

GULF OF GUINEA GAS CONFERENCE 2013

November 6-9, 2013

Natural gas: Supporting sustainable development in the Gulf of Guinea and Africa



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Natural gas in Africa: 7.7% of world reserves

Source: BP Statistical Review 2013



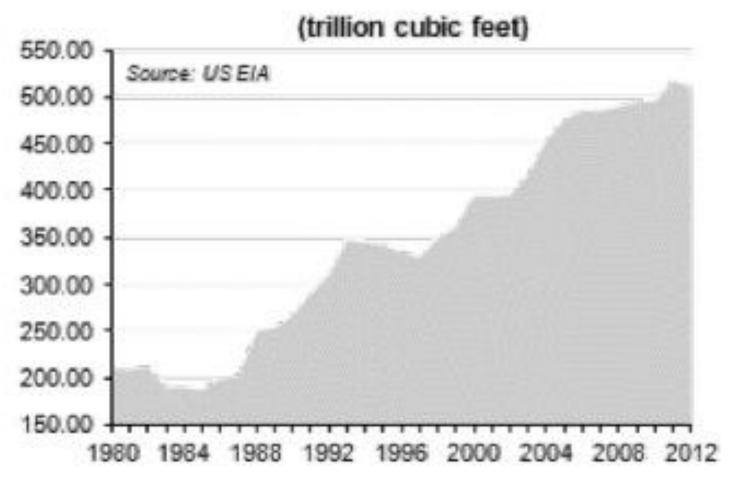
Distribution of proved reserves in 1992, 2002 and 2012

Percentage



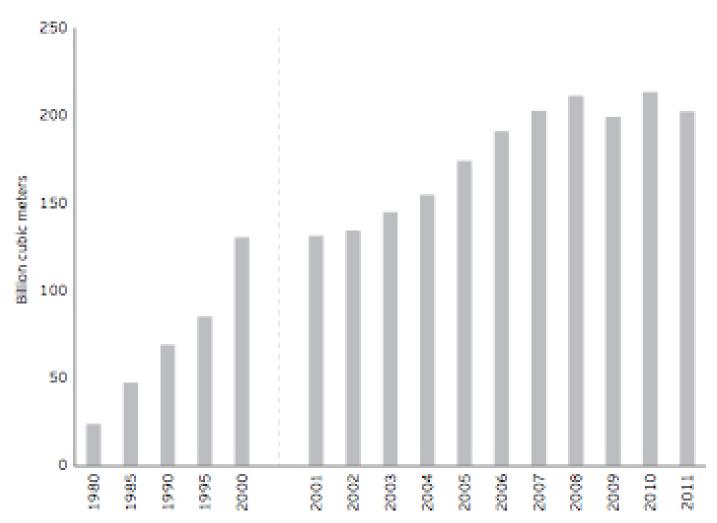
Africa's proven reserves of natural gas





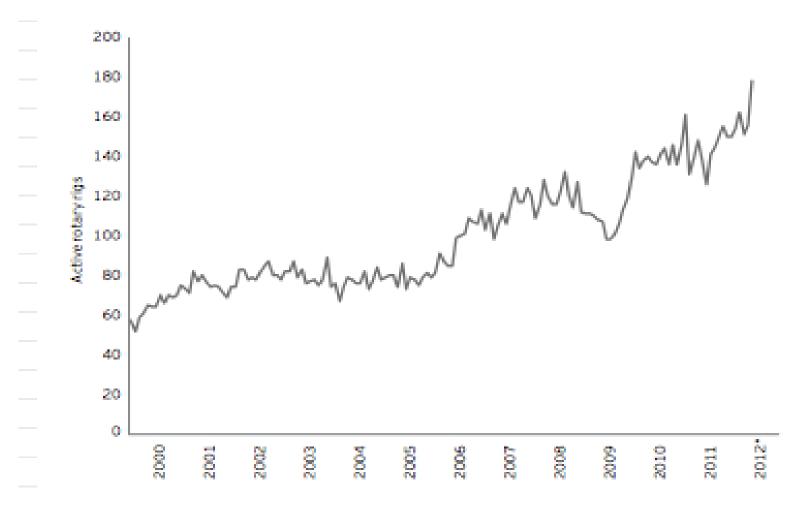
African natural gas production





African oil and gas drilling rig counts



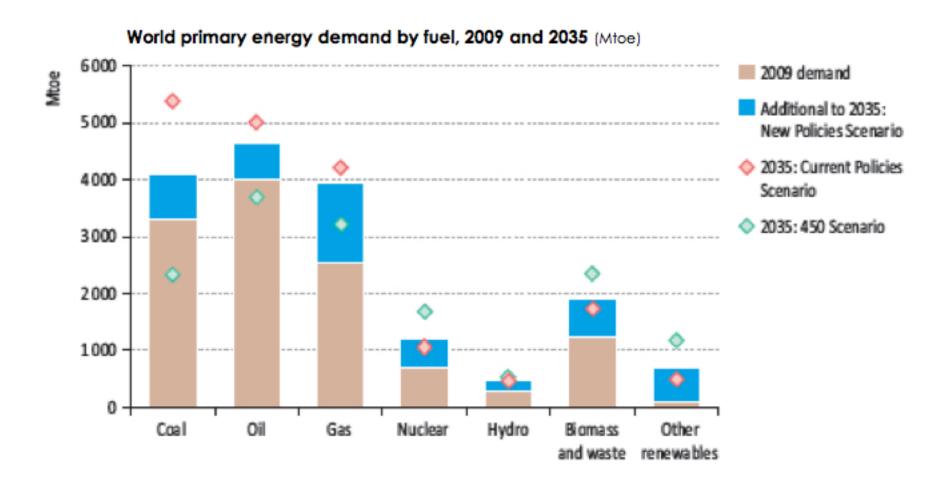


*2012 through June

Source: Ernst & Young analysis of Baker Hughes Inc. data.

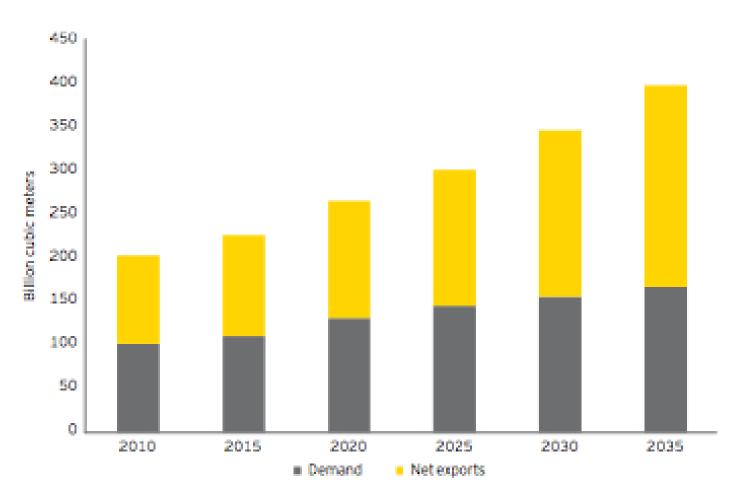
Natural gas: the major contributor to energy growth





Natural gas in Africa: Are we striking the right balance between internal demand and exports?





Source: Ernst & Young calculations from the International Energy Agency (IEA), "Golden Rules for a Golden Age of Gas," June 2012

LNG installed capacities and developments in Africa

Source: Taqa, IGU, Ernst & Young, IEA



Country	Project	Start*	Capacity (MT/yr)	Operator	Country	Project
Existing/operating				-	Planned/possible	
Algeria	Arzew (3 trains)	1964	1.1	Sonatrach	Algeria	Arzew GL32
	Skikda (4 trains)	1972	7.6	Sonatrach	Algeria	Skikda LNG
	Bethioua (12 trains)	1978	16.5	Sonatrach	Libya	Marsa El Bre
Egypt	Damietta (1 train)	2005	5.0	ENI	Nigeria	Progress FL
	ELNG (2 trains)	2005	7.2	BG Group	Cameroon	Kribi LNG
Libya	Marsa El Brega	1971	3.2 Sirte Oil	Sirte Oil	Egypt	Damietta T2
	(2 trains)			Equatorial Guinea	Punta Eur T	
Nigeria	NLNG (6 trains)	1999	22.2	NNPC	Mozambique	Mozambique
Equatorial Guinea	Punta Eur (1 train)	2007	3.7	Marathon	Nigeria	Brass LNG T
Angola	Angola LNG (1 train)	2012	5.2	Chevron	Tanzania	Tanzania LN
			71.7		Mozambique	Mozambique
					Nigeria	Brass LNG T
					Nigeria	NLNG T7
					Nigeria	NLNG T8

Country	Project	Start*	Capacity (MT/yr)	Operator
Planned/possible				
Algeria	Arzew GL3Z	2013	4.7	Sonatrach
Algeria	Skikda LNG	2013	4.5	Sonatrach
Libya	Marsa El Brega T3	2016	2.6	Sirte Oil
Nigeria	Progress FLNG	2017	1.5	NNPC
Cameroon	Kribi LNG	2018	3.5	GDF Suez
Egypt	Damietta T2	2018	4.8	ENI
Equatorial Guinea	Punta Eur T2	2018	4.4	Marathon
Mozambique	Mozambique T1	2018	5.0	Anadarko
Nigeria	Brass LNG T1	2018	5.0	NNPC
Tanzania	Tanzania LNG T1	2018	6.6	BG Group
Mozambique	Mozambique T2	2019	5.0	Anadarko
Nigeria	Brass LNG T2	2019	5.0	NNPC
Nigeria	NLNG T7	2019	5.0	NNPC
Nigeria	NLNG T8	2020	8.5	NNPC
Nigeria	OK LNG	2020	12.6	NNPC
Mozambique	Mamba	2020	10.0	ENI

The west African Gas Pipeline (WAGP)





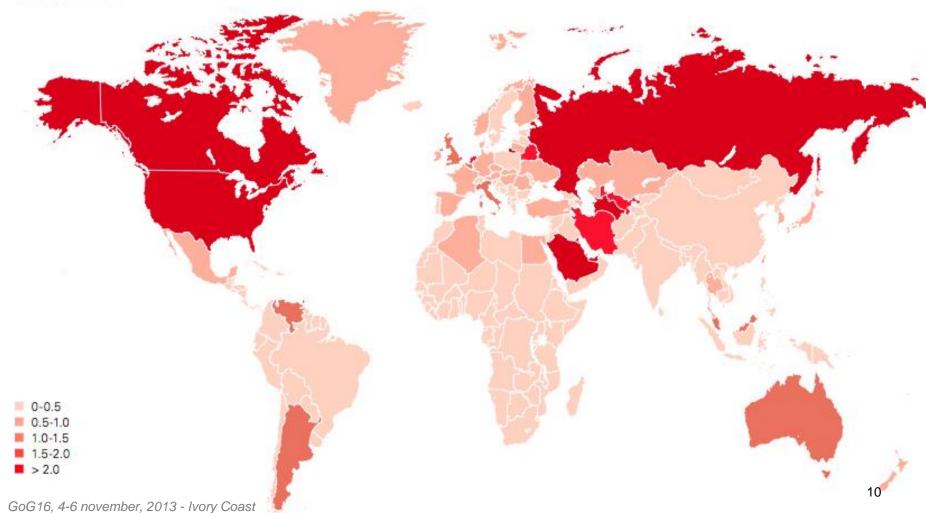
Africa has a wide potential for an increased access to natural gas

Source: BP Statistucal Review 2013



Consumption per capita 2012

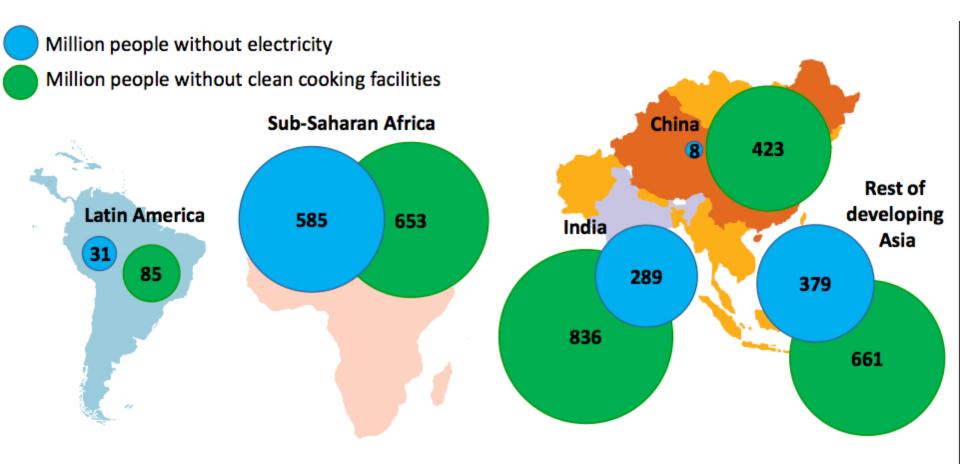




Energy poverty is widespread

SOURCE: IEA

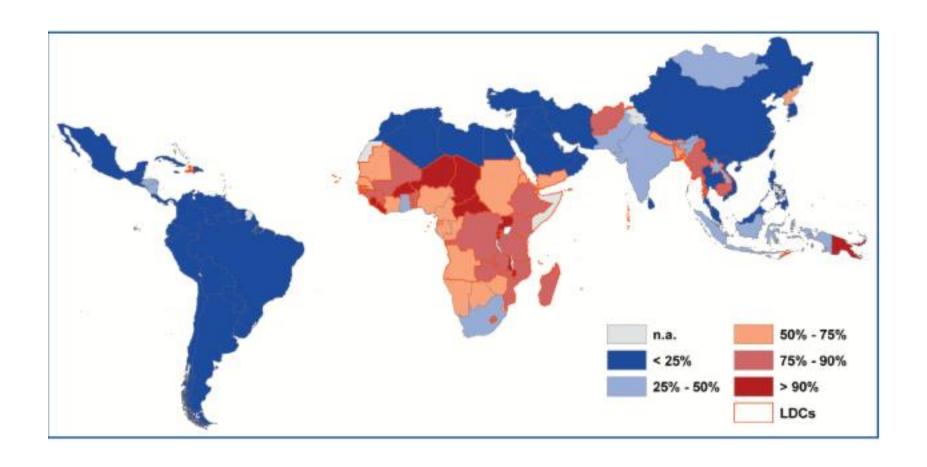




Share of people without electricity access, 2008

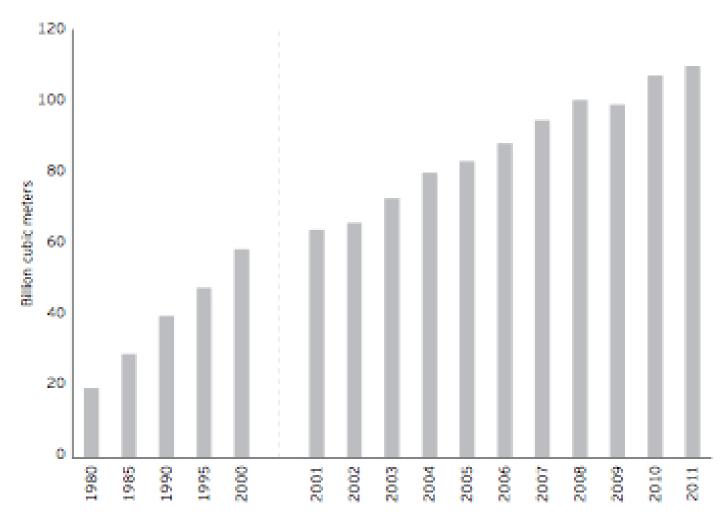
Source: World Health Organization





African natural gas internal consumption: less than 50% of production





Source: "BP Statistical Review of World Energy," BP plc, June 2012.

2015 World Gas Conference





26th

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