



PREPARED BY



EGYPT OIL & GAS MARKET

2023 SUMMARY AND INSIGHTS

February 2024



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INTRODUCTION

This coming new year marks a period of achievement in the oil and gas sector's journey to support the national economy, despite the global challenges faced by the oil and gas industry. Development efforts were made by this vital industry to improve production, preserve the environment, reduce emissions, and recover flare gas.

For the first time ever, the Egyptian oil and gas sector has marked its place on the negotiating table at climate conferences. This includes Egypt's historic milestone in hosting COP27 in Sharm El-Sheikh last year and witnessed the organization of Decarbonization

Day within the thematic days of the conference.

Additionally, the Egyptian oil and gas sector is continuing to execute various projects and initiatives to reduce and decarbonize oil and gas production processes within a comprehensive strategy targeting all stages of the oil and gas value chain, in parallel with the implementation of green energy projects and low-carbon hydrogen production. This is in line with continuing efforts to secure the needs of the local market, most notably the heavy consumption of petroleum products (diesel, octane, Liquefied Petroleum Gas (LPG), and natural gas).



BOOSTING OIL AND GAS EXPLORATION ACTIVITIES

The oil and gas sector spares no effort in promoting exploration activities throughout the Republic being the key to adding reserves for more growth. In this context, Egypt Upstream Gateway (EUG) plays an essential role in digitally promoting oil and gas bid rounds and opportunities to enhance prospects of oil and gas exploration and attract more investments.

29 Signed Oil & Gas Agreements


\$1.2 billion Minimum Investment | **\$61 million** Signature Bonus | **87** New Drilled Wells

Offered Bid Rounds Digitally Promoted by EUG Platform

2 New Bid Rounds by EGPC & Ganope

 Date September 2023	 Activity Oil & Gas Explorations
 Blocks 23	 Location The Western Desert, Eastern Desert, Gulf of Suez, & Red Sea

Results of EGAS Bid Round

 Activity Natural Gas Explorations	 Location The Mediterranean Sea & Nile Delta	 Blocks 4
 Minimum Investment \$281 million	 Signature Bonus \$7.5 million	 Minimum Drilled Wells 12

1st Brownfields International Bid Round

Fields 8	Location The Gulf of Suez & Eastern Desert	Offered by EGPC	Date March 2023
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The door for receiving bids was closed and they are being evaluated

EUG Highlights

Members
43 International & Local Companies

Bid Rounds
7 since Launching

Blocks

68

Total

21

Awarded

23

Ongoing

NDR E&P Data

+14,502

Wells

438

3D Seismic

654

2D Seismic

Merged 25,000 km² 3D Seismic Data





Reached

92,000 km²

Location

Onshore & Offshore Nile Delta & Western Desert

New Oil & Gas Discoveries

 Total	65	 Crude Oil	51	 Natural Gas	14
 Location	The Western Desert, Gulf of Suez, Nile Delta, & Sinai				

Signed Development Contracts

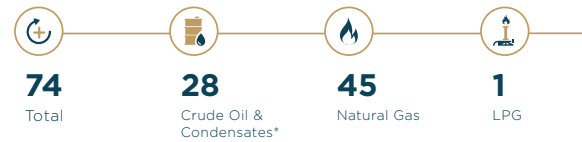
Number
14

Aim
Developing Fields in the Western Desert & Nile Delta

RAMPING UP PETROLEUM PRODUCTION

Despite the challenges, the oil and gas sector has maintained its production levels of crude oil, condensates, natural gas, and LPG, in addition to the LPG produced by refineries. This was achieved thanks to putting new projects for crude oil and natural gas on the production map.

Oil & Gas Production (mmt)



*Increased by 2% over the previous year due to putting some new wells on production, such as the North Geisum (GNN) Field in the Gulf of Suez.

Fields Development Projects

New Fields Put on the Production Map



Development of the Meleiha Deep Field (Phase 1)

The field produces natural gas by linking the Arcadia and Faramid wells complex of Agiba Petroleum Company in integration with the facilities of the Shams Complex to exploit the surplus capacity in the Salam facilities of the Khalda Petroleum Company in the Western Desert.

	Development of the Meleiha Deep Field (Phase 1)	Development of the East Damanhour Field
Natural Gas Production	40 mmcf/d	10 mmcf/d
Investment Cost	~\$26 million	\$12 million
Date	1 st Phase Completion September 2023	Started Production September 2023



The Completed Projects

	Development of the North Idku/North El Amriya Field	Development of the Teen field, North of Matrouh	Development of the North Idku/North El Amriya Field	Development of the Teen field, North of Matrouh
Natural Gas Production	-80 to 90 mmcf/d	4 mmcf/d	\$234 million	\$12 million
Investment Cost	1,200 bbl/d	1,500 bbl/d	Starting Production March 2023	Completion in September 2023
Condensates Production	4	2		
Drilled Wells				



1st Phase of the North Geisum Fields (GNN) Development

Crude Oil Production | **12,000** bbl/d | Drilled Wells | **3**

Implemented Pipeline

5.3 km Length | **10** inches Diameter | **\$23** million Investment Cost | March 2023 Production Starting Date

The Completion of 1st Phase of Linking Gases from Raven Field



SECURING FUEL SUPPLIES FOR THE LOCAL MARKET

The oil and gas sector managed to obtain full stability in the local market in 2023, by securing the local needs of citizens and different state sectors for petroleum products and natural gas.

Domestic Consumption of Petroleum Products and Natural Gas



*56% of Natural Gas was Consumed by the Electricity Sector.

ENHANCING ACCESS TO PETROLEUM PRODUCTS AND RELATED SERVICES

The Ministry of Petroleum and Mineral Resources' (MoPMR) policy aims to improve the level of services provided to citizens with easy-to-obtain petroleum and gas products. In this regard, the Ministry achieved the following in 2023:

First: Transportation and Distribution of Petroleum Products

Car Service & Fuel Supply Stations Nationwide

4,000

LPG Cylinder Distribution Centers

3,072



Second: Natural Gas Delivery

In line with the state's policy to bring about a kind of social justice among citizens, especially for those living in different governorates and regions most in need, and to reduce the citizens' burden of using LPG cylinders, the use of natural gas in homes as an alternative to LPG gas has been expanded. The natural gas delivery plans implemented during the year contributed to raising the total number of beneficiaries in addition to cutting the state subsidy offered to the consumer of LPG gas cylinders.

Presidential Initiative Haya Karima "Decent Life"

Building on the Ministry's commitment to execute the instructions and goals of presidential initiatives, the most important of which is Haya Karima, the Ministry contributes to the development of the neediest Egyptian villages and hamlets. Projects to deliver natural gas to the villages continue to achieve their goals of providing this significant service to the citizens.

Expanding the Use of Compressed Natural Gas (CNG) for Cars

Within the presidential initiative to expand the use of natural gas as fuel for cars, the MoPMR strives to expand the activities and centers work on converting cars to run by natural gas and increasing the number of gas fuel stations. During 2023, the MoPMR accomplished the following:

- The inauguration of the first mobile center for converting and maintaining cars run by natural gas, prepared with all tools, equipment, and manpower needed for the conversion process.
- Increasing the average monthly sales of CNG, which is an indicator of the increase in the number of converted vehicles and the desire of citizens to use gas as fuel for cars.
- Several facilities and promotional offers were set to encourage citizens to convert their cars to run on natural gas such as allowing them to pay the cost of conversion in installments through various and flexible interest-free installment systems, which in addition include providing incentives to customers.

Delivering Natural Gas to Households

Residential Units **15 million** | Urban Natural Gas Services Beneficiaries **>62 million Citizens**

Newly Connected Areas in 2023 **50**

Natural Gas Delivery to Commercial Units & Factories

1,316 Commercial | **58** Factories

Natural Gas Delivery Through "Haya Karima" Initiative

Villages **404** | Users **1.6 million**

Extending Natural Gas Networks to Villages | Current **841** | Planned **537**

Expansion of CNG Usage

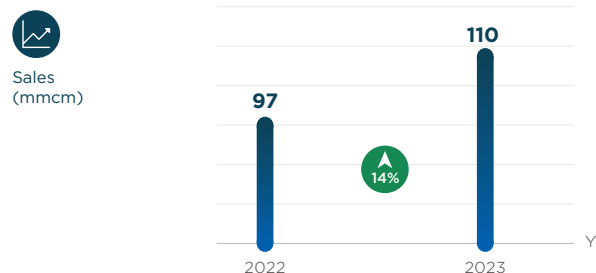
Fuel Stations **1,000** | CNG Vehicles **540,000**

1st Mobile Center for Converting Cars into Natural Gas

Inauguration Date **March 2023** | Current Cargas Mobile Centers **2**

The First of Its Kind in the Middle East

CNG Average Monthly Sales





Handing Bunkering Licenses



Aim

Practicing the Services of Bunkering Ships in Egyptian Ports



Company

1st License

Minerva Group

2nd License

Peninsula International Company



Port

Port Said

Egyptian Ports on the
Mediterranean Sea

THE EVOLUTION OF OIL REFINERIES

Within the oil and gas sector's ongoing strategy to develop and modernize oil refineries, the sector has come a long way in completing refinery projects.

Completed Refinery Projects

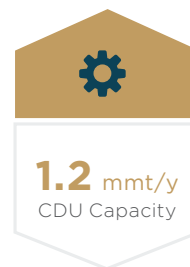


These projects aim to produce high-quality petroleum products to secure local market needs and reduce their imports. With this regard, trial operations are underway for the Middle East Oil Refinery (MIDOR) expansions to enter the production phase.

These expansions aim to increase the refining capacity by 60% to produce high-quality petroleum products that conform to European specifications, Euro5.

This is in addition to executing the diesel production complex of Assiut National Oil and Petrochemicals Company (ANOPEC) in Assiut, the refinery expansions of the Suez Oil Processing Company (SOPC) as well as a project to establish a new Atmospheric Distillation Unit (CDU) at the Assiut oil refinery.

Completion of Nasr Petroleum Company's CDU Project



PETROCHEMICALS, HYDROGEN DERIVATIVES AND BIO-BASED PRODUCTS

Within the persistent role of the oil and gas sector to promote and implement a large package of new petrochemical projects, the year witnessed commencing projects to increase value-added products and support local production of various raw materials and products. These products will be used in different fields, contributing to reducing imports and providing quantities for export to raise the dollar surplus.

For instance, projects' procedures to maximize added value in the New Alamein and Damietta regions were initiated. The projects included metal silicon and sodium carbonate (soda ash) production complexes in New Alamein, and the green ammonia and green methanol projects in Damietta.

- Soda Ash Production Project

This project targets producing soda ash (sodium carbonate) and its derivatives to be used in many industries to produce glass, soap, detergents, medical products, food and beverages, animal feed, fertilizers, and others. The founding assembly of the Egyptian Soda Ash Company was held on January 29, 2023.

- Green Ammonia Production Project

The MoPMR is partnering through its affiliate companies with global company Scatec (as a global leader in renewables) to implement a green ammonia production project, with a capacity of 150 KTPA. It is worth mentioning that in August 2023, the Damietta Company for Green Ammonia was established in the public free zone in Damietta to implement the project. The company was the first to be established electronically in Egypt, within the first phase of an integrated system to establish companies through the electronic portal of the General Authority for Investment and Free Zones (GAFI).

At COP28 hosted in Dubai in December 2023, the project's shareholders agreement was signed between Misr Fertilizers Production Company (MOPCO), Egyptian Petrochemicals Holding Company (ECHEM) and Scatec.

This is in addition to continuing various implementation stages of Medium Density Fiberboard (MDF) production projects from rice straw, the production of methanol derivatives, and the production of bioethanol from molasses, with a total investment of about \$630 million.

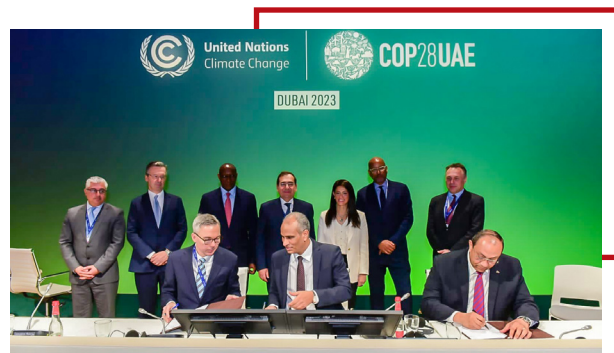
Initiated Projects



- Silicon Metal Complex Project

This project aims to produce metallic silicon to meet the needs of the Egyptian industry, as well as save millions in hard currency spent to cover import costs and achieve the maximum possible benefit from the natural resources and raw materials available in Egypt, including high-purity quartz raw materials. The founding assembly of Al-Alamein Company for Silicone Products was held on May 8, 2023.

Project	Target Production (t/y)
Soda Ash Production Project	600,000
Silicon Metal Complex Project	45,000
Green Ammonia Production Project (MOPCO-Damietta Company)	150,000





Green Methanol Production Project:

The MoPMR is collaborating through its affiliate companies with Scatec to study establishing Egypt's first green methanol utilizing biogenic carbon dioxide from the sector's bioethanol project, with total investments potentially reaching up to around \$2 billion for production of 200,000 tons per year (t/y) of green methanol. The green methanol will be utilized as a green shipping fuel. During sidelines of COP28, a memorandum of understanding (MoU) was signed between the MoPMR and General Authority for Suez Canal Economic Zone and Scatec to cooperate for implementing green fuel bunkering activity at East Port Said Zone related to this project.

This project will leverage Egypt's potential as a hub for green bunkering and would support placing Egypt on the map of green shipping corridors, capitalizing on the importance of the Suez Canal as a navigation artery and major path for global trade movement.

- Methanol Derivatives Production Project

The project aims to establish a factory to produce formaldehyde derivatives and sulphonated naphthalene formaldehyde (SNF), which are used in many uses, based on methanol produced by Methanex Egypt, urea produced by Misr Fertilizers Production Company (MOPCO), and caustic soda produced by the Egyptian Petrochemicals Company (EPC).

Methanol Derivatives Production Project

Company Suez Methanol Derivatives	Production Target 87,000 t of formaldehyde derivatives 10,000 t/y of sulphonated naphthalene formaldehyde (SNF)	Location Damietta	Investment Cost \$120 million
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- MDF Project

The project aims to produce MDF to meet a part of the local market needs in addition to reducing the environmental pollution resulting from burning rice straw.

MDF Project

Company WOTECH	Production Target 205,000 m ³ /y	Raw Materials 245,000 t/y of Rice Straw
Location Beheira	Investment Cost €351 million	

- Bioethanol Production Project

The project aims to produce bioethanol and vinasse to be used as animal feed to meet part of the local market needs while exporting the surplus.

Bioethanol Production Project

Production Target 100,000 t/y of bioethanol 130,000 t/y of vinasse	Investment Cost \$120 million
Using 420,000 t/y of molasses	Location Damietta Port



H.E. The Minister of Petroleum and Mineral Resources Tarek El Molla and Hailiang Song, Chairman of the China Energy Engineering Corporation (CEEC), have witnessed the signing of two MoUs between China International Energy Group (CIEG), the Egyptian General Petroleum Corporation (EGPC), and the North Abu Qir for Agricultural Nutrients Company.

The first MoU includes enhancing cooperation in establishing a joint project to produce green hydrogen at the North Abu Qir Agricultural Nutrients Company.

The second MoU includes examining opportunities to deepen the benefit of renewable energies in various oil and gas sites in Egypt.

The Minister of Petroleum and Mineral Resources Tarek El Molla has also witnessed the signing of a MoU between the Abu Qir Fertilizers Company, ABB International Group, MPS Infrastructure Company, and Petrojet, which aims to supply the North Abu Qir for Agricultural Nutrients Company the green hydrogen and renewable electricity needed to produce green ammonia for production of green fertilizers.

ENHANCING INFRASTRUCTURE PROJECTS CAPABILITIES

Crude Oil Transport Line Projects

The execution and operation of the transport line (Badr/ Mostorod) were accomplished to enhance the efficiency of the network and increase crude oil graduation rates to refineries.

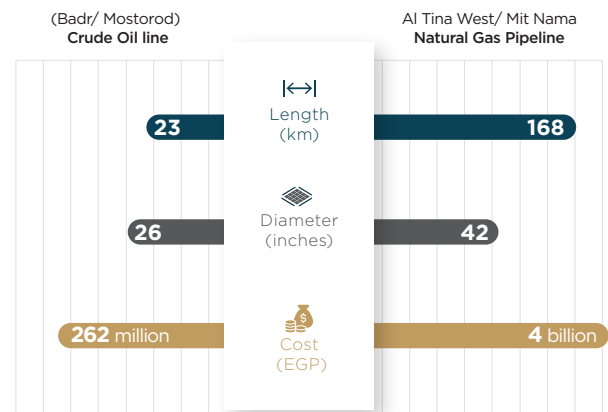
Natural Gas Pipelines Projects

The implementation and operation of the double pipeline Al Tina West/ Mit Nama was completed to transport gases from the Zohr field region and strengthen the national network in South Egypt.

Storage Warehouse Projects

The 8th storage warehouse project was completed in El-Alamein and managed by the Western Desert Operating Petroleum Company (WEPCO).

Implemented Transport Lines Projects



Completion of 8th Warehouse Project in the Hamra Petroleum Port

Capacity: **660,000** bbl | Total Cost: **\$34** million

Objective: Accommodate the increasing crude oil production in the Western Desert Increase the crude oil storage capacity to 2.25 mmbbl



GROWING LOCAL MANUFACTURING AND GLOBAL EXPANSIONS

The oil and gas sector's policy is to maximize the local market's role in its projects, which is a key strategy that supports plans to accelerate the projects announced this year.

This year marked the completion of the first locally manufactured oil rig (Made in Egypt). It has been delivered to the Egyptian Rig Company (ERC) to operate as part of its fleet in implementing drilling and prospecting programs in onshore areas.

Rig manufacturing is a new successful step on the way of local manufacturing for the requirements of oil and gas projects, and increases the local compound pursued by the MoPMR in its strategy which helps in reducing imports and saving expenditure in foreign currency. It also promises to work on the manufacturing of rigs to contribute to the needs of the local market and then exports.

Manufacturing the First Egyptian-made Oil Rig



Investment

\$6.5 million



Manufacturing Factory

The Egyptian-Chinese Drilling Company



Location

Ain Sokhna

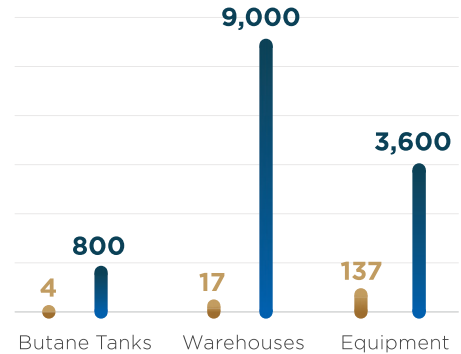
Other Milestones

- Opening the specialized workshops of Petrojet for producing and manufacturing in the Assiut Petroleum region, provided with the latest capabilities of machinery and equipment. These workshops meet the needs of the new projects in the Assiut Petroleum region by manufacturing LPG tanks and warehouses in water treatment for the ANOPEC diesel complex, along with the high-valued petroleum products being established, and equipment for production units at Assiut Oil Refinery.

- Egypt Gas Company has inaugurated its main workshops and warehouses in the Abu Rawash region after developing it. This region is one of the logistics support areas that meet the needs of the National Project for Delivery of Natural Gas to Households and Villages.

- Petrojet signed the general contractor contract with Saudi Aramco Base Oil Company-Luberef for Yanbu production facilities (Growth II) in Saudi Arabia, valued at SAR 555 million.

● Number
● Weight (t)



- Laying the foundation stone for a number of ongoing development and expansion projects at the port implemented by WEPCO within the framework of the strategy for the development of the sector's infrastructure.

Petrojet Manufacturing Workshops



Capacity

1,800 t/y



A VISION FOR SUSTAINABLE ENERGY TRANSITION AND EMISSIONS REDUCTION

In line with the holistic approach for sustainable development, decarbonization and transition to low carbon energy sources were embedded within these strategic pillars to complement Egypt's oil and gas sector activities in this respect. Accordingly, the sector is working to promote decarbonization activities, monetize decarbonization opportunities and instill a sector wide focus on decarbonization.

The sector is working on decarbonization and energy transition through six main pillars including energy subsidy reform, decarbonized natural gas to complement renewables, energy efficiency, carbon intensity reduction, renewables and green petrochemicals and low carbon hydrogen.

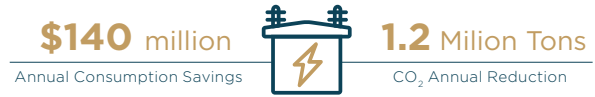
CO₂ Annual Emissions Reduction

Million Tons CO₂e Through

1.1	Delivering Natural Gas to about 15 million Residential Units
1	Converting about 540,000 cars to run on CNG*
1.4	Flare Gas Recovery Projects
1.2	Energy efficiency projects/measures

*Since Starting the Activity

Energy Efficiency Projects



Major Achievements

- Completing the implementation of the sector's energy efficiency strategy (2022-2035).
- Finalizing the sector's low carbon strategy
- Continuing activities of methane abatement in light of the Sharm El-Sheikh Oil and Gas Methane Reduction Roadmap in the oil and gas industry, which was announced during Decarbonization Day at COP27.
- Inaugurating the trial operation of the smart treatment station for industrial wastewater at the Amal Petroleum Company (AMAPETCO) production site, which is the first of its kind in Egypt and the Middle East. It serves oil production operations, preserves the environment in the Gulf of Suez, and achieves the outcomes of the COP27.
- Continuing construction of the MDF production complex project from rice straw by Wood Technology Co. (WOTECH), is an important step to reduce emissions resulting from burning rice straw by using it as an input for manufacturing the Wooden Board.
- Signing a joint development agreement between Alexandria National Refining and Petrochemicals Company (ANRPC) and Norwegian Scatec to begin implementing the green methanol production project, to be the first of its kind in Egypt and the Middle East. It is a new move that reflects the progress of the sector on the path of implementing green energy projects and low and zero-emission fuels.
- Signing several agreements with Scatec on the sidelines of COP28 regarding cooperation in implementing bunkering projects and green ammonia and green methanol production projects in the sector.





DIGITAL TRANSFORMATION REMARKABLE PROGRESS

Within the journey to modernize the oil and gas sector, digital transformation plays a crucial role in developing all processes across the value chain. Several inspirational projects have been implemented in partnership with international companies operating in the sector.

Digital Transformation as a Key Enabler of Unprecedented Levels of Securing Fuel Supplies

In recent years, modern technologies have redefined the monitoring and control discipline and presented smart solutions for long aspired real-time nonstop monitoring of hydrocarbons over the entire stages of the value chain; in custodies, in transport, and in distribution outlets, either commercial facilities or industrial customers.

Embarking on the ambitious strategy of the MoPMR that encourages the utilization of proper modern technology in every possible field of application, the Egyptian oil and gas sector continues to reap the benefits by achieving success in the implementation of the Automatic Tank Gauging system across a scale of fuel stations in the Egyptian territory and the Radar Tank Gauging system in selected numerous storage locations. These two achievements realize an important milestone along the continuing journey of achieving real-time full-encompassing custody measurement systems across the integrated networks of hydrocarbon movements.

When complemented with the activation of the GPS Automated Tracking System, and the inauguration of the modern mobile application "MOP Stations" the visibility over the downstream network has reached unprecedented levels.

Pursuing the full integrity of visibility systems, actions have taken place to connect the geographically dispersed control rooms of the distribution companies, first to the central control rooms of the mother companies, then to the main control room of EGPC, which feeds the central monitoring platform of MoPMR. Not only real-time accurate monitoring of the hydrocarbon stocks in remote warehouses and stations, but also consumption patterns and trends are now displayed real-time on central screens in the offices of decision-makers, enabling swift actions to satisfy steady and ad-hoc demands for petroleum products in any remote area.

Two other major achievements related to visibility and control have materialized. The inauguration of the first digital system to follow up on the operations of trading and distributing LPG, and the establishment of the central control room of digital refinery operations which is equipped with state-of-the-art technologies and employing smart logic, one of which is linear programming, that enable the refineries to work according to optimized supply chain planning and scheduling decisions.

The dedication and the harmonization to realize the above objectives, as part of the continuing journey of digital transformation, have made it possible to achieve important goals towards securing the fuel supplies nation-wide that have long been aspired

Inauguration of the Petroleum Products Trading System

Date
Q4 2023

Location
New Administrative Capital

Through
EGPC, Copetrole, Misr Petroleum Company and Nile Petroleum Marketing Company

Inauguration of the 1st Digital Gateway for Mining



Aim

Promoting bid rounds
Marketing investment opportunities and exploitation flexibly and rapidly

Continuing the Implementation of Key Digital Platforms

Embarking on the key achievement of implementing the first Enterprise Resource Planning (ERP) based on SAP S/4HANA covering key business operations in EGPC and all the four affiliated refineries that went live in 2022, the ERP is being extended to cover the public sector distribution companies.

Such successful implementation of the ERP in EGPC and the public sector along with the numerous other companies in the oil and gas sector that have already achieved, or either vividly in pursuit of, this cornerstone system, the way is paved toward a future of fully digitalized business operations in each working company and the unification of key business processes across the entire landscape of oil and gas entities. Besides, this eager pace of rolling out ERP serves as a key enabler to integrate the logistical and financial business operations securely and efficiently in the

headquarters with the industrial measurement and control systems in the fields.

In the same respect of key digital platforms, the SCADA central control room for the Egyptian Pipeline Company (PPC) is under implementation and bears the promise to realize the aspired levels of visibility and control for the crude and petroleum products.

The unified platform of the Geographical Information System (GIS) is yet another key digital platform that has successfully been completed. With this key step the integrated information system for oil and gas fields across the Egyptian territory becomes possible.

The Egyptian oil and gas sector is capable of continuing the journey of digital transformation, achieving sustainability, and preserving the main principles of the sector in a way that maximizes achievements in the ongoing work journey.

SECTOR'S INTEGRATED STRATEGY FOR CSR PROGRAMS

Within the framework of the oil and gas sector's strategy to achieve and implement the Sustainable Development Goals in light of "Egypt Vision 2030" encompassing economic, environmental, and social dimensions, and to unify the sector's efforts to improve the quality of living conditions of the local community, the MoPMR has made concrete efforts to develop the social responsibility system through the following actions:

- Developing a unified strategy for corporate social responsibility (CSR) for national and international oil sector companies, which includes four main pillars, education, training and economic development, health and gender equality, environmental protection projects and initiatives, and participation in presidential initiatives.
- Establishing a guide to implement the strategy to define the roles and responsibilities of the involved parties, determining the mechanism for preparing and implementing annual plans, and for documentation, follow-up, and preparing periodic reports.
- Establishing an internal structure through the formation of a Higher Committee for Social Responsibility headed by H.E Tarek El Molla and the membership of sector leaders. In addition, a Technical Secretariat was implemented to follow up on the progress of the plans and projects. Moreover, departments and specialized committees for CSR were established in all sector companies.



Major CSR Projects during (2023 - January 2024)

Several national and international oil companies have played a pioneering role in implementing community projects and initiatives in all governorates. In this regard, a lot of projects and community development initiatives have been launched in the fields of education, training, health, and environment, in cooperation with some civil society organizations.

- First Pillar: Education, Training, and Economic Development

Operating the Sidi Kerir Petrochemicals Company (SIDPEC) School of Applied Technology in Borg El Arab in Alexandria, starts with 40 students in the first academic year, through the contribution of the company to eliminate the school dropout phenomenon.

Further, two community schools (Baayou and Awlad Hamad) were inaugurated in Fouka village in Matrouh. This initiative was made possible by the contribution of Kuwait Energy Company, and it aims at supporting the educational journey of 87 children within the community schools, where the nearest schools in these areas are more than 12 kilometers (km) away in the desert.



- Second Pillar: Health and Gender Equality

- Supporting several hospitals and health units by delivering medical devices and supplies, some assistive devices, and special equipment for operating rooms and children's incubators to hospitals nationwide, such as Fayoum General Hospital in Fayoum through Petrosilah Company, and supporting the health unit in Al-Qasr village in Matrouh through Al-Alamein Petroleum Company. Moreover, supporting Assiut General Hospital and Manfalut Central Hospital through the Nile Petroleum Marketing Company in Assiut.

- Conducting a training course to develop the skills of 40 Egyptian doctors in neonatology within the "Thousand Golden Days"

Presidential Initiative for developing family and parental awareness in Hurghada and Safaga in the Red Sea. This came through the contribution of Amal Petroleum Company (AMAPETCO), in cooperation with the Egyptian Association of Members of the British Royal College of Pediatrics and the Directorate of Health Affairs in the governorate

- Third Pillar: Environmental Protection Projects and Initiatives

Implementing a biofuel (biogas) production project in Upper Egypt through ANOPC to provide biofuel to beneficiary families in 30 houses and produce organic fertilizer. Biogas units were established in Bani Sanad village in Manfalut in Assiut.

- Fourth Pillar: Participation in Presidential Initiatives

This pillar focuses on implementing projects in cooperation with the Orman Association to support the most vulnerable families by rehabilitating or rebuilding homes. This is in addition to implementing micro projects to provide better living conditions to women and people living with disabilities. This pillar's projects include:

- Development of Hajar Al-Maris village, Al-Toud District in Luxor. The project includes the reconstruction of 21 houses and the implementation of small projects through the South Valley Egyptian Petroleum Holding Company (Ganope).

- Conducting a comprehensive development project to rehabilitate 15 houses, develop the health unit, and implement small projects to empower women in the Wadi Al-Qamar region, Alexandria Governorate, through the contribution of the Egyptian Linear Alkyl benzene Company (ELAB).

- Inaugurating the Nag al-Arab village development project in January 2024, through the New Valley Company for Mineral Resources and Oil Shale (Wadico). The project includes demolishing and rebuilding many houses in the village and connecting them with water and electricity. This is in addition to equipping them with furniture and electrical appliances. Moreover, small projects were implemented, and several medical care services, ranging from performing heart and eye surgeries to providing prosthetic devices.

UNLEASHING THE MINERAL RESOURCES RESERVOIRS

In 2023, the development and modernization program for the Egyptian mining sector has taken remarkable steps to achieve its objectives by creating an attractive environment for mining investments, supporting the digitalization of the sector and investing in human cadres. All efforts aim at releasing the capabilities of the mining sector and making the best use of Egypt's mining resources. Thanks to these efforts, milestone results were achieved as follows:

The MoPMR has reached an agreement with the Canadian company Barrick Gold, in addition to the UK-based company, Centamin, in line with commercial, financial and legal terms of mineral exploitation contracts.

Starting Commercial Production Trials from Eqat Mine

Date	Production	Reserves	Extraction Rate
March 2023	Commercial Gold	1.2 million ounces	95%

Mining and Raw Materials Production in 2023



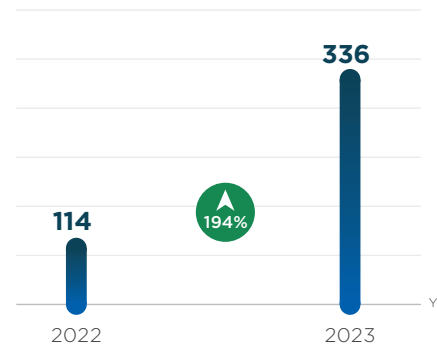
These two companies won bids for exploring for and exploiting gold and associated minerals within concession areas in the Eastern Desert. This agreement is considered one of the milestones of the mining sector's modernization and development program, especially since the two companies have remarkable experience, financial solvency and the needed technologies.

The operation experiments for commercial gold production as an honor for the ambitious plan set for the early start of production from the mine thanks to its distinguished location. The discovery is considered a result of pure Egyptian investments in the gold mining field. Besides, the joint operating company (Eqat Gold Mines) has been established and the amount of gold produced has reached about 45 kilograms (KG) from different karats.

Production-Sharing Contracts Development



Revenues (EGP million)





Other Milestones

- In July 2023, the second edition of Egypt's Mining Forum was launched under the slogan: "Building Upon 120 years of geological discoveries, for a decarbonized and sustainable future". The forum made remarkable outcomes represented in the increase in the number of people interested in investing in the mining sector.
- A cooperation protocol was signed between the Egyptian Mineral Resources Authority (EMRA) and the General Authority for the Golden Triangle Economic Zone to work jointly on exchanging the required expertise in the mining field within the Golden Triangle region, in addition to consulting on preparing the general requirements and rules which are necessary to obtain licenses for doing mining activities in the region. This helps promote investment opportunities in Egypt's natural resources in the Golden Triangle.
- Two MoUs have been signed to begin the procedures for a phosphoric acid production plant project, that aims to maximize the added value and return of Egyptian phosphate with the Australian company; Lionsbridge, during the Egypt Mining Forum. An MoU was signed between the General Authority of the Golden Triangle Economic Zone and the Egyptian Phosphate and Lionsbridge companies to implement and operate a factory project, Phosphoric acid in the Golden Triangle Economic Zone. Another MoU was signed between Egypt Phosphate and the Australian company to supply the phosphate ore needed for the project.
- Signing a research contract between the EMRA and the Lotus Gold Corporation in three sectors to search for gold ore and associated elements in the Eastern Desert, with investments of about \$2.5 million.
- Launching the implementation of a digital platform for the field of mining and mineral resources in Egypt, similar to EUG, where the mining portal will contain all the geological data and maps needed for investors to facilitate the representation of investment opportunities in the field of mineral resources in Egypt. It also aims to promote bids and attract investments, and it has already completed the technical evaluation processes for the portal.
- A database for the mineral resources in Egypt has been created, where the data of 27 mineral ores was collected and this data is being audited as a preparation for including them within the digital platform for mining ores.
- Completion of the development of the EMRA laboratory in Marsa Alam to serve mining activities in the Eastern Desert as well as serve geological missions in the region within a program that includes developing and raising the efficiency of workers and buildings. The program also included furnishing the buildings with modern technologies and equipment to keep pace and achieve the strategic objectives of maximizing and exploiting mining resources and increasing its contribution to the national economy.
- The opening of the two MSA and ALS laboratories in Marsa Alam, for comprehensive testing of gold and basic metals of soil, rock and drilling samples came within the framework of localizing all mining activities in Egypt and enhancing the expertise of its workers.
- A cooperation protocol was signed between the EMRA and the American Chamber of Commerce in Egypt to implement the second phase of the Human Capacity Development Program in the mining sector.
- A set of different international training programs have been implemented for the cadres of the EMRA in cooperation with specialized entities in Australia, Japan and China, including the Australian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (JORC Code) for two groups of cadres, in addition to the Mining Resources and Management Development Program in developing countries with the Chinese government and also the program of Using Remote Sensing in Mining Exploration with Japan International Cooperation Agency (JICA).

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2023 SUMMARY AND INSIGHTS