

**MINISTRY OF MINES,
OIL AND ENERGY
OF COTE D'IVOIRE**

Republic of Côte d'Ivoire
Union – Discipline – Work

THIRD INDIA-AFRICA HYDROCARBONS CONFERENCE

Theme :

**« NATURAL GAS:
THE NEW VISION OF CÔTE D'IVOIRE »**

New Delhi (India), December 9-10th 2011

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On behalf of Minister Adama TOUNGARA, Minister for Mines, Oil and Energy of Côte d'Ivoire



AN OVERVIEW OF THE OIL AND GAS SECTOR

Exploration – Production (E&P)

Started since the colonial period, no discovery made.

October 1970 : first contract signature

October 1975 : creation of the State Oil Company (PETROCI) for the intensification of hydrocarbon exploration

• Production :

- Crude oil = 35 000 bopd ;

- Natural Gaz = 150 millions cubic feet per day



AN OVERVIEW OF THE ELECTRICITY SECTOR

Current situation

- Current capacity : 1 390 MW
(5 hydraulic centers :43%, 5 thermal power station :57%)
- 1/3 CI electrified : 2 777 localities on 8 513
High dependence of natural gas (70%)
- 25% population has access to electricity (Morocco : 98%
world average : 44%)
- Low consumption : 165 kWh *per capita* (Ghana: 260 ;
Morocco : 637)
- Power outage mean time (High): 56 hours against 14
hours in 2000



SITUATION

President ALASSANE OUATTARA has the vision to make Côte d'Ivoire the largest market for Mines and Energy in Sub-Saharan Africa over the next twenty years.

After having developed one of the best electrical systems in sub-Saharan Africa, Côte d'Ivoire has initiated series of reforms to solve the difficulties.

The discovery of large oil reserves has aroused great hopes.



Consequently, after exploration and developement of natural gas fields were intensified.

In 1995, the first field of natural gas was producing 55 MMCF/D were developped to feed the first thermal power generator with an Independant Power Producer (IPP).

In 1999, the largest gas field producing at early stage 35 MMCF/D was developped to feed the second thermal power generator, with the second IPP.



SITUATION

The revival and new positioning of Côte d'Ivoire as a regional leader, brings us to programs geared at :

- ✚ intensifying the exploitation of hydrocarbon reserves in order to make these sectors real industrial centers ;
- ✚ Making energy abundant, high quality and cheap to accelerate economic and social development ;
- ✚ strengthening human resources skills to adapt to demands of the energy sector.



With a increasing demand of power from neighboring countries, Cote d'Ivoire decided to emphasize gas exploration.

As a result, since 2002, associated gas is produced from an oil field. In 2005, another oil field produced associated gas. The gas produced from these two fields is directly transferred to thermal power generators.



Today the current situation is as follows :

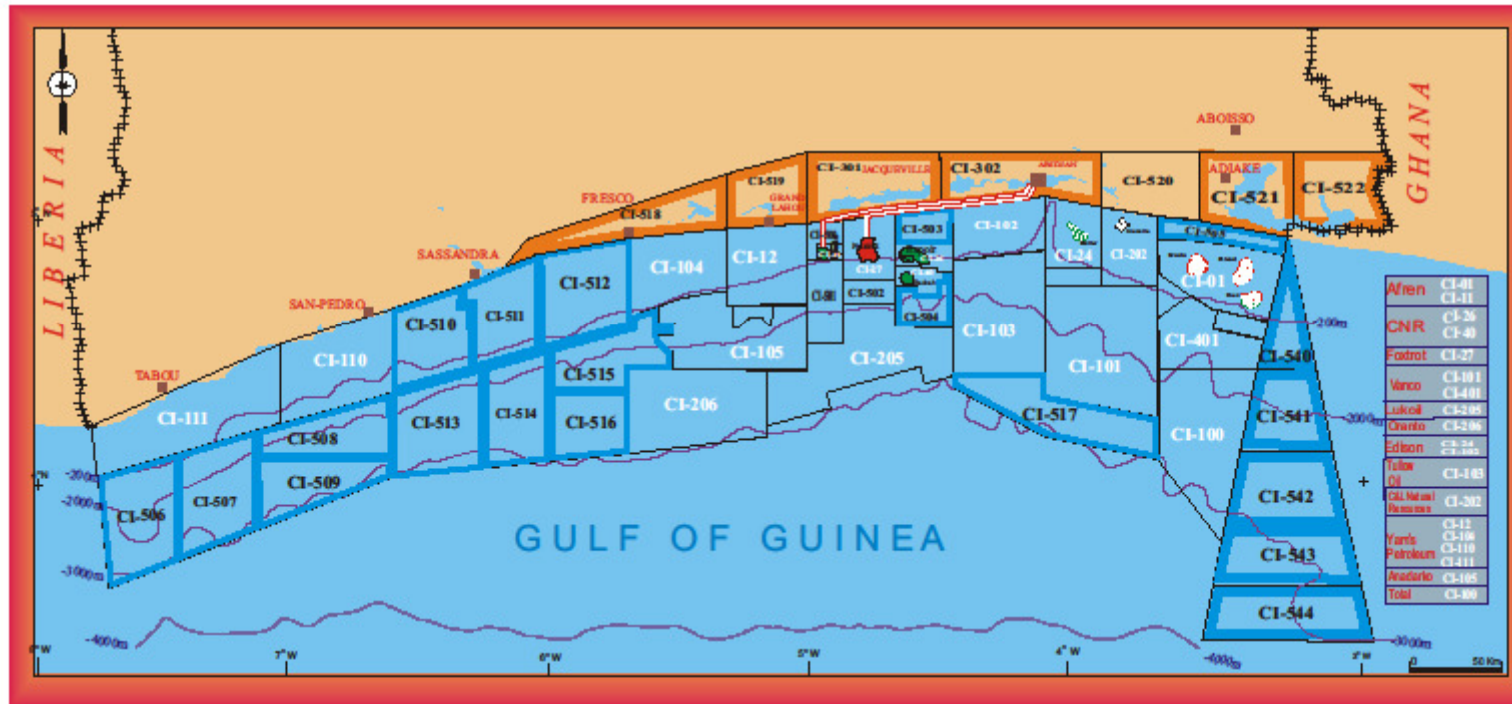
- 70% of the power produced is from thermal generators and feeded by natural and associated gas;
- Our current production of natural gas is 150 MMCF/D;
- This is not sufficient and we aim at producing and developing more gas fields;
- We intend to import LNG or natural gas from Ghana and Nigeria through the West African Pipeline that connect Nigeria, Togo and Ghana.



We ambition to add power capacity of about 150 MW per year over the next five years. This is due the energy demand by neighboring countries (WAPP); the expected economic growth rate of about 8% per year requested by the mining sector.



REPUBLIC OF COTE D'IVOIRE PETROLEUM EXPLORATION CONCESSIONS



CONCESSIONS OFFERED

PIPELINE



PRODUCING OIL FIELDS



OIL FIELDS TO BE PRODUCED



DEPLETED OIL FIELDS



PRODUCING GAS FIELDS



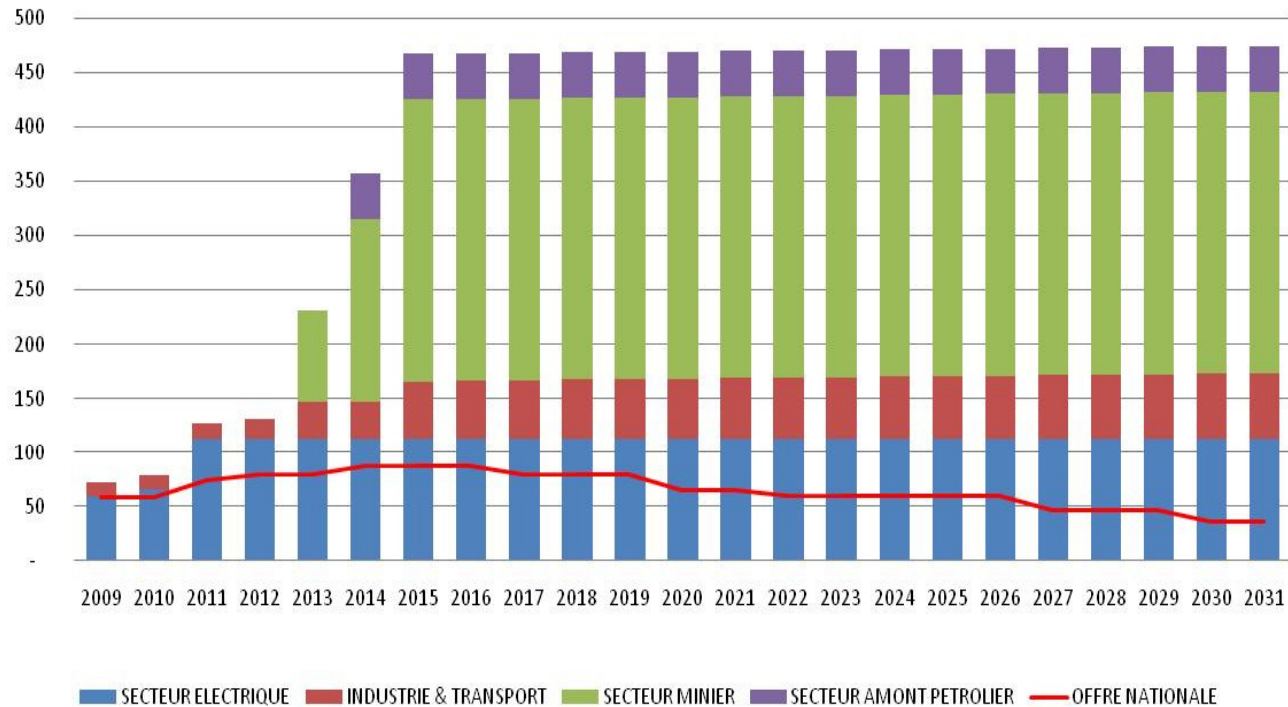
GAS FIELDS TO BE PRODUCED

"This map is not an authority on international boundaries"

NOVEMBER 2011



NATIONAL DEMAND/SUPPLY OF NATURAL GAS



Much more gas is needed to satisfy growth of the electricity sector's needs.



On behalf of Minister Adama TOUNGARA, Minister of Mines, Oil and Energy of Côte d'Ivoire, I would like to warmly thank the Government of India for kindly inviting us to this great forum for India-Africa Oil Cooperation !

Our thanks to the Honorable Audience for its attention !

Thank you !