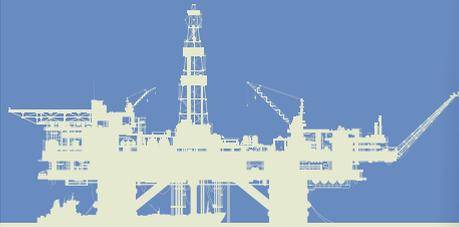


**EGPC**

**Egyptian General Petroleum Corporation**

# Egyptian General Petroleum Corporation



An economic state Corporation affiliated to the Ministry of Petroleum. It was established under the law No. **135** of **1956** which was amended by law No. **167** of **1958**, then by law No. **20** of **1976**.

## EGPC Main Objectives

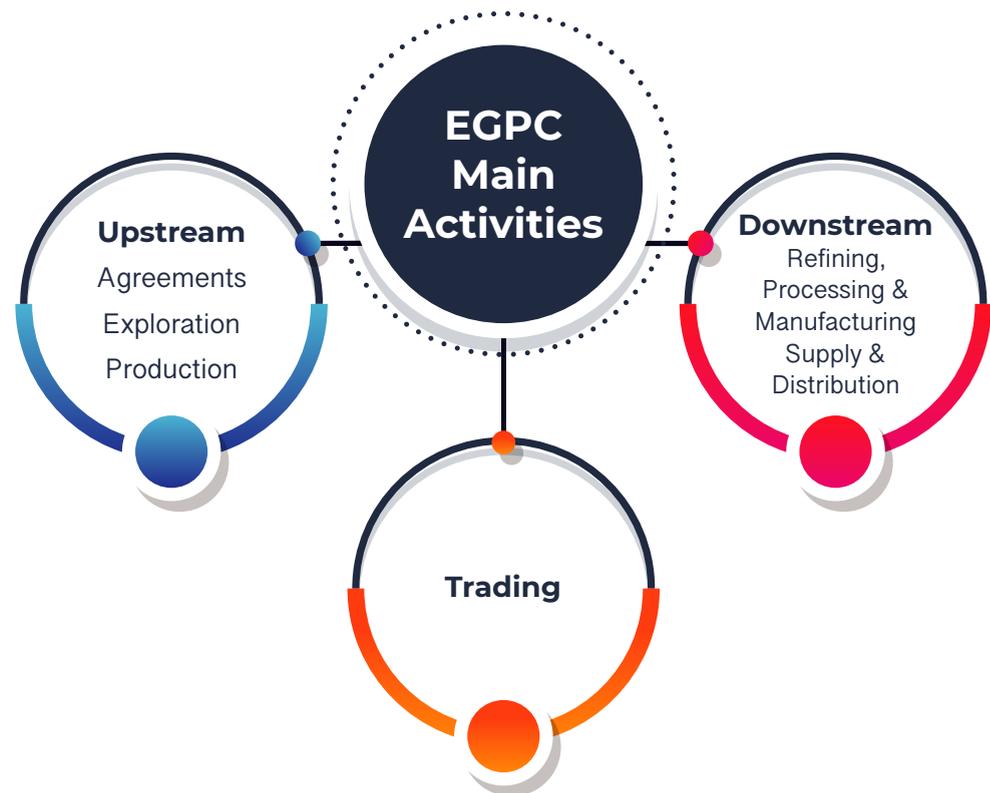
- Apply the international **HSE** standard measures.
- Satisfy local demand of petroleum products.
- Enhance exploration activities and search for extra oil potentialities.
- Maximize oil production and enhance oil reserves development.
- Maximize petroleum exports revenues.

## Mission

EGPC has a major role in developing the oil business in Egypt, and to be one of the leaders both locally and worldwide

## Vision

Diversity petroleum products and services to meet the changing needs of global market, while satisfying local demand of petroleum products



# Modernization Program

EGPC is one of the main players in the Modernization program due to its primary role in the program implementation in EGPC and its affiliated sector companies along the value chain of the **Oil and Gas Business**.

## The modernization program is working on achieving the petroleum sector strategic objectives:

- Business attraction in exploration and production.
- Increase the production capacity and maximize asset usage to satisfy local market needs from petroleum products.
- Structure reform for the sector and human resource development.
- Promoting Egypt as a regional oil and gas hub.
- Downstream activities performance optimization, including refining and petrochemical activities through upgrading and improving the refining capacities by expanding and developing existing refineries.
- Upgrade the existing infrastructure for transportation and marketing for petroleum products.
- Promote energy efficiency in administration building and petroleum fields, in addition to full support for the innovative efforts that are applicable.

The modernization program includes 7 pillars in order to fulfil the performance improvement of the petroleum sector along the value chain.

In addition to that, the modernization program is targeting the mechanism development to be aligned with the local and international changes as follows:

1- Upstream Investment attraction.

2- Sector Structure Reform.

3- HR Management.

4- Downstream Performance & Energy Efficiency.

5- Upstream Performance.

6- Egypt Oil & Gas Hub Strategy.

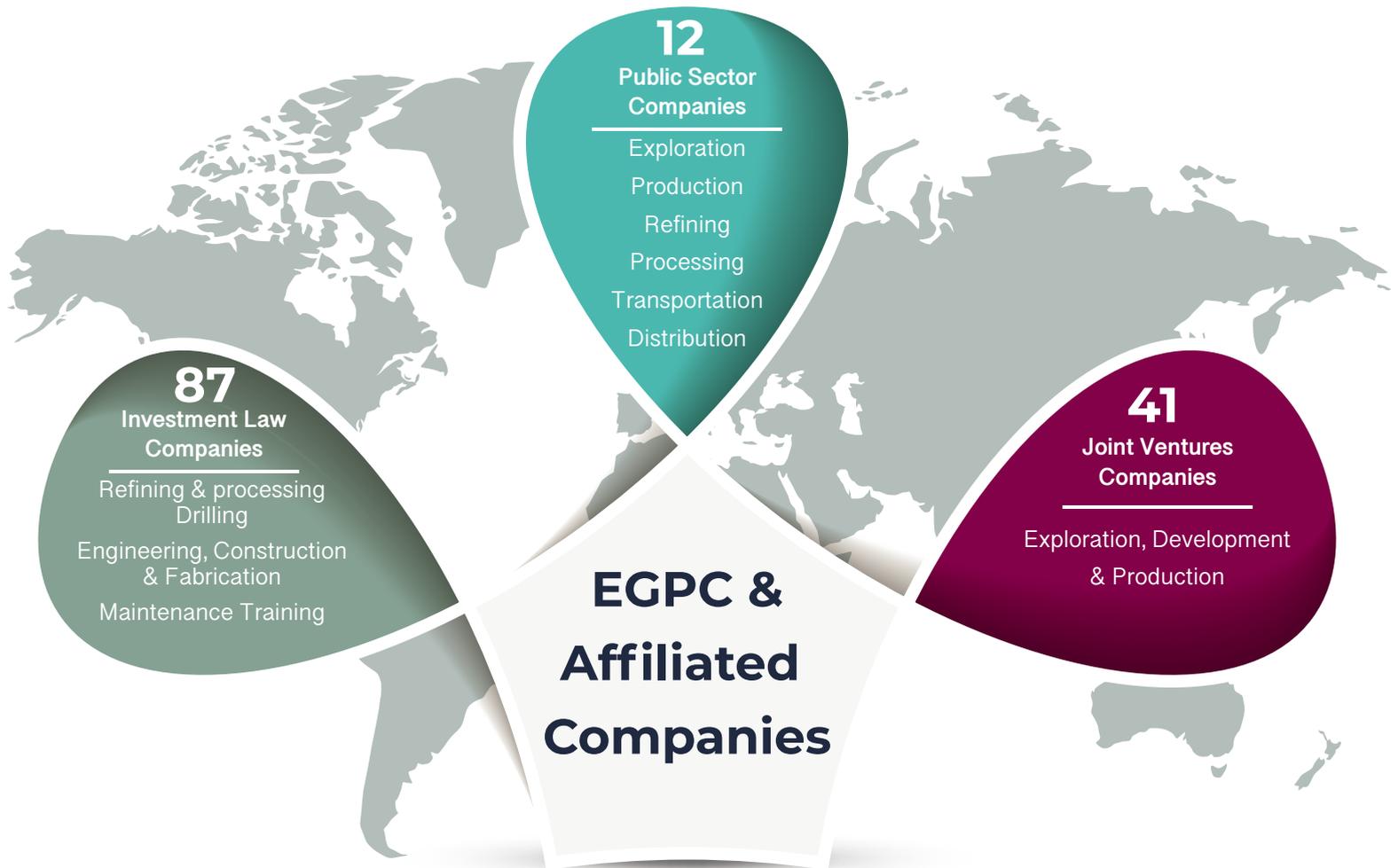
7- Decision Support and Data Flow.

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The achievements of the modernization program have positively impacted the petroleum sector performance since initialization of the project. EGPC and its affiliated companies are, in specific, impacted as they have the positive capability of facing the local and international challenges and future preparation, in addition to the best usage of all possibilities and effectively developing the Egyptian petroleum resources to keep up with Sustainable Development Strategy “ **Egypt Vision 2030** ”.

The petroleum sector has achieved, in the past couple of years, many successful actions alongside with the government financial and economic reform. Currently, the ambitious modernization program is fast tracked.

# EGPC and Affiliated Companies



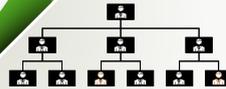
# Oil and gas sector strategy pillars

1



**UPSTREAM  
INVESTMENT  
ATTRACTION**

2



**SECTOR  
STRUCTURE  
REFORM**

3



**HR  
MANAGEMENT**

4



**DOWNSTREAM  
PERFORMANCE  
& ENERGY  
EFFICIENCY**

5



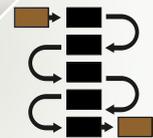
**UPSTREAM  
PERFORMANCE**

6



**HUB  
STRATEGY**

7



**DECISION  
SUPPORT AND  
DATA FLOW**

# Health, Safety and Environment

- Participate in the investment and planning budgets concerning HSE for both public, and JVs companies, followed by continual monitoring and reviews.
- Ensure continual improvement in health, safety, environment management, and process safety so that accidents are reduced to zero pollution, harmful emissions, and waste are prevented, and using of energy is optimized.
- Investigate the accidents to identify the direct, indirect and root causes of accident, and sharing the lessons learnt with companies to avoid reoccurrence of accidents in future.
- Promote the using of the latest available technologies in different companies' processes and projects.
- Drive HSE improvements by setting objective approach as well as reviewing monitoring, and auditing performance.
- Work with our stakeholders in all HSE and process relevant issues.

**H**

**HEALTH**

**S**

**SAFETY**

**E**

**ENVIRONMENT**

# Health, Safety and Environment

EGPC recognizes that the protection of health and safety of the people, environment, and the process safety is an integral part of its business performance and a prime responsibility of our entire workforce at every level. EGPC is committed to achieve world-class HSE performance in accordance with local HSE legislatives, industry standards, and best practices.

**This done through the following:**

- Protect people, prevent pollution, and safeguarding the assets.
- Continue the audit on the downstream, midstream, upstream companies and contractors to ensure the effective implementation of the HSE and process safety management system.
- Follow and review the status of EGPC companies to comply with all applicable HSE laws, regulations, international industry standards and other internal mandatory requirements.
- Manage contractors effectively to comply with all applicable safety, health, environment and process safety requirements.
- Activate and review the role of the geographical committees in petroleum producing regions at the level of the republic respond to emergencies.
- Comply with digitalizing strategy by implementing HSE software module in affiliated companies to acquire HSE KPIs into unified single core database in order to improve HSE performance.
- Ensure that our HSE management system and process safety management of the companies reflect the best industry practices and properly resourced.

# Agreements Activities



Fair competition in bid Rounds

**Flexibility** to use production Guarantee or Bank Guarantee.



**Agreement** are issued by law.

**Dynamic** terms and conditions to support balanced Agreement and win-win situation.



EGPC Pays royalties and taxes on behalf of the Contractors.

**No discount rate** for domestic market.



**Contractors'** share is paid in kind or in cash.

**Follow up** of issuing new laws and amendments.



**Promote** and add values to open areas.





## EUG BENEFITS FOR INVESTORS



**Data** trading for proprietary data



**Online** data visualization & delivery



**Faster** & easier access to data



**Access** to trusted data



**Securely** manage confidential data



**Global** access through the EUG portal



**Virtual**, physical data room & online bid rounds submission



**Evergreening** G&G studies

<http://eug.petroleum.gov.eg>

# Exploration Competences

- 1 More than **65 Years** of Experience in Exploration.
- 2 Huge Yet to find **Oil & Gas** reserves.
- 3 Apply Advanced technologies like broad band seismic & **Multi-Client** Projects
- 4 Accepting **Challenge & High Risk** Portfolio.
- 5 High success ratio (**POS about 30%**) & Different Play Concepts.
- 6 **Fast Development** Lease issuing procedures.

**Egypt Upstream Gateway**” is an integrated digital platform for all **E&P** data to preserve legacy data, manage the active data, promote the upstream opportunities and attract new investments through international bid rounds.

**Vision:** “Optimizing the value of **E&P** data by attracting global investment to the upstream sector to boost production”

**Mission:** “Build a fully integrated platform for Egypt to enable seamless data access and offer the opportunity to explore new plays, prospects and evaluate basins’ potential”

# Production main role

- Set up the master plans for oil production, and works hand in hand with joint ventures companies to fulfil these plans and reach the maximum oil production rates which has a great impact on Egypt's Economy.
- Participating in the preparation and evaluation of the EGPC Bid Rounds.
- Monitor new discoveries and works on putting them on the production map, and participate in the formulation of the development contracts and the formation of the joint venture companies, as well as monitor all the operations carried out by the company in all various stages.
- Set up development plans for new exploration areas, provides alternatives for crude oil transportation based on the comprehensive vision of the capacity of the used facilities. Work on optimal utilization and raise the efficiency of facilities. Resolve the bottlenecks of oil and gas transmission lines in production areas, and monitors development operations.
- Conducts feasibility studies for oil and gas production processes, and economic studies for exploration and development areas. Monitors and analyze global demand, local economic trends, and local and international market. Prepare short and long term plans, conduct technical and economic evaluation of contractors' proposals and participate in amending the petroleum agreements, as well as participate in different pricing committees, the most important of which is the pricing of natural gas.
- Monitors drilling, completion, workover operations, and develops the main policies for the movement of drilling equipment through coordination between the drilling companies and the production companies. Review and approve drilling programs, and permanent and temporary abandonment programs for all exploratory and development wells.

- 
- Helping in securing exploration and joint venture companies needs from drilling and work-over rigs ( land and marine ), material and contracts. Manage and satisfy rig needs for all companies. Provide technical support for drilling and work-over operations through sharing experiences.
  - Monitors production operations in companies, uses the best ways to increase the production, work to apply the state-of-the-art technologies in oil and gas wells, and follow up oil produced from wells to separate the unwanted components through mechanical or chemical methods.
  - Review the production studies of gas and its derivatives in joint ventures companies and investment companies in cooperation with EGAS. Maximize the usage of gas facilities, and reviews the invoices of the contractor's share of gas and its derivatives through the concession agreements in addition to maximizing the usage of flare gases and fuel in the companies.
  - Study the reserves, adopts the state-of-the-art technologies to increase the production and increase the reserves. Develop different prospective of future production quantities.
  - Reviews technical and commercial tenders of the exploration and production companies to ensure competitiveness among these service companies and to control prices.
  - Monitor the performance of the service companies registered in EGPC, assess their performance and follow them up periodically in addition to evaluate new companies wishing to work in the companies affiliated to EGPC.

# Refining and Processing

Refining and Processing Department at EGPC is responsible in accordance with the law of its establishment for providing all the petroleum products for the whole country. The petroleum sector is currently facing great challenges in providing petroleum products to achieve sustainable development plans in all economic sectors of the Arab Republic of Egypt. The increase in demand for all these products is resulting from the continuous increase in population as well as the high rates of development in the past few years.

Egypt is considered the largest African country in terms of refining capacity, as it has 7 refining plants with a total refining capacity of about 38 MM ton.

1. Alexandria Petroleum Company ( **APC** ).
2. Amreya Petroleum Refining Company ( **APRC** ).
3. Cairo Oil Refining Company ( **CORC** ), ( **Two sites** ).
4. Suez Oil Processing Company ( **SOPC** ).
5. Nasr Petroleum Company ( **NPC** ).
6. Assiut Oil Refining Company ( **ASORC** ).
7. Middle East Oil Refinery Company ( **MIDOR** ).

**In addition to five other investment companies:**

1. Alexandria National Refining and Petrochemical Company ( **ANRPC** ).
2. Egyptian Linear Alkyl Benzene Company ( **ELAB** ).
3. Egyptian Refining Company ( **ERC** ).
4. Alexandria Mineral Oil Company ( **AMOC** ).
5. Alexandria Specialty Petroleum Products Company ( **ASPPC** ).



These companies collaborate in manufacturing petroleum products and applying different conversion processes in order to increase the added value for those products. As well as to provide light petroleum products such as gasoline, gas oil and LPG at the expense of heavy products with low economic value such as fuel oil. As a result of the steady increase in consumption rates for these light products, EGPC is currently planning to increase the refining capacities of refineries through the establishment of expansions in **MIDOR** to raise the capacity by 60%.

In addition to the implementation of some other projects to revamp the existing plants as well as add new processing units. Some of these projects are already taking place in:

1. Assiut National Oil Processing Company ( **ANOPC** ).
2. Suez Oil Processing Company Projects including ( **Coker Unit Rehabilitation - DHT Unit - KHT Unit - Asphalt Production Unit** ).
3. CCR Reforming at Assiut Oil Refining Company ( **Already finished** )
4. APC Upgrading Project ( **CDU with 5 Million ton Capacity + Diesel Hydro treating - Energy Conservations** )
5. New Condensate Distillation Unit at ( **NPC** ).
6. New Crude Distillation Unit at ( **ASORC** ).
7. Digital Transformation Project ( **Digitalization** )
8. Decision Support System ( **DSS. - ERP.** )

# Transportation and Distribution

- Achieve all the petroleum logistics downstream all over Egypt, by using updated technology.
- Become a leading developer in sustaining an efficient petroleum products / crude oil transportation and distribution system, which will facilitate the supply in the domestic market.
- Ensure secure level of strategic petroleum products such as LPG, gasoil, gasoline ( more adequacy days ).
- Ensure after sales services to achieve end-user satisfaction through follow up fuel stations performance.
- Play a main role in converting Egypt to be an energy hub (Sector Modernization / Program 6: Hub strategy), Hub Development projects for trading and storage of crude oil and petroleum products.
- Forecasting consumption, needs, importing and exporting for different petroleum products by setting up a schedule through different ports / terminals.
- Fulfilling crude oil feedstock needed by refineries to insure the continuity of the production processes through transporting various types of crude oil requested by each refinery from production fields, assembly points, and importing ports via different moods of transport ( pipelines and tankers ).
- Fulfilling the domestic needs of petroleum products to the different sectors like Industrial, Agricultural, Military, Commercial, Tourism, Electricity, Transportation, Service, and Governmental through different means of transportation.
- Fulfilling bunkering activities needs of different bunker grades ( HSFO, LSFO, VLSFO and MGO ).
- Setting rules, regulations for establishing new retail fuel stations and review all approvals needed.
- Setting rules, regulations for industrial customers, and review all the proposed documents for the equipment and their consumption ratio of gasoil and fuel oil.
- Make necessary studies to create new projects to develop and modernize the logistic operations to ensure reaching the max performance.
- Help in country sustainability development **2030** through any new projects that reduce the supply time or increase the resources control to reach the maximum performance.

# Planning and Projects

## 1. Energy Efficiency Improvement.

In line with Egypt's vision 2030, the oil and gas sector has adopted an ambitious and comprehensive modernization program focusing on improving energy efficiency in its entire activities, where an energy efficiency department established in Egyptian General Petroleum Corporation ( **EGPC** ) and its affiliated companies in order to improve the efficiency of energy use, achieve optimum added value to our national resources, maximize profit, achieve optimum operation, reduce costs without affecting the quality of the production process.

We achieved positive results, through rationalizing energy consumption in different oil companies.

### Key Achievements:

- A)** Replace the two air preheater in distillation units CDU 1 & 4 at Cairo Oil Refining Company ( **CORC** ) led to save about 10% of total fuel consumption in the furnaces, reach the max design capacity for the CDUs, and decrease the maintenance and operating costs in the furnaces for CDUs ,with total savings of about EGP 14.6 Million annually.
- B)** Heat integration by steam condensate system at Nasr Petroleum Company ( **NPC** ) to raise the boiler feed water temperature from 30oC to 90oC led to save a lot of natural gas used in heating process, with total savings of about EGP 19 Million annually.

2. Our success journey depends on integrated strategy and dynamic work plans, which support the downstream and upstream activities to enhance their operational performance and maximize economic returns across our value chain, by studying different investment opportunities, The most prominent projects include:

- A) Major Ongoing Up-Stream Projects.
- B) Major Ongoing Down-Stream Projects.

# Major Ongoing Petroleum Up-Stream Projects

## Agiba Petroleum Co. (AGIBA)

### Meleiha Gas Plant Project - Phase (II)

- Aim: Construction of new gas treatment plant with capacity of 180 MM scfd & new 24"/275 km gas pipeline to WD Gas Complex
- Total Investment Cost: about \$ 700 MM
- Expected date of operation: Q3 2024

## Gulf of Suez petroleum Co. (GUPCO)

### Rehabilitation Project - Phase (IV)

- Aim: Maintain the current production rates through revamping the oil pipeline network & the infrastructure as per the international safety standards
- Total Investment Cost: \$ 137 MM
- Expected date of operation: Q2 2022

## Gemsa Petroleum Co. (GEMPETCO)

### Zaafarana Field Development Project

- Aim: Replacing the current FSO with new facilities in order to maintaining the continuity of production to guarantee safe operations
- Total Investment Cost: \$ 65 MM
- Expected date of operation: 2023

## Belayim Petroleum Co. (PETROPEI)

### Upgrade / Maintain Sinai Tanks

- Aim: Construction of new oil tanks with total capacity 90,000 cubic meter, demolish & construct oil tank with capacity 7,400 cubic meter & water tank with capacity 6,000 cubic meter
- Total Investment Cost: \$ 46.2 MM
- Expected date of operation: Q2 2022



# Major Ongoing

# Petroleum Down-Stream Projects

## Middle East Oil Refinery (MIDOR) Refinery Expansion Project

- Excess Feed: 60 MbbL/day
- Products: 3 MMT/Year (LPG / Gasoline / Jet Fuel / Diesel / Coke / Sulfur)
- Total Investment Cost: \$ 2300 MM
- Expected date of operation: 2022

## Alexandria Petroleum Co. (APC) CDU & VRU & DHT Projects

- CDU Feed: 5 MMT/year
- DHT Feed: 2.8 MMT/Year
- Total Investment Cost: \$ 610 MM
- Expected date of operation: 2023

**Total Investment Cost about \$ 8.4 Bn.**

## Suez Oil Processing Co. (SOPC) New Asphalt Unit

- Products: 396 MT/Year Asphalt,
- Total Investment Cost: \$ 64 MM
- Expected date of operation: Q4 2021

## Suez Oil Processing Co. (SOPC) Coker Rehabilitation including VRU Unit

- Products: 3 MMT/Year (LPG / Jet Fuel / Diesel / Coke / Naphtha)
- Total Investment Cost: \$ 1400 MM
- Expected date of operation: 2023

## Nasr Petroleum Co. (NPC) New Hydrocracker Project

- HCKU Feed: 1.6 MMT/Year
- Total Investment Cost: \$ 500 MM
- Expected date of operation: 2024

## Nasr Petroleum Co. (NPC) New CDU & VRU Project

- CDU Feed: 1.2 MMT/year Condensate
- Total Investment Cost: \$ 200 MM
- Expected date of operation: Q3 2022

## Assiut Refining Co. (ASORC) CDU & VRU Projects

- CDU Feed: 5 MMT/Year
- Total Investment Cost: \$ 385 MM
- Date of operation: 2023

## Assiut National Oil Processing Co. (ANOPC) New Hydrocracker Complex

- Products: 2.5 MM T/Year (LPG / Naphtha / Diesel / Coke / Sulfur)
- Total Investment Cost: \$ 2900 MM
- Expected date of operation: 2023



# Control for foreign and joint venture co.

In today's competitive global economy, we know that strong relationships with our shareholders are more important than ever to our ability to meet our objective, goals, and our affiliates' needs.

- Cooperate with concerned DEP. To study and evaluate the commercial offers submitted by IOC's in new and current Concession Agreements to enhance and modify it.
- Following up & Auditing the financial records to ensure the application of concession agreements terms and conditions, and discussing any disputes with IOC's; and follow up the fulfillment of the established financial obligations.
- Review the cost recovery statements to ensure the calculation of the expenses installments and the share of IOC's and the EGPC in accordance with the concession agreements and make the necessary adjustments.
- Review and approve the tax return of IOC's.
- Regulate the registration process for the qualified vendors and suppliers as a mandatory step for those who are willing to work with upstream sector by reviewing with concerned technical Dep. their submitted information and documents to assure that the qualified suppliers and vendors will provide best-in-class materials and services.

**Ahmedgma@egpc.com.eg / samehmf@egpc.com.eg**

- Cooperating with EGPC's Technical departments and Exploration Companies during the exploration period to ensure the correctness of the contracting procedures are followed.
- Reviewing and approval the custom declarations in order to be exempted from custom duties, any taxes, levies or fees ( taking into consideration terms and condition for the exemption ) According to the concession Agreement.