



PETROLEUM COMMISSION, GHANA
Regulating, Managing & Coordinating Upstream Petroleum Activities



GHANA PROSPECTS: REGULATORY REVIEW AND EXPLORATION OPPORTUNITIES

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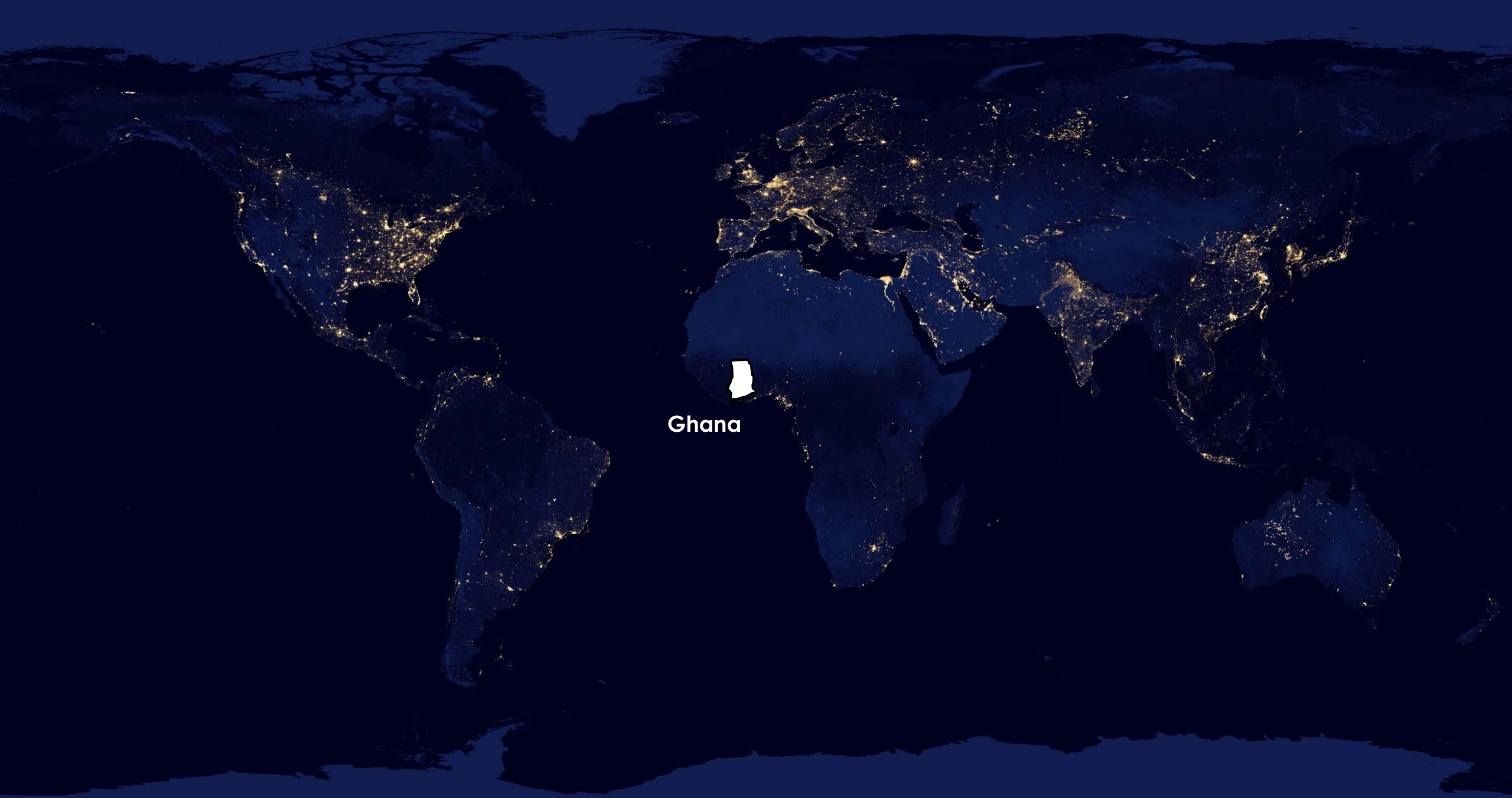
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Outline



- ❖ Country Profile
- ❖ Overview of Ghana's Upstream Sector
- ❖ Legal and Regulatory Development
- ❖ Regulatory Review
- ❖ Exploration Opportunities
- ❖ Conclusion



Ghana

Country Profile



- Total land area : 238,533 sq. km
- Capital : Accra
- Official language : English
- Currency : Cedi
- Population : 27 million (2015)
- Government : Multi-party democracy
- GDP per capita : US\$1,641 (2017)
- GDP per capita (PPP) : US\$6,452 (2018)
- Mainstay of Economy : Agric/Service/Mining
and Petroleum



Milestone of Ghana's E&P Sector Development



2008-2020- Development of Fields

- 28 discoveries made post Jubilee (3 Major discoveries in 2019)
- Three Fields (Jubilee, TEN and OCTP) in production
- Aker's Pecan Field under development
- Continuous Exploration works underway

1997-2007 – Offshore Exploration Success

- Dana Petroleum discovered West Tano with WT-1X, WT-2X
- 2007: Jubilee Field discovered, commercial success

1980-1989 – Intensified Offshore Exploration

- PetroCanada acquired extensive Tano 2D and drilled 2 offshore and 11 onshore wells
- 1983: GNPC established
- GNPC acquired 3D over South Tano
- 1989: ARCO discovered gas with CT 1-1 and heavy oil with NWT-1

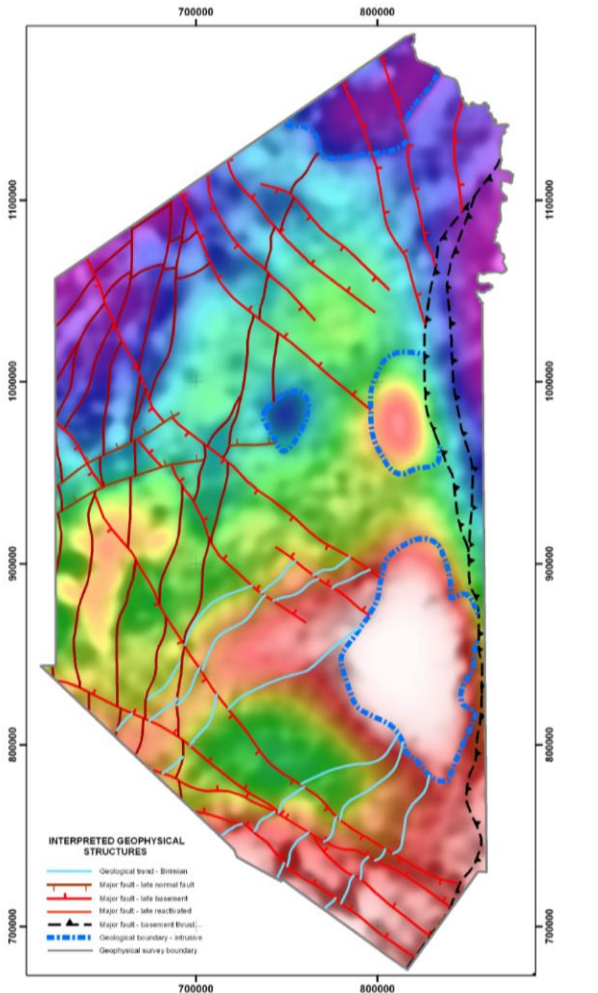
1967-1978 – Shift to Offshore Exploration

- Data acquisition commenced in offshore Saltpond and Tano Basins
- 1970: First offshore well, VT 1-1 drilled by Volta Petroleum. North Tano and Saltpond Fields also discovered
- 1978: Phillips Petroleum discovered South Tano with IS-1X
- 1978: Commencement of production from Saltpond Field

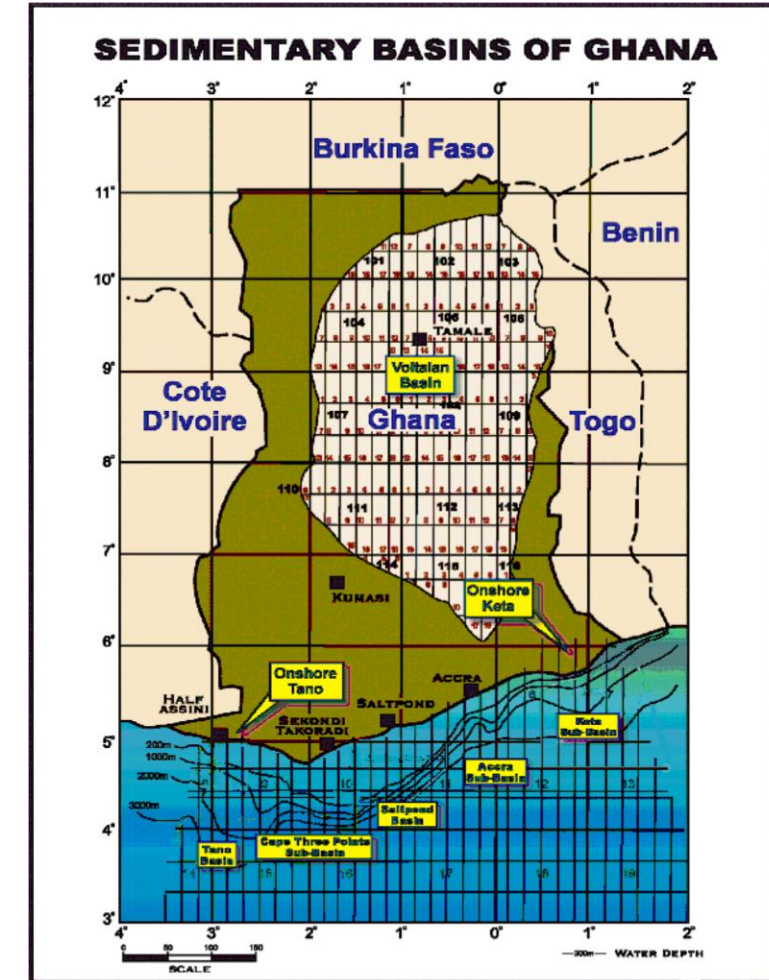
1896- 1966 – Onset of Petroleum Exploration

- Onshore exploration began 1896 in Tano Basin
- Drilling targets were locations with oil seeps
- About 21 shallow onshore wells drilled
- First documented discovery made

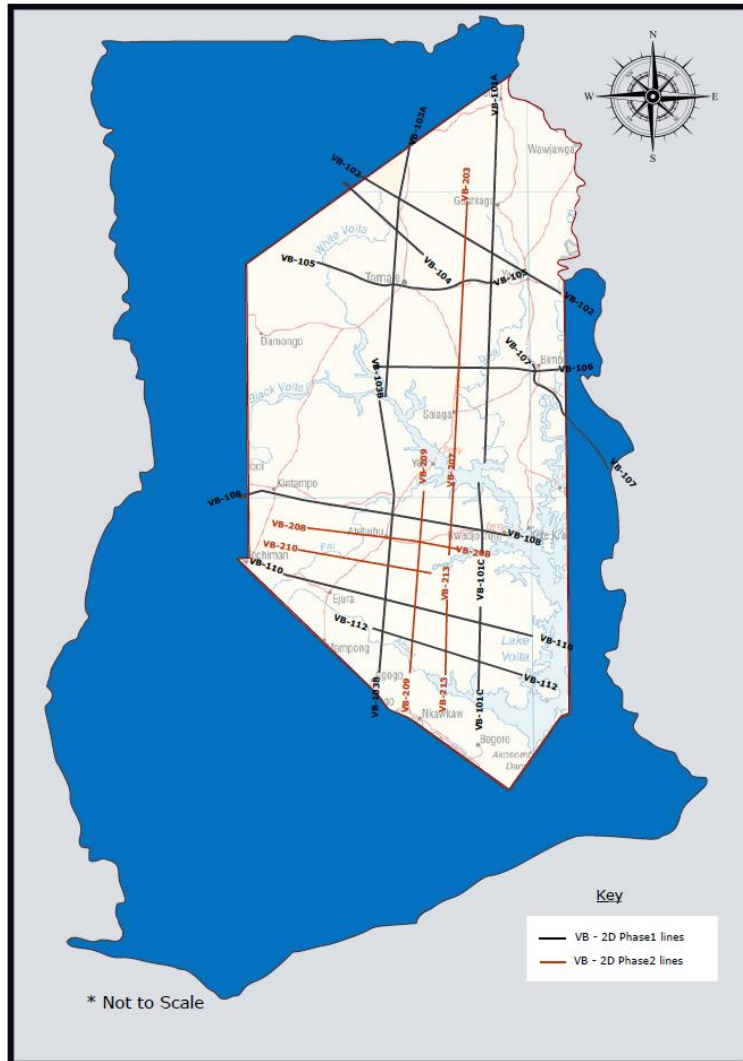
Ghana's Sedimentary Basins



- Ghana has 4 sedimentary basins (Three offshore and one onshore).
- The offshore basins cover an area of ~ 63,000 sq. km at 3,000m bathymetry and estimated proven reserves of 1035 mmbo and 1.72 Tcf gas
- The play types are structural (Devonian) and stratigraphic/ combination (Cretaceous)
- The onshore basin covers ~103,600 sq. km and is currently being explored to establish its prospectivity

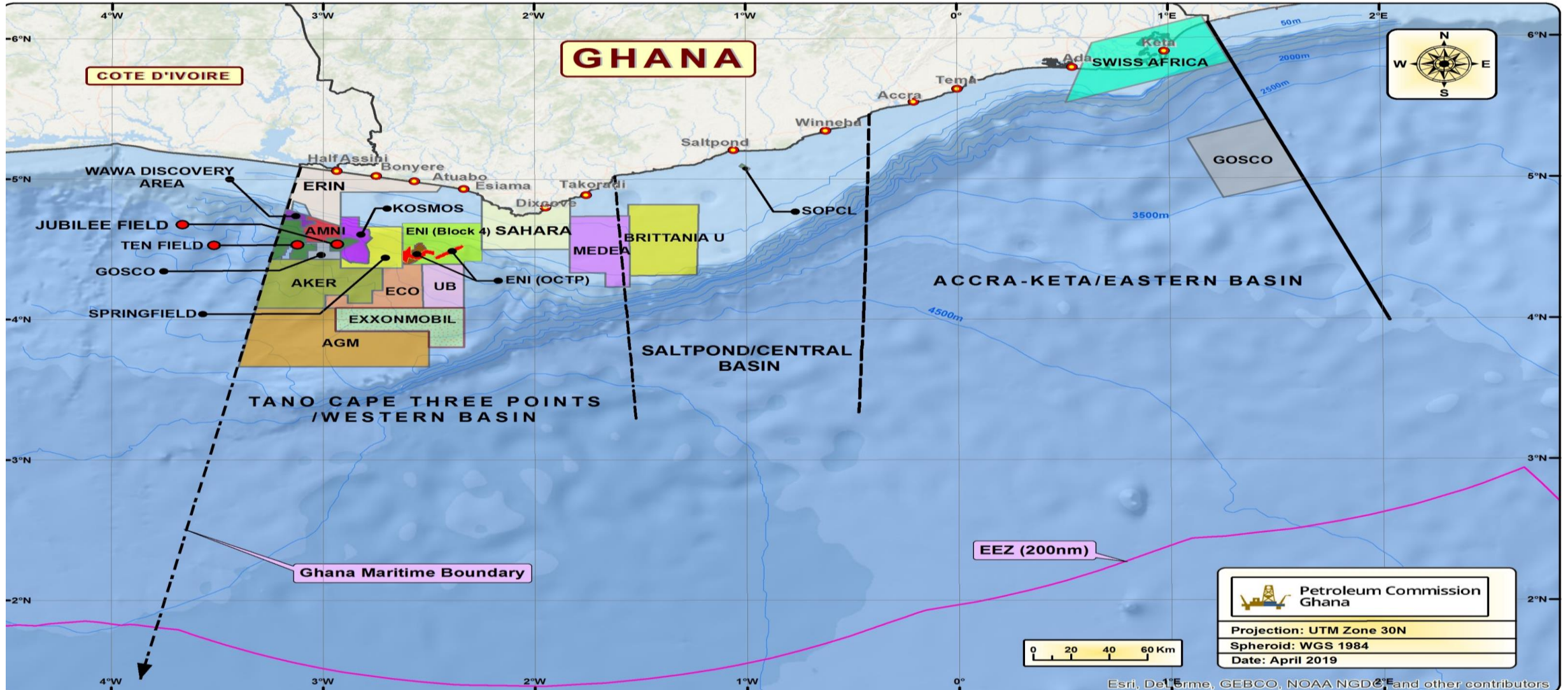


Voltaian Basin Project



- The Voltaian Basin is largely unexplored and has been tested with one exploration well
- GNPC is spearheading exploration works in the basin
- About 1871km of 2D Seismic Data has been acquired, processed and interpreted
- Preliminary results have identified structures of interest
- Phase 2 entails the infilling of Phase 1 project with 667km of 2D Seismic Data and is currently underway
- Two wells will be drilled within the basin to establish its stratigraphy

Ghana's Offshore Activity Map



Current offshore landscape



Jubilee Field



TEN Project

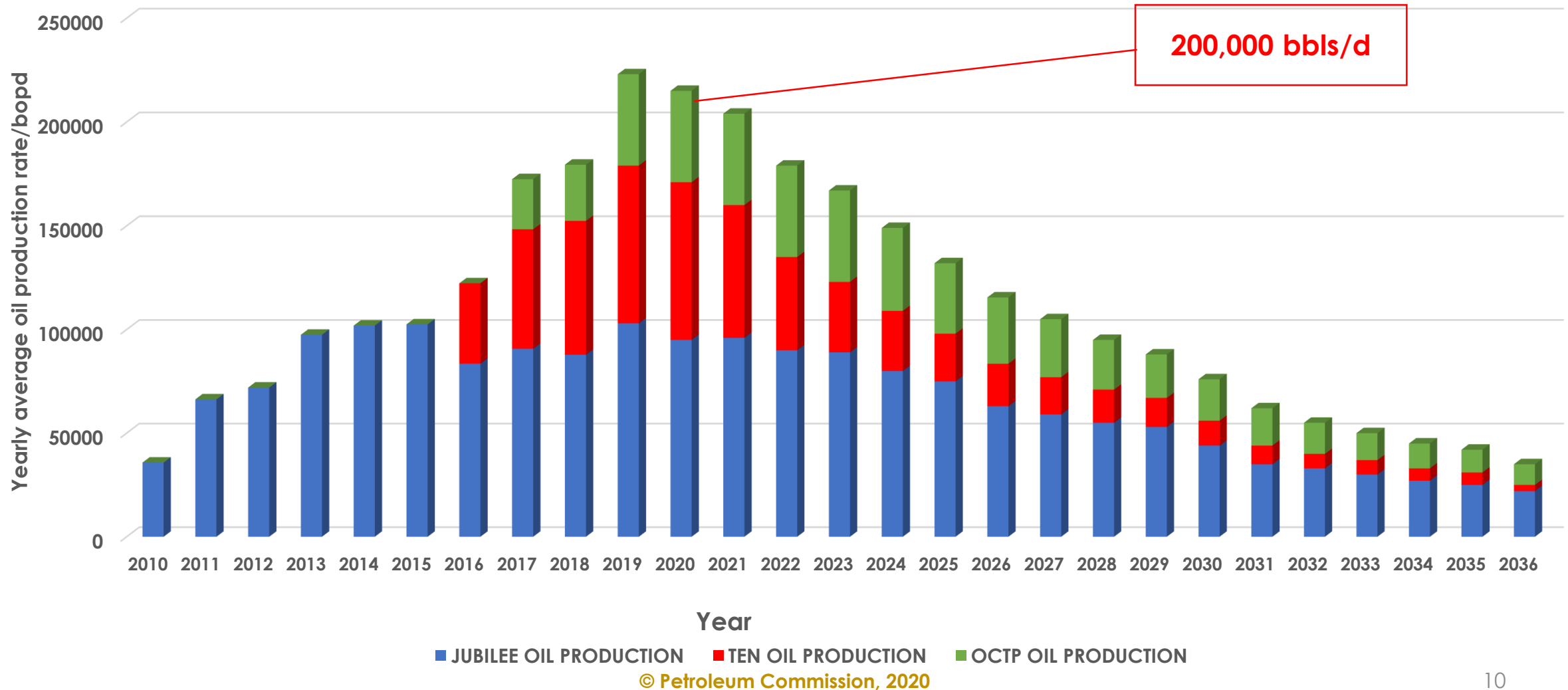


OCTP Project

National Oil Production Profile



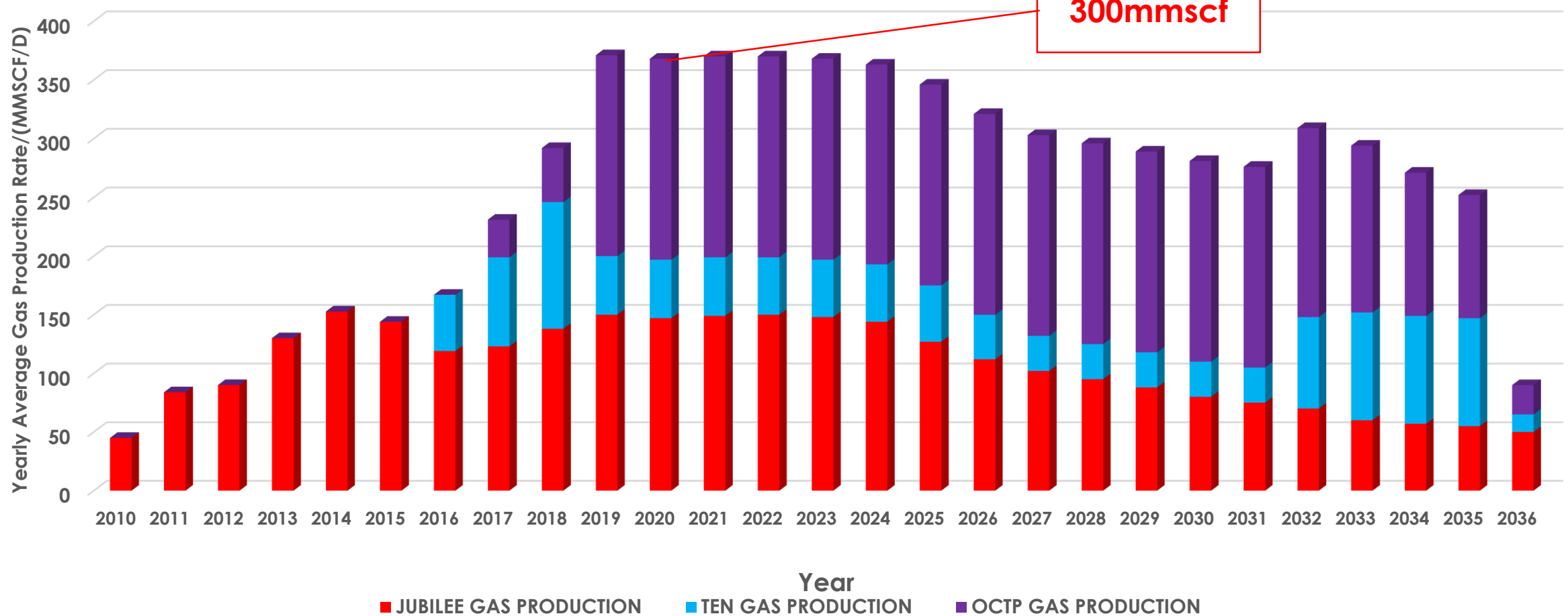
OIL PRODUCTION PROFILE



National Gas Production Profile



GAS PRODUCTION PROFILE



Regulatory Development – Laws



To operationalise the various laws to ensure efficient conduct of upstream petroleum operations and all allied activities for the benefit of Ghanaians, Government has adopted a systematic approach in the development of upstream regulations and guidelines

Laws & Regulations

- The 1992 Constitution of the Republic of Ghana
- Petroleum Exploration and Production Law (PNDC L 84 (Repealed))
- Ghana National Petroleum Corporation Law, (1983) PNDCL 64
- Income Tax Act (2015), Act 896
- Petroleum Commission Act, (2011) Act 821
- Petroleum Revenue Management (Amendment) Act, (2015) Act 893
- Petroleum (Exploration and Production) Act, 2016 Act 919



Laws & Regulations

- Petroleum (Local Content and Local Participation) Regulations, 2013 (L.I. 2204)
- Petroleum Commission (Fees and Charges) Regulations, 2015 (L.I. 2221)
- Petroleum (Exploration and Production)(Measurement) Regulations, 2016 (L.I. 2246)
- Petroleum (Exploration and Production)(Health Safety and Environment Regulations) Regulations, 2017 (L.I. 2258)
- Petroleum (Exploration and Production)(Data Management) Regulations, 2017 (L.I. 2257)
- Petroleum (Exploration and Production)(General) Regulations, 2018 (L.I. 2359)

Regulatory Development – Guidelines/Protocols



- Insurance Protocol
- Guidelines on submission of contracts
- Guidelines on submission of Procurement Plans
- Guidelines on submission of Local Content Plans
- Bid Evaluation Guidelines
- Guidelines on Employment & Training
- Guidelines on Succession Planning

Regulatory Review

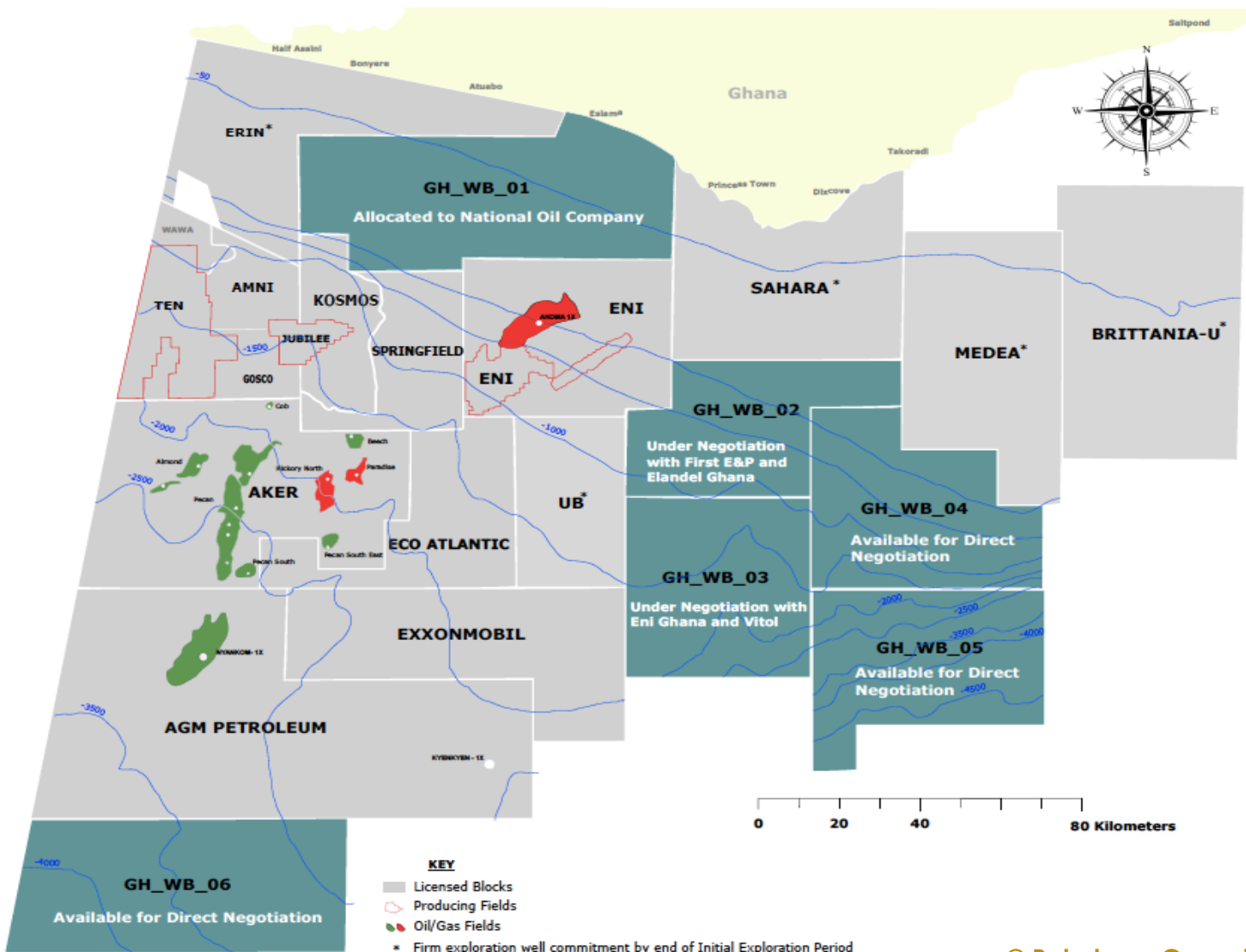


In the quest to provide for and ensure safe, secure, sustainable and efficient upstream petroleum activities in order to achieve optimal long-term petroleum resource exploitation, the Government of Ghana has made some reviews to the **Petroleum (Exploration and Production) (General) Regulations L.1. 2359.**

The reviews will:

- Allow IOCs/contractors to undertake exploration activities within a development and production area in order to explore for stranded resources
- Restore economic balance of both the IOCs/contractors and the State
- Accelerate the rate of discoveries (resultant effect of increased revenue for the State)
- Increase exploration activities in Ghana, chances of production and fiscal take of the State

Exploration Opportunities in Ghana's Upstream Sector



- **GNPC Allocation:**
 - Block GH_WB_01
 - Strategic investor needed to partner GNPC to develop.
- **Direct Negotiation:**
 - Blocks 4,5 and 6
 - Available through Direct Negotiation with MoEn.
- **Farm – in Opportunities**

Summary



- Oil and gas production in Ghana is currently over 200,000 bbls/d and 300mmscf from three producing fields.
- Management of Petroleum Resources is in accordance with the Principles of Good Governance and Transparency.
- Robust Regulatory framework has been developed to provide an enabling environment (fairness, transparency and predictability) for increased private participation and investment in the upstream petroleum space in Ghana.
- Conducive socio-political environment provides limitless upstream opportunities in a dynamic and steadily advancing economy.
- Exploration opportunities for open acreages, farm-in and the provision of services.
- Ghana continues to be the most attractive destination for upstream investment in West Africa.



For further information

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THANK YOU