boldrini - President
of ENI of Italy signs
document.
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- On September 28, 1963, the hydro skimming processing plant was commissioned making Ghana one of the six largest refineries in Africa in the 60s.
- GHAIP started operations in 1963 as a tolling refinery, processing crude oil from multinational oil companies for a fee.
- The authorized share capital of the company was £3,400,000 made up of ordinary shares of £ 1 each. The Government of Ghana was entitled to 50% share of the profits on the 11th anniversary of GHAIP.
- It was 100% owned by the ENI (Ente Nazionale Indrocarburi) Group of Italy.

And then

- In 1977, the Government of Ghana bought all the shares making it the sole shareholder.
- In 1990, the name changed to the Tema Oil Refinery (TOR) Limited.



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A signage showing important facts on GHAIIP
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OUR STORY

- TOR is the premier and a stellar refinery in Africa.
- TOR has evolved from a simple hydroskimming plant to a secondary conversion refinery providing the petroleum needs of the country.
- From a processing capacity of 28,000 bpsd and now 45,000 bpsd out of national demand of 65,000bpsd.
- For value addition, the RFCC unit with capacity of 14,000bpsd was commissioned in 2002 to convert residue to high-value finished products.
- Tema Oil Refinery is a viable company with highly skilled technical manpower.
- TOR remains one of the country's most valuable national assets; though it has not actualized Nkrumah's vision of becoming the base for the Petrochemical industry.
- TOR is undergoing operational restructuring to position itself for growth.



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Professor Marcello
Boldrini, President of
ENI addressing the
gathering
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OUR PRODUCTS

Our company is noted for its high quality specification in Liquefied Petroleum Gas(LPG), Gasoline, Gas oil Kerosene, Fuel Oil, Cracked Fuel Oil, Naphtha and particularly Aviation Turbine Kerosene (ATK), which meet both international and the Africa Refiners Association specifications.

SERVICES OFFERED

Product Quality Analysis for Third Parties
Storage Tankage Services for Third Parties
Loading Rack Services
Maintenance Services



Osagyefo being
conducted around the
refinery facilities

TOR YESTERDAY

Our old business model

- Crude Distillation Unit of processing capacity of 28,000 bpsd
- Procured crude oil through Letters of Credits (LCs) in US Dollars (US\$)
- Processed the crude oil into finished and semi - finished products.
- Sold the finished and semi-finished products to Oil Marketing Companies (OMCs) and for export on credit basis.
- Granted the OMCs 14-21 days credit to pay in Ghana cedis (Gh¢)



TOR today



TOR TODAY

Our new business model

- Crude Distillation Unit of processing capacity of 45,000 bpsd
- Procures crude oil through Letters of Credit (LCs) in US\$
- Processes crude oil into finished and semi finished products
- Sells finished and semi finished products to Bulk Distribution Companies (BDCs)
- BDCs open unconfirmed LCs in US dollars from Local banks to cover the purchase of the products.

We are focusing on the following;

- Human resource retention and capacity building strategies
- Implementation of the Plant Stabilization and Profit Enhancement Programmes to improve on the refinery's operations to ensure plant reliability, availability and efficiency.

Challenges

- Plant Availability and Reliability
- Consumption and Losses
- Lack of Working Capital to procure crude oil on continuous basis



TOR tomorrow



TOR TOMORROW

- Becomes the foundation for any petrochemical venture Ghana intends to embark on.
- Brings value addition to the crude oil found in Ghana and the many wells which are yet to be discovered and explored.
- Positions itself to expand and improve its infrastructure to ensure reliability of petroleum products and to meet the total petroleum needs of Ghanaians and beyond.

NEW AND ONGOING PROJECTS

The management of TOR identified and initiated a plant stabilization and profitability Enhancement programme (PSPEP) to turn around the fortunes of the refinery. A number of projects have taken place and still ongoing under the PSPEP including;

Commissioning of Boiler H-7 Project (70,000 Kg/Hr Steam Boiler)

TOR has installed and commissioned Boiler H-7 (70 tons/hr duty boiler) that ensures constant and reliable supply of steam for the refinery's operation. In addition, the newly commissioned Boiler H-7 will supplement the steam requirement of the refinery.

Commissioning of New Cooling Water Tower Project

A new cooling water tower has been constructed and commissioned for reliable and sufficient supply of non-corrosive cooling water for the refinery's processing units as well as steam turbine generators.

LPG Loading Pumps

The Refinery has installed a 6No. Vertical LPG Loading Pumps of as well another 2No. Horizontal LPG Loading pumps of higher capacity to augment the flow rate at which LPG trucks are being loaded at the loading gantry. The project is yet to be commissioned.

3,000M³ LPG Storage Tank

A 3,000m³ LPG storage tank is been constructed and commissioned to augment the storage of LPG.

Procurement of 6.5mw Generator

The 6.5MW Turbo-Generator is expected to be shipped in October to ensure reliable and dedicated power supply. A Factory Acceptance Test on the Generator was carried out and witnessed by TOR's Technical Team. Currently, TOR is in the process of acquiring an installation Contractor.

Rehabilitation of Premium former (PRF) Project

The rehabilitation of the existing PRF Unit is underway to enable processing of heavy naphtha produced at the Crude Distillation Unit into high octane gasoline (reformate) with optimum yield.

The rehabilitation works will add to productivity and

significantly reduce the financial burden of the Refinery in the procurement of Mogas (Higher octane Gasoline) for blending with other gasoline pool.

Reactivation of Automatic Gauging Systems

Reactivation of the project is in progress to ensure there is efficiency, trust and reliability in the measurement of stocks of products. The contract has been awarded to Liquid Automated Services of South Africa.

10" Diameter LPG Pipeline

TOR is working with the Bulk Distribution Companies (BDCs) to construct a 10" LPG harbor line from the oil jetty to the refinery with automated fuel transfer station. This will facilitate product transfer from TOR storage tanks to the Bulk Distribution Companies (BDCs) depots. Construction work is expected to start first quarter next year.