



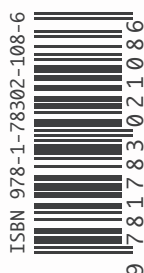
# THE OIL & GAS YEAR

The Who's Who of the Global Energy Industry

ARTICLES | INTERVIEWS | VIEWPOINTS | MARKET ANALYSIS | RESOURCES | PROJECTS | MAPS | INVESTOR SPOTLIGHTS



**EQUATORIAL GUINEA 2015**



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## **Equatorial Guinea's energy outlook**

**Gabriel MBAGA OBIANG LIMA**  
Minister of Mines, Industry and Energy

## **Progress in a volatile market**

**Mercedes EWORO MILAM**  
Director-General of Hydrocarbons

## **Gas potential**

**Juan Antonio NDONG ONDO**  
Director-General  
**SONAGAS**

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Industry and Energy



Overseeing Equatorial Guinea's oil and gas industry, the Ministry of Mines Industry and Energy is responsible for almost 90 percent of the country's revenues. While still focusing in the promising offshore potential of the country, with new offshore blocks up for direct negotiation, the MMIE has spearheaded the PEGI 2020 industrialisation plan and the country's Horizon 2020 initiative, developing major projects like the Bioko Oil Terminal, The Petrochemicals Revolution of Equatorial Guinea, the Mбини Industrial City and the Petroleum Industrial City of Luba.



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## Diplomacy &amp; Politics

Equatorial Guinea's economy is expected to shrink for a third consecutive year in 2015, as the resource-dependent country faces declining production, compounded by the fall in oil prices. The government's efforts to strengthen foreign trade ties, especially with China, and improve its image abroad, must be met with an equal push to increase the flow of goods and services with its regional neighbours.



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## Exploration &amp; Production

While recent offshore developments, including the scheduled introduction of Africa's first floating LNG platform at block R, promise to offset Equatorial Guinea's seven years of production decline, fundamental doubts linger. Low oil prices were blamed for the slim interest attracted by the country's latest licensing round and the pullback on exploration plans by upstream companies, however concerns about the business, social and political environment may also have played a role.

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## Gas & Downstream

The Petrochemicals Revolution of Equatorial Guinea, or REPEGE, will see the first domestic production of fertilisers, which will both add value to the country's reserves and help develop the agriculture sector. The addition of a second train at Punta Europa LNG plant, the construction of Bioko Oil Terminal and power projects are extending Equatorial Guinea's importance down the oil and gas value chain.

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## Banking, Finance & Legal

With deep cuts to revenue precipitated by falling production and low oil prices, the government of Equatorial Guinea can no longer be relied upon to play its historical role as the main financier and driver of the country's domestic industry. The government is turning attention to local private banks and foreign investors for alternative lines of credit, while newly tightened local content laws aim to spur growth among local and regional companies.

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## The Year's Focus: Downstream Diversification

The construction of a storage terminal on Bioko Island is the latest push by the government to diversify Equatorial Guinea's crude export-based economy, with the potential to turn the nation into a regional logistics centre. As oil prices continue to wallow, plans to develop the agriculture, fishing and energy industries under Horizon 2020 cannot come soon enough.

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## Oilfield Services

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## Engineering & Construction

Equatorial Guinea is adjusting to the end of an infrastructure boom, which started in 2009 and came to end in 2014 as the country's economy faltered. However, several large ongoing projects, including a petrochemicals complex at Riaba, an industrial city at Mbiní and the Bata regasification project, will continue to provide work for contractors and could fill the gap until oil prices rise again.



**120**

## Marine & Logistics

With government encouragement, oil- and gas-related companies in Equatorial Guinea are moving their operational centres from Malabo to Luba, which is the site of upgrade and expansion projects. The move puts the country on track to become a regional marine and logistics centre, as rival ports face mounting problems of traffic and piracy. However, Equatorial Guinea will first need to resolve uncertainties and increase efficiencies to its Customs system.

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photo courtesy of Ampco

## 7 **Equatorial Guinea's energy outlook**

**Gabriel MBAGA OBIANG LIMA**  
Minister of Mines, Industry and Energy

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## Equatorial Guinea's energy outlook

Equatorial Guinea's offshore hydrocarbons industry has been developing continually, with five new blocks expected to be awarded by the end of 2015. Minister of Mines, Industry and Energy Gabriel Mbaga Obiang Lima speaks to TOGY about what has been done and what will be done to ensure the reinvention of the country in the offshore and downstream sectors.



**Gabriel MBAGA  
OBIANG LIMA**  
*Minister of Mines,  
Industry and Energy*

**What does Equatorial Guinea hope to achieve through the construction of projects such as the Integrated Petrochemical Complex in Riaba and the Bioko Oil Terminal (BOT)?**

The Ministry of Mines, Industry and Energy (MMIE) has a long-term vision of transforming Equatorial Guinea into an energy centre. Both the BOT and the Integrated Petrochemical Complex in Riaba serve this vision.

Equatorial Guinea has a keen interest in developing its oil and gas industry, establishing itself firmly as a power in West and Central Africa and gaining access to global oil trading flows by investing in assets.

“Bilateral agreements between West African countries and Equatorial Guinea can address inefficiencies in key supply routes.”

The infrastructure in West Africa is not developed enough to address the growing demand for oil and petrochemicals. Through these two new investments, we will be well positioned to accommodate the required logistics efficiently.

**How will these investments serve the supply and trade sectors in not only Equatorial Guinea, but also West Africa as a whole?**

These assets will serve global trade flows and regional demand centres. They will be only a few hours in sailing time away from key demand centres. Customers can use shipment services from Equatorial Guinea to serve those markets.

Bilateral agreements between West African countries and Equatorial Guinea can address inefficiencies in key supply routes while promoting the security of supply.

These investments in infrastructure will have a direct positive impact on national economy and employment, including the creation

of jobs and demand for our own construction services. During construction and operation, we will attract technology and expertise from abroad that will be passed on to our own people, as well as recruit and train a large number of our nationals.

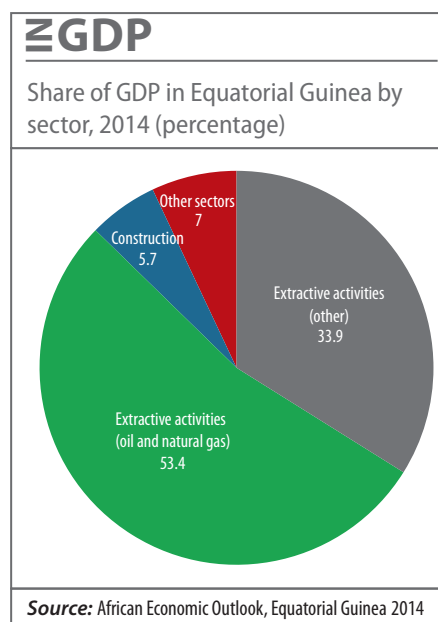
**How can the MMIE ensure sufficient funding for downstream projects?**

The MMIE has to present upcoming downstream projects to international capital communities, to the energy partners that hold a vision of Equatorial Guinea as a regional energy centre and to the banking sector, to attract funds.

In the existing economic environment, where crude oil prices have decreased by almost 50 percent since summer 2014, funds will go to projects with clear location, supply and logistics advantages. We believe that the BOT and the Integrated Petrochemical Complex in Riaba have these characteristics.

**What role will natural gas play in the Equatoguinean development plan?**

The MMIE plans to monetise and increase the added value of domestic natural gas projects.



### IN FIGURES

Number of blocks to be awarded by the end of 2015

**5**

Integrated Petrochemical Complex expected urea production

**1.3 million  
tonnes per year**



New technology and systems are bringing improvements to Equatorial Guinea's oil and gas industry

The government is creating and integrating petrochemicals complexes to diversify the national economy and eradicate its dependence on oil. Equatorial Guinea will co-operate with all the oil-producing countries in the Gulf of Guinea to develop gasfields. The creation of a regional gas entity will boost co-operation.

“We are aiming to create mixed companies between the government and economic and technological private partners.”

**The open-bid blocks of the 2014 licensing round have not been tendered. How can the MMIE increase their attractiveness, particularly for the deepwater blocks?**

The terms used in the negotiation of shallow-water blocks should not be the same as for deepwater blocks. The bonus paid by exploration and production companies should be reduced from \$1 million-2 million to \$500,000, which would help accelerate their work programmes.

The cost of mandated corporate social responsibility, as well as the contributions to the National Technological Institute of Hydrocarbons of Equatorial Guinea, should be cut by 50 percent, while the payment schedules for royalties and the division of hydrocarbons should be flexible for deepwater blocks.

These measures are necessary to attract new actors and investors that will bring economic benefits for the development of the country.

**Why has Equatorial Guinea's government promoted the migration of oil companies from the K5 Oil Centre to the Luba Freeport?**

Hydrocarbons companies that left K5 by government mandate to move to the Luba Freeport will benefit from the free port status in place at Luba. In the same regard, they will support the

government in the development of the local population of South Bioko by providing oil and gas industrial infrastructure in the city of Luba.

**How can local content in the domestic oil and gas industry be strengthened?**

In September 2014, a new local content regulation that applies to Chapter 20 of the Hydrocarbons Law of Equatorial Guinea was adopted. The first step in ensuring the successful application of this law is to inform domestic and international companies about the articles and clauses that are in place, so that later, the ministry can demand abidance.

The new regulation does not differentiate between companies that are 100-percent Equatoguinean from those that have a share of 35 percent, the minimum required.

The ultimate objective is for domestic companies to win contracts in the hydrocarbons industry, generate jobs for locals, with the corresponding payment of taxes to the Treasury. We live in a globalised world in which any input from international businesses in terms of know-how is useful for updating productive or management processes.

**What is the logic behind the establishment of industrial complexes in Equatorial Guinea, such as the Mbini Industrial City?**

The plans for the industrialisation of the country are part of its social and economic development. Equatorial Guinea's private sector is one of the engines of the economy.

Supported by the private sector, we are aiming to create mixed companies between the government and economic and technological private partners, to encourage the establishment of small and medium-sized enterprises, to promote the exports of locally manufactured goods and to reinforce important areas of the domestic industrial sector.

With these objectives in mind, the MMIE arrived at a decision to establish the Industrial City and Special Economic Zone of Mbini. ■

## COMPARISON

Total proved oil reserves and reserves-to-production ratios in selected Central and West African countries

|                   | Oil reserves<br>(billion barrels) | Reserves to production<br>ratio (years) |
|-------------------|-----------------------------------|-----------------------------------------|
| Angola            | 12.7                              | 20.3                                    |
| Chad              | 1.5                               | 52.4                                    |
| Republic of Congo | 1.6                               | 15.6                                    |
| Equatorial Guinea | 1.1                               | 10.7                                    |
| Gabon             | 2                                 | 23.2                                    |
| Nigeria           | 37.1                              | 43                                      |

Source: BP Statistical Review 2015

## IN FIGURES

Minimum share of a company created in Equatorial Guinea that must be locally owned

**35 percent**

**MAN OF THE YEAR****Agustín MBA OKOMO**

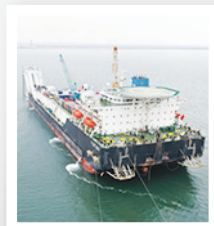
Appointed as Secretary General of the Ministry of Mines, Industry and Energy (MMIE) in June 2015, former Director of National Content **Agustín Mba Okomo** led efforts in the approval of the Regulation of National Content, Ministerial Order 1/2014, passed on September 26, 2014. Strengthening Chapter 20 of the 2006 Hydrocarbons Law, the new regulation moves away from the former “gentlemen’s agreement,” which used to determine local content obligations for international companies. The new order aims to improve and clarify local content responsibilities of international companies, as well as the MMIE in the areas of training, employment, corporate social responsibility and enforcement.

**EXPLORATION AND PRODUCTION COMPANY OF THE YEAR**

A veteran in the Equatoguinean oil and gas industry, **Mobil Equatorial Guinea (MEGI)** saw its billionth barrel of oil pumped from the Zafiro field in May 2015. Production at the asset began in 1996, peaking in 2004 at rates of more than 300,000 barrels of oil per day. MEGI’s operations at Zafiro have provided the Equatoguinean state with more than \$57.5 billion in revenues. Solidifying its presence in the country, MEGI was the first company to enter a production-sharing contract in the 2014 Licensing Round, block EG-06, signed in January 2015 and ratified in April 2015.

**UPSTREAM PROJECT OF THE YEAR**

UK upstream operator Ophir Energy achieved two major milestones in ensuring the development of the **Fortuna floating LNG project** for block R’s development. In November 2014, it signed natural gas fiscal terms with the MMIE and national oil company GEPetrol that were designed to ensure viability of the project and establish a basis for signing the natural gas purchase agreements. In May 2015, Ophir Energy appointed the UK’s Golar LNG as the midstream partner for the Fortuna floating LNG project, accelerating the date of first gas to mid-2019.

**DOWNSTREAM PROJECT OF THE YEAR**

On December 20, 2014, Nigerian oil trading company Taleveras Group signed an agreement with the MMIE for the construction of the **Bioko Oil Terminal**. Set to become Africa’s largest oil storage terminal, the Bioko Oil Terminal will be built at Punta Europa in the north of Bioko Island under a two-phase development scheme. The first phase will put the terminal’s capacity for refined products such as petrol, naphtha, diesel, Jet A-1 and fuel oil at 680,000 cubic metres. The second phase will raise the terminal’s total capacity to 1.2 mcm and cover the construction of crude storage facilities.

**POWER GENERATION PROJECT OF THE YEAR**

In January 2015, under an MMIE initiative, Spanish engineering company Setolazar began the construction of the **Bata Thermal Station** gasification project, which aims to substitute imported fuel oil for domestically produced LNG as the station’s primary feedstock. Construction will entail an LNG truck loading facility in Malabo and a gasification plant in Bata. The plant is to be located next to the thermal station, which is being converted by Finnish company Wärtsilä. The project will cost €24 million and is expected to be operational by December 2015.

**CORPORATE SOCIAL RESPONSIBILITY PROJECT OF THE YEAR**

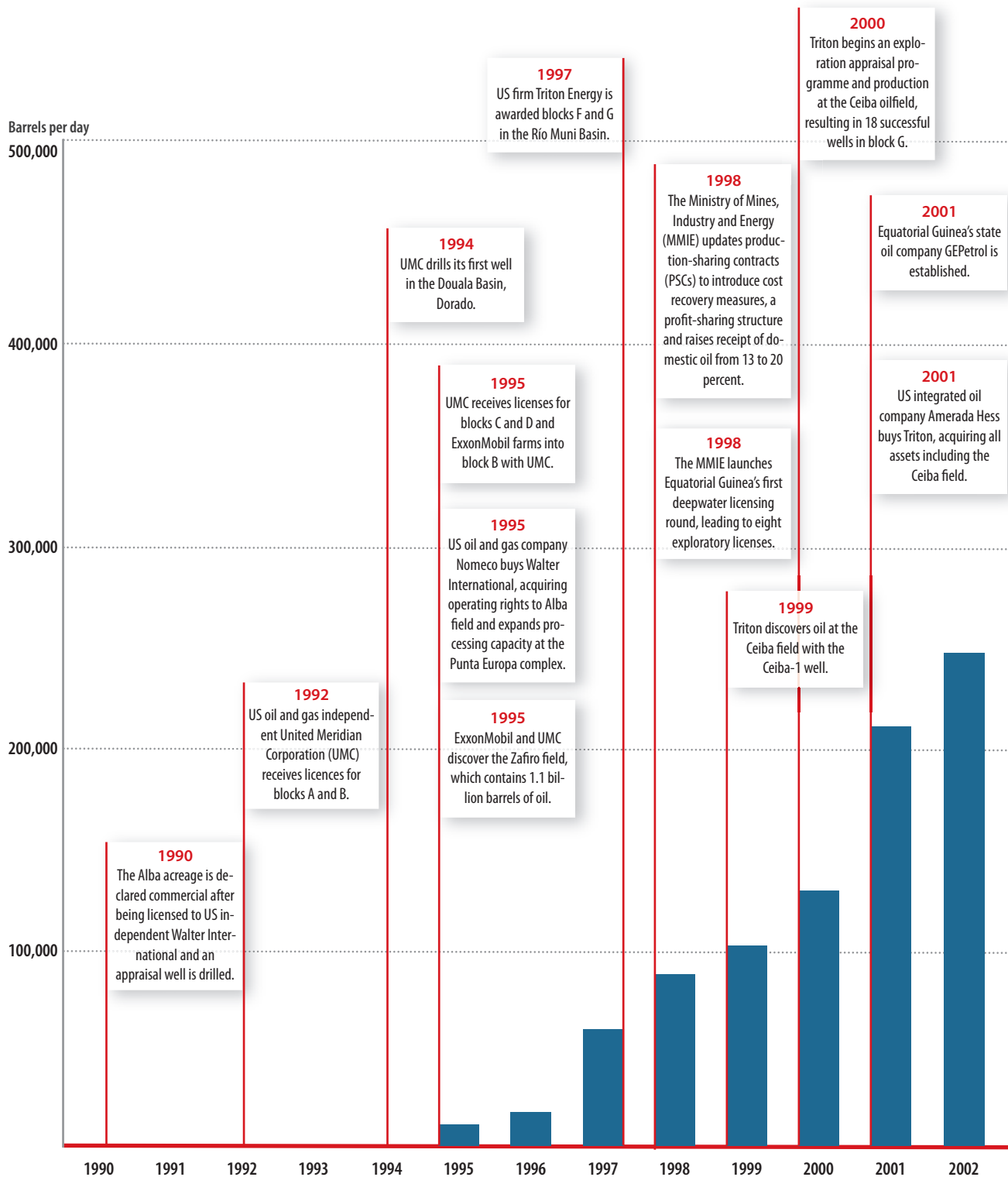
In March 2015, Equatorial Guinea’s first three volunteers successfully received anti-malaria vaccine PfSPZ at the La Paz Medical Centre in Sipopo. The ongoing domestic effort to combat the disease has been framed under the **Bioko Island Malaria Control Project**, which had its 10th anniversary in 2014 under collaboration between the government of Equatorial Guinea, national energy companies Sonagas and GEPetrol, US operators Marathon Oil, Noble Energy and the Atlantic Methanol Production Company and local LNG company Equatorial Guinea LNG.

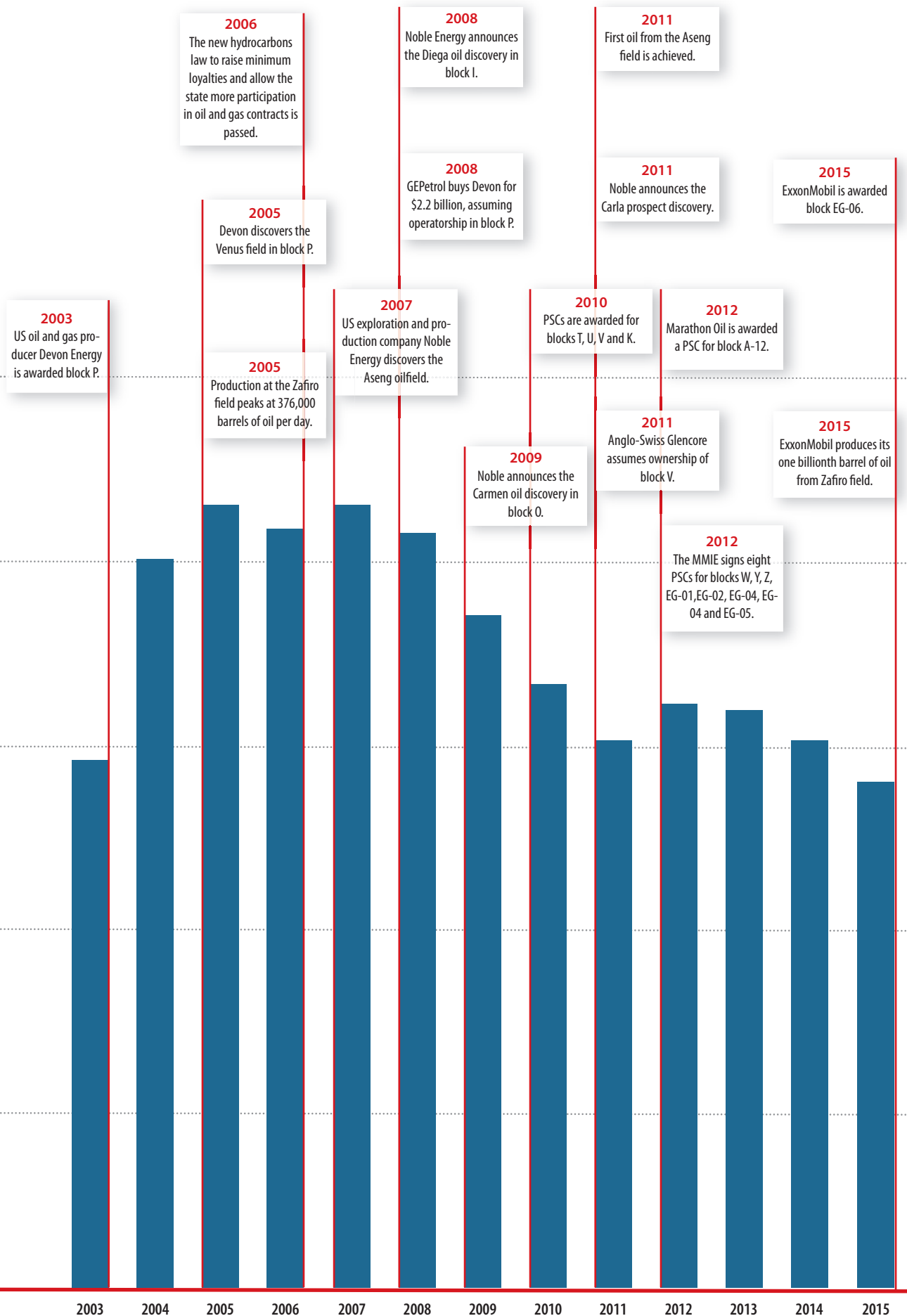
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THE YEAR IN REVIEW

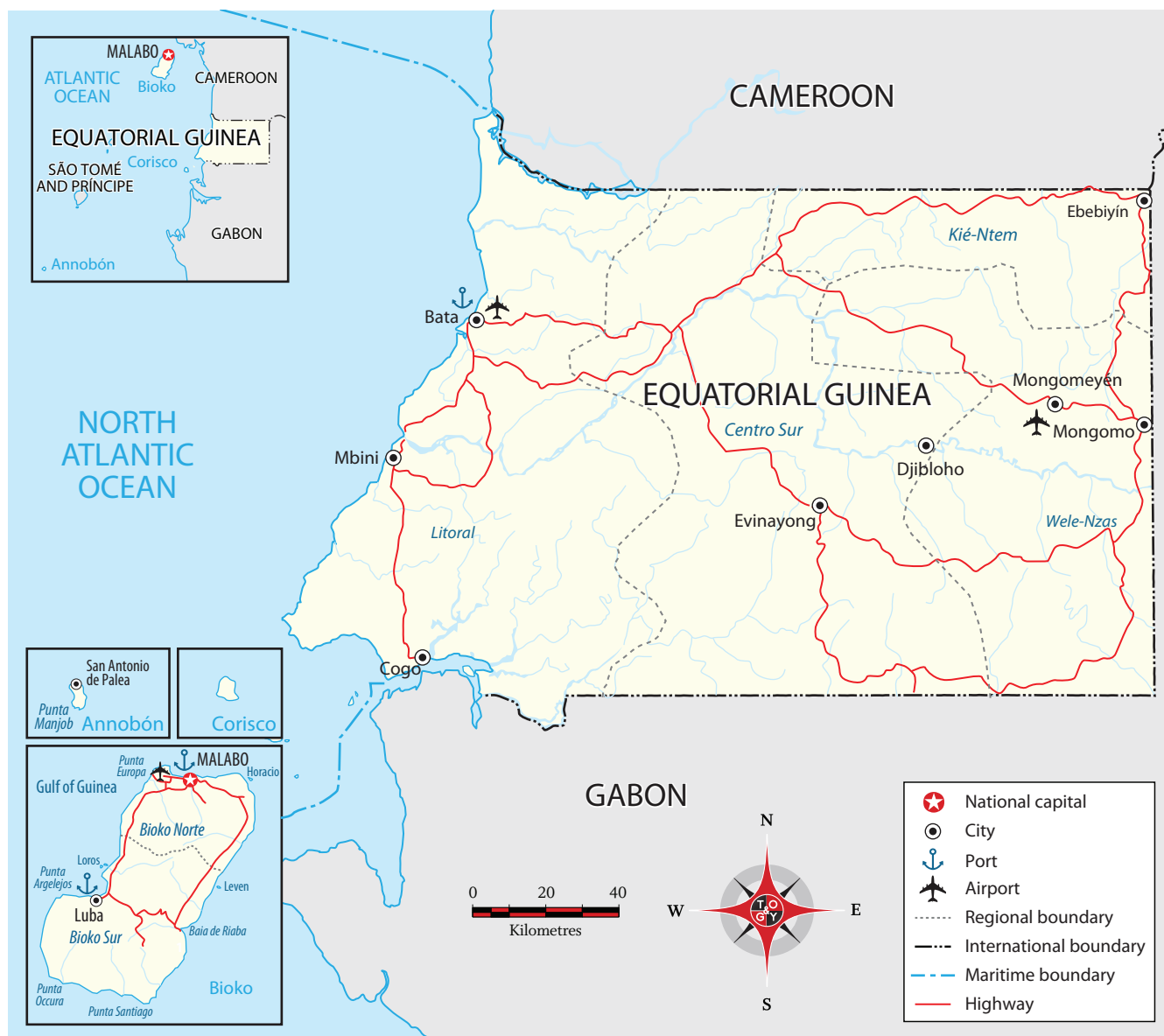
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TIMELINE





Source: Oil Council Africa Assembly



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## POLITICS

- **Official name:** Republic of Equatorial Guinea
- **Political system:** Multi-party republic with strong executive branch
- **Head of state:** President Teodoro Obiang Nguema Mbasogo
- **Capital city:** Malabo, Bioko Island
- **Regional groupings:** Central African Economic and Monetary Community, Economic Community of Central African States, African Union, African Petroleum Producers' Association, African-Caribbean-Pacific Group of States, Gas Exporting Countries Forum

## DEMOGRAPHY

- **Population:** 740,743 (July 2015 estimate)
- **Annual population growth rate:** 2.51 percent (2015 estimate)
- **Major languages:** Spanish, French, Portuguese

## ECONOMY

- **Currency:** Central African Franc (\$1:CAF587)
- **GDP:** \$17.7 billion (2014 estimate)
- **Inflation rate:** 3 percent (2014 estimate)
- **Exports 2014:** \$13.3 billion
- **Imports 2014:** \$6.44 billion

- **Main industries:** Oil, natural gas, sawmilling
- **Major export partners:** China (18 percent), Japan (14.9 percent), UK (13.6 percent), France (11.1 percent), Brazil (7.8 percent), (Spain 7.8 percent)
- **Major import partners:** US (28 percent), Spain (16.5 percent), China (13.2 percent), France (5.7 percent), Italy (5.1 percent), Côte d'Ivoire (4.1 percent)

## GEOGRAPHY

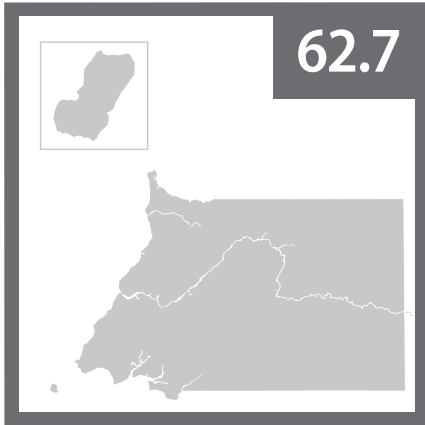
- **Area:** 28,051 square kilometres
- **Coastline:** 296 kilometres
- **Country borders:** Cameroon and Gabon (land); Nigeria, São Tomé and Príncipe (maritime)

## ENERGY

- **2014 crude oil production:** 281,000 bopd
- **2014 proven oil reserves:** 1.1 billion barrels
- **2014 natural gas and liquids production:** 243,000 boepd
- **2014 proven natural gas reserves:** 38 bcm (1.34 tcf)

**Sources:** International Monetary Fund, World Bank, CIA World Factbook, US Energy Information Administration, BP Statistical Review 2014, Financial Times, BBC, Heritage Foundation, UNDP and the Ministry of Mines, Industry, and Energy

# The Equatorial Guinea 2015 Investors Index



**The Equatorial Guinea 2015 Investors Index** saw energy executives reflect their concerns on the status of the local market. The country's index score has dropped considerably, from 89.6 in 2014, to 62.7.

Equatorial Guinea is experiencing its third year of recession in a row. This situation, along with depressed oil prices, are likely core contributors to the decline.

The cancellation of and delays in many exploratory and development drilling programmes have had a negative trickle down effect throughout the supply chain.

**DEVELOPMENT CONTINUES:** Notwithstanding such an outlook, the Ministry of Mines, Industry and Energy, or MMIE, has emphasised the development of the offshore industry and domestic downstream projects in 2015.

The year has already seen ExxonMobil sign the block EG-06 production-sharing contract and it is expected that the country's direct negotiation blocks, EG-07, EG-08, EG-09, EG-10 and EG-18, will see further contracts signed by the end of the year.

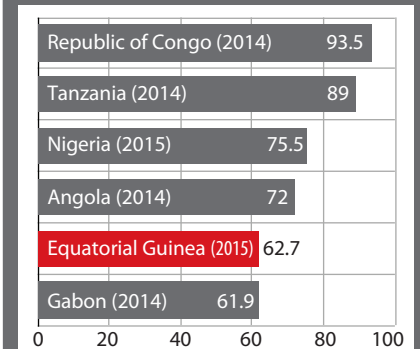
The development of block R's Fortuna floating LNG project continues, with operator Ophir Energy securing a gas fiscal agreement with the MMIE and national oil company GEPetrol and selecting London-based Golar LNG as the midstream operator in 2015.

Meanwhile, Nigeria-based conglomerate Taleveras Group will participate in the construction of the Bioko Oil Terminal, India's Archean Group in the Integrated Petrochemical Complex in Riaba, and Chinese investors in the Industrial City of Mbini and Luba Industrial Petroleum City.

**COMMERCIAL CONSERVATION:** Despite the decrease in the general index, about 42 percent of respondents feel it is still "easy" or "very easy" to do business in the country.

State oil and gas policies have been perceived as improved, with almost 29 percent of respondents stating they are "pro-business," nearly 58 percent offering a response of "pro-business, but restrictive" and 14 percent opting for either "anti-business, but restrictive" or "anti-business." In 2014, a share of 20 percent favoured the latter two responses.

## BY MARKET



**MARKET CONSTANCY** In 2014, 92 percent of index participants believed that the country was "stable" or "highly stable." A drop of 8 percent to around 84 percent in 2015 is slight, given the contribution of oil and gas to state revenue at a time of low oil prices. ■

**ABOUT THE INDEX:** The TOGY Investors Index is designed to measure confidence among oil and gas investors as expressed in their level of spending in any given market.

A reading above 50 on the index represents a positive perception among oil and gas investors, while a reading below 50 indicates a pessimistic outlook. The Equatorial Guinea 2015 index is based on the responses of 45 oil and gas executives, investors and officials.

## RESPONSE

**How would you describe the policies of this government vis-à-vis the oil and gas industry?**

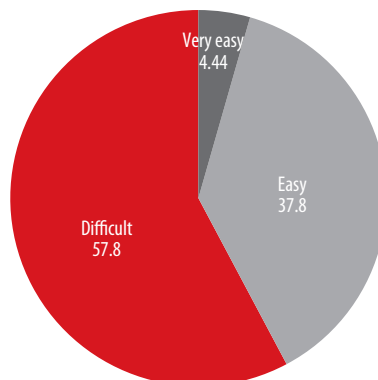
|                                  |        |
|----------------------------------|--------|
| Pro-business                     | 28.9 % |
| Pro-business, but restrictive    | 57.8 % |
| Anti-business, but accommodating | 11.1 % |
| Anti-business                    | 2.22 % |

**How would you rate the ease of starting an oil and gas business in this market?**

|                     |        |
|---------------------|--------|
| Very easy           | 2.22 % |
| Easy                | 33.3 % |
| Difficult           | 57.8 % |
| Extremely difficult | 6.67 % |

**How would you rate the ease of doing business in this country?**

|                     |        |
|---------------------|--------|
| Very easy           | 4.44 % |
| Easy                | 37.8 % |
| Difficult           | 57.8 % |
| Extremely difficult | 0 %    |



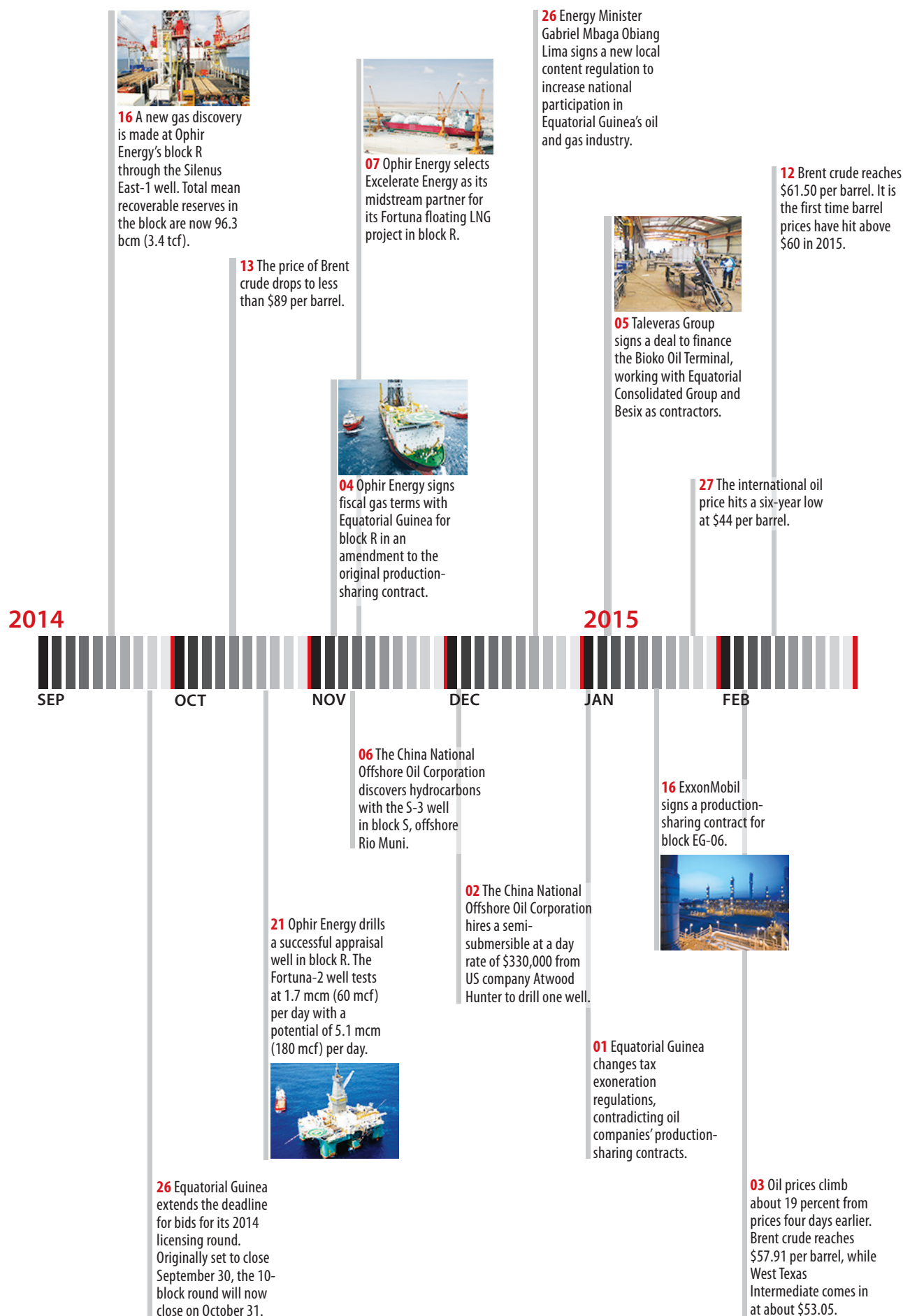
**How would you rate the level of transparency in this oil and gas market?**

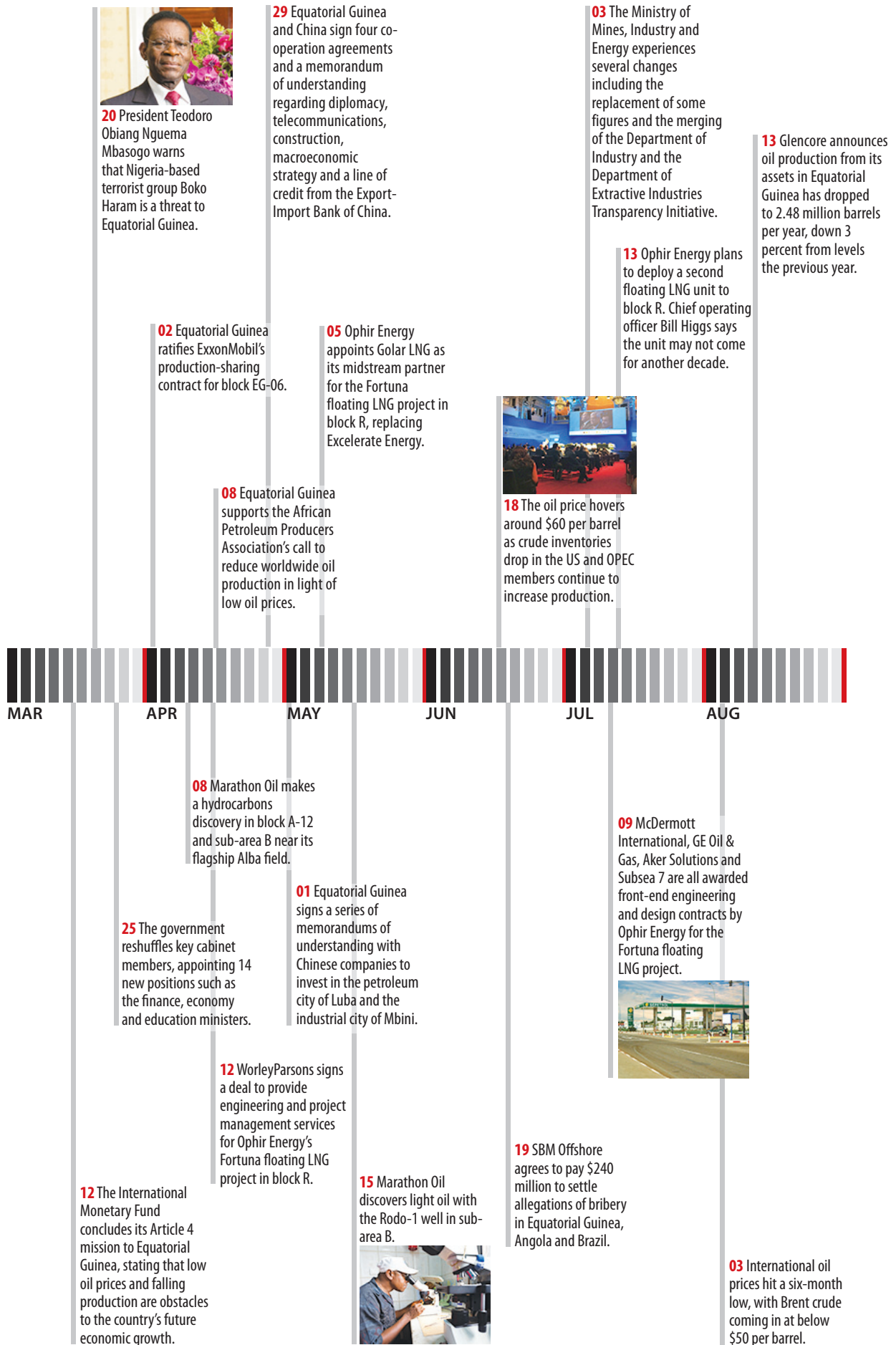
|                  |        |
|------------------|--------|
| Very transparent | 8.89 % |
| Transparent      | 62.2 % |
| Not transparent  | 24.4 % |
| Corrupt          | 4.44 % |

**How would you rate the level of political and economic stability in this oil and gas market?**

|                 |        |
|-----------------|--------|
| Highly stable   | 17.8 % |
| Stable          | 66.7 % |
| Unstable        | 15.6 % |
| Highly unstable | 0 %    |

**Source:** The survey conducted by The Oil & Gas Year in Equatorial Guinea between January 2015 and May 2015





The image shows the Mexican flag waving against a bright blue sky filled with white, fluffy clouds. The flag is attached to a silver flagpole with a decorative finial. The flag's design consists of three horizontal stripes: green at the top, white in the middle, and red at the bottom. In the center of the white stripe is the national coat of arms, which depicts a golden eagle perched on a cactus, holding a snake. Above the coat of arms are five yellow stars. Below the coat of arms is a banner with the words "UNIDAD EN LA PAZ".

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Agustín MBA OKOMO

Secretary-General

MINISTRY OF MINES, INDUSTRY AND ENERGY

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César A. HINESTROSA GÓMEZ

Director of Industry

MINISTRY OF MINES, INDUSTRY AND ENERGY