Egypt 2021 Bid Round

Diversity of exploration settings - mature, underexplored and frontier basins

Investment opportunities onshore and offshore

Attractive commercial T&C’s

Gas Liquefaction plants can accelerate return on investment through export options

Easy exploitation of resources using existing infrastructure

Worldwide access to EUG data through EUG digital portal
Gulf Of Suez

➢ More than 9 B bbls of oil produced
➢ Prolific Basin, multiple world class source rocks from:
   1. Pre-rift as the Brown Limestone and Thebes
   2. Synrift as Kareem and Rudies
   3. Post Rift as post Miocene
➢ The reservoirs vary from clastics to carbonates such as:
   1. Pre rift reservoirs, such as the Precambrian granitic rocks, Paleozoic–Cretaceous Nubian sandstones, Upper Cretaceous Nezzazat sandstones and the fractured Eocene Thebes limestone
   2. Synrift reservoirs, such the Miocene sandstones, Rudeis, Kareem, Belayim, South Gharib, Zeit, and post-Zeit Formations, and carbonates of the Nukhul.
➢ Reservoirs are characterized by a relatively active water drive and good to excellent porosity and flow capacity
➢ Rift system creates “mega-half-graben” which are internally fragmented into numerous, nested fault blocks (trapping style are tilted fault blocks)
➢ New imaging through high specs new acquisition, OBN, or reprocessing can unlock the GOS remaining potential

Egypt’s Hydrocarbon Production
1.9 MM BBLOE/D

2018, Daily Hydrocarbon Production 1.9 MM bbls/d (EGPC, EGYPs, 2019)
Western Desert

Egypt's Hydrocarbon Production
1.9 MM BBLOE/D

Western Desert 34.18%
Sinai 2.73%
Upper Egypt 0.01%
Mediterranean Sea 37.53%
Eastern Desert 3.61%
Gulf of Suez 8%

2018, Daily Hydrocarbon Production 1.9 MM bbl/d (EGPC, EGUPS, 2019)
More than 1 B bbls of oil & gas produced in Abu El Gharadig (AG) Basin

Prolific basin with 2 main source rocks:
1. The Cenomanian Abu Roash limestone
2. The Middle Jurassic Khataatba shales

Main Plays are:
1. Paleozoic, undifferentiated Paleozoic/Mesozoic (Bahrein and Kharaatba Fm), these three plays are underexplored in most of the offered blocks and have potential to produce substantial volumes
2. Lower Cretaceous (Alam El Bueib & Kharita Fms); these two plays have substantial reservoir thickness in the offered blocks and very high in N/G. Kharita is excellent reservoir in AG Basin
3. Upper Cretaceous (Bahariya, Abu Roash Fms " sandstones & carbonates" These two formations in addition to Kharita are the main producing reservoirs in AG & Beni Suef Basins
4. Lower Tertiary Apollonia carbonate Play is one of the new plays in the Western Desert Basins

Conventional/tight plays as Khataatba or Bahariya thin Sandstones are potential targets

Stratigraphic plays and basin margin pinch-outs

Large field reserves as BED3 153 MMBOE, and BED2 132 MMBOE in Abu El Gharadig Basin (Dolson et al, 2001)
Mediterranean Sea

Egypt’s Hydrocarbon Production
1.9 MM BBLOE/D

- Mediterranean Sea: 37.53%
- Eastern Desert: 3.61%
- Western Desert: 34.18%
- Nile Delta: 13.94%
- Sinai: 2.73%
- Upper Egypt: 0.01%
- Other: 8%

2018, Daily Hydrocarbon Production 1.9 MM bbloe/d (EGPC, EGyps, 2019)
Mediterranean

- Daily production of around 700 M bbls of gas, oil, and condensates from the Mediterranean Sea (EGYS, EGPC, 2019)
- Prolific basin with 2 main source rocks in East Med:
  1. The Oligocene gas prone source rock
  2. Biogenic gas generated in the shallow depth, proven in large discoveries as Aphrodite, Tamar and Zohr.
  3. The Middle Jurassic Khatatba-Lower Cretaceous marine source rock on the Nile Delta fringes, and near shore as in Mango-1 and Marakia-1
- Oligocene-Miocene sandstones turbidites sheets and sand lobes of Miocene age are proven reservoirs in Leviathan 1, Dalit 1 and Tamar 1, and Aphrodite 1 wells
- The Pre-Salt Tortonian to Messinian plays with a potential low-stand facies developed in the distal part of the Nile Delta represented by sub-marine fans and low-stand wedges
- Potential large carbonate plays as Cretaceous to Tertiary mounds, reefs developed on a paleo-highs as Zohr or the Tortonian-early Messinian time (Koronia Member reef, in Cyprus)
- Pliocene channels and the distal deltaic fans are potential targets
EGY-WD-1 (Wadi Sannur) Block Summary

- **Location:**
  Wadi Sannur (EGY-WD-1) is located in the Eastern Desert on the eastern side of the Nile River and is located approximately 126 km to the south of Cairo.

- **Area:** 4287.9 km²

- **Previous Concessionaire:** Apache Oil Egypt, Dana Petroleum, Devon

- **Nearby Fields & Discoveries:** Sohba, Gharibon, Tareef and Beni Suef

- **Geologic Basin:** Beni Suef Basin

- **Available Data:**
  - 1825 km of 2D seismic
  - 1726 km² of 3D seismic
  - Eight wells
**EGY-WD-2 (South Wadi El-Rayan) Block Summary**

- **Location:**
  
  South Wadi El Rayan (EGY-WD-2) is located approximately 130 km to the southwest of Cairo. The Nile River passes through the block on the eastern side.

- **Area:** 4054.9 km²

- **Previous Concessionaire:** Sahara Petroleum Company

- **Nearby Fields & Discoveries:** Beni Suef, Azhar, Azhar East

- **Geologic Basin:** Beni Suef Basin

- **Available Data:**
  
  - 2165 km of 2D seismic
  - Two Water Wells
EGY-WD-3 (Southeast Bahariya) Block Summary

- **Location:**
  Southeast Bahariya (EGY-WD-3) is located in the Western Desert and is located approximately 181 km to the south west of Cairo.

- **Area:** 1771.9 km²

- **Previous Concessionaire:** PGNiG, PAN American UAR Oil Company

- **Nearby Fields & Discoveries:** El-Diyur SW, Baraka NE, El-Diyur 2, Samra/Asala/Hamra/Sara Field

- **Geologic Basin:** Abu Gharadig/Misawag Basin shoulder

- **Available Data:**
  - 1285 km of 2D seismic
  - Two Wells
EGY-WD-4 (South Sitra) Block Summary

• **Location:**

  South Sitra (EGY-WD-4) is located approximately 300 km to the southwest of Cairo and the western part of the block lies partially in the Qattara depression. South Sitra (EGY-WD-4) is located about 15 km to the south of Najm field.

• **Area:** 3849.2 km²

• **Previous Concessionaire:** TPIC, Qarun

• **Nearby Fields & Discoveries:** Najm, AESW West C2, Karima, Bahga, Sennan South, GPT

• **Geologic Basin:** Abu El Ghardig Basin

• **Available Data:**
  - 3075 km of 2D seismic
  - 789 km² of 3D seismic
  - Two Wells
EGY-WD-5 (Southwest Badr El-Din) Block Summary

- **Location:**
  Southwest Badr El Din (EGY-WD-5) is located approximately 350 km to the southwest of Cairo. The block is located about 50 km to the southwest of Bahga field.

- **Area:** 4774.5 km²

- **Previous Concessionaire:** GPC

- **Nearby Fields & Discoveries:** Sitra, Sitra-5, Al Barq, Al Assil, Al Magd, Bahga

- **Geologic Basin:** Abu Gharadig Basin and Sitra Platform

- **Available Data:**
  - 1504 km of 2D seismic
  - One Well
EGY-WD-6 (South Bir El-Nus) Block Summary

- **Location:**
  South Bir El Nus (EGY-WD-6) is located 150 km from the Mediterranean sea and 114 km from the western border of Egypt and 420 km from Cairo.

- **Area:** 3501.9 km²

- **Previous Concessionaire:** Trans-Globe Energy Egypt

- **Nearby Fields & Discoveries:** Siwa R & Meleiha SW B

- **Geologic Basin:** Faghur High & Siwa Basin

- **Available Data:**
  - 3114 km of 2D seismic
  - 592 km² of 3D seismic
  - Four Wells
EGY-WD-7 (East Siwa) Block Summary

- **Location:**
  Block 7 (EGY-WD-7) is located 108 km from the Mediterranean sea and 165 km from the western border of Egypt and 390 km from Cairo.

- **Area:** 514.8 km²

- **Previous Concessionaire:** General Petroleum Company and Khalda

- **Nearby Fields & Discoveries:** Cat-1, Safir & Safir North, Nader, and Unas

- **Geologic Basin:** Matruh-Shushan Basin

- **Available Data:**
  - 2278 km of 2D seismic
  - 121 km² of 3D seismic
  - Three Wells
EGY-WD-8 (East Bir El-Nus) Block Summary

- **Location:**
  East Bir El-Nus (EGY-WD-8) is partly located in Al-Qattara depression and is located 110 km from the Mediterranean sea and 193 km from the western border of Egypt and 338 km from Cairo.

- **Area:** 1612.4 km²

- **Previous Concessionaire:** TransGlobe, Chevron

- **Nearby Fields & Discoveries:** Ghazalat-7, El Mohr, El Faras, Raml North and Ghazalat

- **Geologic Basin:** Abu Gharadig

- **Available Data:**
  - 4141 km of 2D seismic
  - 561 km² of 3D seismic
  - Three Wells
EGY-WD-9 (West El-Moghra) Block Summary

- **Location:**
  West El-Moghra (EGY-WD-9) is situated on the Qattara Ridge and is located 75 km from the Mediterranean sea and 240 km from the western border of Egypt and 320 km from Cairo.

- **Area:** 732.2 km²

- **Previous Concessionaire:** HBSI

- **Nearby Fields & Discoveries:** Ghazalat, Raml North, Safwa and El Faras

- **Geologic Basin:** Abu El Gharadig Basin (Qattara Ridge)

- **Available Data:**
  - 1173 km of 2D seismic
  - One Well
EGY-WD-10 (El-Moghra) Block Summary

• **Location:**

Block 10 (EGY-WD-10) lies on the northern shoulder of the prolific Abu Al-Gharadig Basin and belongs to the so-called "Qattara High" domain and is located 80 km from the Mediterranean sea and 305 km from the western border of Egypt and 188km from Cairo.

**Area:** 1066.9 km²

• **Previous Concessionaire:** HBSI, Shell, VEGAS

• **Nearby Fields & Discoveries:** Safwa, JG, JD, Qattara, Ras Qattara North

• **Geologic Basin:** Qattara High

• **Available Data:**
  - 1155 km of 2D seismic
  - One Well
EGY-WD-11 (West Wadi El-Natrun) Block Summary

• **Location:**
  Block 11 (EGY-WD-11) is located in the northern part of the Western Desert and approximately 46 km to the south of the northern coastline of the Mediterranean Sea.

• **Area:** 1400.6 km²

• **Previous Concessionaire:** BP, Phillips

• **Nearby Fields & Discoveries:** Ghard, Shahd, Rana, Alamein, Razzak, Yidma

• **Geologic Basin:** Alamein Basin

• **Available Data:**
  - 2189 km of 2D seismic
  - 2175 km² of 3D seismic
  - Two Wells
EGY-WD-12 (Wadi El-Natrun) Block Summary

- **Location:**
  Block 12 (EGY-WD-12) is located in the northern part of the Western Desert and approximately 46 km to the south of the northern coastline of the Mediterranean Sea.

- **Area:** 1862.1 km²

- **Previous Concessionaire:** PetroShahd Company, Phoenix Resources company of Natrun, Edison International, Sipetrol

- **Nearby Fields & Discoveries:** Ghard, Shahd, Rana, Alamein, Razzak, Yidma

- **Geologic Basin:** Alamein Basin

- **Available Data:**
  - 3215 km of 2D seismic
  - 1801 km² of 3D seismic
  - Four Wells
Gulf of Suez Blocks

South Lagia (EGY-GOS-13)

West Amer (EGY-GOS-14)

East Badri (EGY-GOS-15)
South Lagia (EGY-GOS-13) Block Summary

- **Location:**
  South Lagia (EGY-GOS-13) Block is located onshore Sinai and offshore in the north eastern flank of the Gulf of Suez. It is situated approximately 40 km to the southeast of the Ras Sudr city. The southern boundary lies adjacent to October & Ras Budran fields and the northern boundary lies approximately 6Km to Lagia field.

- **Area:** 954.7 km²

- **Previous Concessionaire:** Apache, IEOC, Conoco, BP, Deminex, BSPC, CS, & GPC

- **Water Depth:** 0 – 100 m

- **Nearby Fields & Discoveries:** Lagia, Ras Budran, October, NW October, Tanka East, & Asl

- **Geologic Basin:** Lagia Basin, October Basin - Onshore Sinai

- **Available Data:**
  - 4850 km of total 2D seismic
  - 1351 km² of total 3D seismic
  - Twenty wells
West Amer (EGY-GOS-14) Block Summary

- **Location:**
  West Amer (EGY-GOS-14) Block is located onshore eastern desert and offshore Gulf of Suez. It is situated approximately 7 km to the Ras Gharib city. The southern boundary lies Adjacent to Kareem field and the northern boundary Adjacent to Assran field.

- **Area:** 907.9 km²

- **Previous Concessionaire:** Transglobe, Gpc, Dublin, Amoco, Trend, Kaoco, LL&E, Epedeco, & SOE

- **Water Depth:** 0 – 60 m

- **Nearby Fields & Discoveries:** Arta, East Arta, Hoshia, West Hoshia, West Bakr K, Baker, Gharib, Kareem, & North Amer

- **Geologic Basin:** Assran & West Gharib sub-basin - Onshore Eastern Desert - Gulf of Suez

- **Available Data:**
  - 3744 km of total 2D seismic
  - 1336 km² of total 3D seismic
  - Forty Three wells
East Badri (EGY-GOS-15) Block Summary

- **Location:**
  East Badri (EGY-GOS-15) Block is located onshore Sinai and offshore in the south eastern flank of the Gulf of Suez. It is situated nearby El Tor area. The southern boundary lies adjacent to Nessim & GS345 fields and the eastern boundary lies adjacent to Badri & Morgan fields.

- **Area:** 552.4 km²

- **Previous Concessionaire:** Bp, Conoco, Unical

- **Water Depth:** 0 – 70 m

- **Nearby Fields & Discoveries:** Morgan, Nessim, GS 327, GS 345, Younis, & Badri-Badri East.

- **Geologic Basin:** South Belayim Basin & Morgan Basin & El Qaa - Onshore Sinai, Offshore - Gulf of Suez

- **Available Data:**
  - 1751 km of total 2D seismic
  - 674 km² of total 3D seismic
  - Twelve wells
Mediterranean Blocks

- Operating Concessions
- Development Leases
- Bid Round 2021 Offered Blocks
- Restricted Areas
- Protectorate Areas
EGY-MED-E1 Block Summary

- **Location:**
The offered block is located offshore Mediterranean Sea at approximately 230 km and 220 km to the northeast and northwest of Alexandria and Damietta cities respectively.

- **Area:** 4113 km²

- **Water Depth:** 2300 – 2800 m

- **Previous Concessionaire:** Shell & IEOC

- **Nearby Fields & Discoveries:** Ld51-1 Gas well

- **Infrastructure:** West Delta Deep Marine

- **Geologic Basin:** Nile Delta Offshore Basin

- **Available Data:**
  - 3947 km length of 2D seismic
  - Two 3D volumes (462 km²) (11%)
  - One well
EGY-MED-E2 Block Summary

- **Location:**
The offered block is located offshore Mediterranean Sea at approximately 250 km and 185 km to the northeast and northwest of Alexandria and Damietta cities respectively.

- **Area:** 3527 km²

- **Water Depth:** 1400 – 2400 m

- **Previous Concessionaire:** Shell & IEOC

- **Nearby Fields & Discoveries:** Glaucus, Calypso & Onesiphoros West

- **Infrastructure:** West Delta Deep Marine, Temsah & Zohr

- **Geologic Basin:**
  - Nile Delta Offshore Basin, Deep Levant Basin & Eratosthenes Carbonate Platform

- **Available Data:**
  - 2393 km length of 2D seismic
  - Three 3D volumes (3541 km²) (88%)
  - No well
EGY-MED-E3 Block Summary

- **Location:**
  The offered block is located offshore Mediterranean Sea at approximately 145 km directly to the north of Damietta city.

- **Area:** 2963 km²

- **Water Depth:** 1400 – 1800 m

- **Previous Concessionaire:** Shell & IEOC

- **Nearby Fields & Discoveries:** Zohr, Atoll & Salamat

- **Infrastructure:** Zohr & Atoll

- **Geologic Basin:**
  - Nile Delta Offshore Basin, Deep Levant Basin & Eratosthenes Carbonate Platform

- **Available Data:**
  - 1900 km length of 2D seismic
  - Four 3D volumes (3912 km²) (100%)
  - One Well

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EGY-MED-E4 Block Summary

- **Location:**
  The offered block is located offshore Mediterranean Sea at approximately 165 km and 200 km to the northeast and northwest of Port Said and Al Arish cities respectively.

- **Area:** 3552 km²
- **Water Depth:** 1400 – 1800 m
- **Previous Concessionaire:** Shell & Edison
- **Nearby Fields & Discoveries:** Zohr, Aphrodite & Leviathan

- **Infrastructure:** Zohr & Atoll
- **Geologic Basin:**
  - Nile Delta Offshore Basin, Deep Levant Basin
- **Available Data:**
  - 1560 km length of 2D seismic
  - Two 3D volumes (3814 km²) (100%)
  - No Well
EGY-MED-E5 Block Summary

• **Location:**
The offered block is located offshore Mediterranean Sea at approximately 130 km to the northeast and northwest of Port Said and Al Arish cities respectively.

• **Area:** 3203 km²

• **Water Depth:** 500 – 1200 m

• **Previous Concessionaire:** BG, IEOC & Edison

• **Nearby Fields & Discoveries:** Shimshon, Ameeq-1 & N. Hapy-2

• **Infrastructure:** Temsah

• **Geologic Basin:**
  - Nile Delta Offshore Basin, Deep Levant Basin

• **Available Data:**
  - 2025 km length of 2D seismic
  - Four 3D volumes (3827 km²) (98%)
  - Two Gas Wells
EGY-MED-E6 Block Summary

- **Location:**
  The offered block is located offshore Mediterranean Sea directly to the north of Al Arish city where the southern boundary of the block is represented by the Mediterranean shore line. Two exclude areas (yellow polygons) within the block boundary related to North El Arish offshore concession of Dana Gas.

- **Area:** 2983 km²
- **Water Depth:** 0 – 450 m
- **Previous Concessionaire:** BG, IEOC & Tharwa
- **Nearby Fields & Discoveries:** Gaza Marine, RAAD & Mango-1
- **Infrastructure:** Temsah
- **Geologic Basin:**
  - Nile Delta Offshore Basin & Pleshet Sub-Basin
- **Available Data:**
  - 2758 km length of 2D seismic
  - One 3D volume (1055 km²) (35%)
  - Nine Wells
EGY-MED-W11 Block Summary

- **Location:**
  The offered block is located offshore Mediterranean Sea at approximately 210 km and 213 km to the Northeast and Northwest of El Salum and Matruh cities respectively.

- **Area:** 5882 km²

- **Water Depth:** 2500 – 3000 m

- **Geologic Basin:** Frontier Basin

- **Available Data:**
  - 1034 km length of 2D seismic
  - No well
EGY-MED-W17 Block Summary

• **Location:**
The offered block is located offshore Mediterranean Sea at approximately 220 km North-Northwest of Matruh city.

• **Area:** 4619 km²

• **Water Depth:** 2500 – 3000 m

• **Geologic Basin:** Frontier Basin

• **Available Data:**
  - 738 km length of 2D seismic
  - No well
EGY-MED-W18 Block Summary

• **Location:**
The offered block is located offshore Mediterranean Sea at approximately 220 km and 250 km to the North-Northeast and Northwest of Matruh and El Dabaa cities respectively.

• **Area:** 4222 km²

• **Water Depth:** 2500 – 3000 m

• **Geologic Basin:** Frontier Basin

• **Available Data:**
  - 1465 km length of 2D seismic
  - No well
For more information, please contact: info@eug.petroleum.gov.eg

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