

DEVELOPMENTS IN THE NIGERIAN OIL AND GAS INDUSTRY, INVESTMENT OPPORTUNITIES

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Honourable Minister for Petroleum Resources
Federal Republic of Nigeria



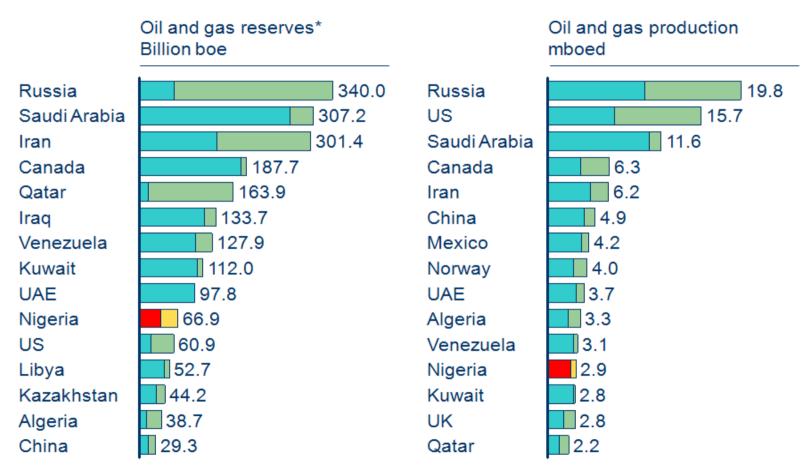
OUTLINE



- Introduction
- Production Stabilization & Expansion
- Natural Gas Revolution
- Petroleum Industry Bill
- Investment Opportunities

INTRODUCTION Nigeria's Global Ranking in Reserves and Production





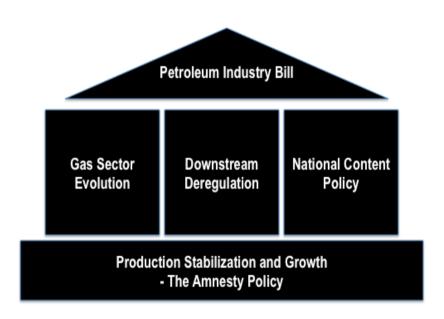
Nigeria's hydrocarbon potential is enormous – global ranking within top 15 in both reserves and production. Sector contributes over 80% of foreign earnings and almost 20% of GDP

INTRODUCTION Sector Aspirations and Key Levers of its' Transformat



National Aspiration for Oll and Gas

- •Grow crude oil reserves to 40bbn bbls and production capacity to 4mmb/d by turn of decade
- •Eliminate wasteful gas flares and leverage the huge potential of natural gas for unprecedented economic growth
- •Ensure better linkage between the sector and the wider economy essentially increase the GDP impact of the sector
- •Entrench a legislative framework that supports competitiveness, transparency and long run self renewal of the sector



OUTLINE

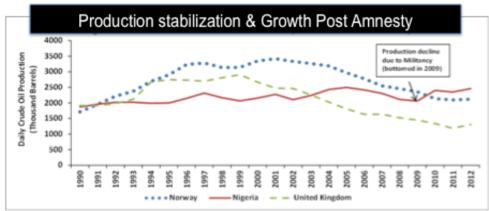


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PRODUCTION STABILIZATION AND CAPACITY GROW







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PRODUCTION STABILIZATION AND GROWTH Niger Delta Security





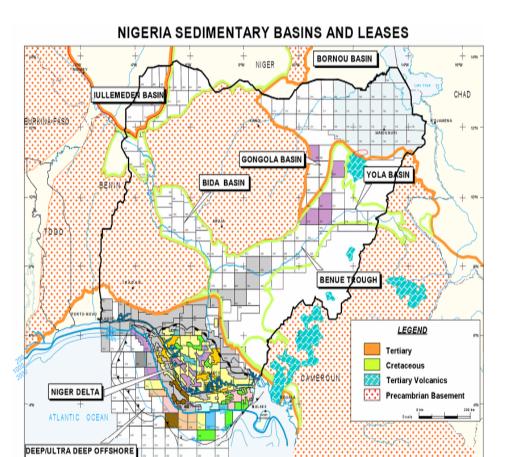
5 PRONGED EFFORT

- 1.Law Enforcement
- 2.Amnesty and Rehabilitation
- 3.Infrastructural Development of Region
- 4. Economic Empowerment of the Communities
- 5.Stimulating Investment Inflows into Region for Sustainability

A multi-pronged approach to security in the region is yielding results, creating a more stable environment for production

PRODUCTION STABILIZATION AND GROWTH Reserves Growth through Focus on Frontiers





- Historical focus was on Niger Delta basin
- In the 90s' the Deepwater Basin was focus, resulting in over 6 bn bbls reserves addition and now about 40% of total daily production
- New focus now on the inland Basins Chad and Benue Basins
 - Significant spend now being committed to aeromagnetic surveys for better definition
 - Establishment of a Frontier Exploration
 Basin to focus on these frontiers

Extending the Frontiers of the Nigerian Oil and Gas Industry!!

OUTLINE



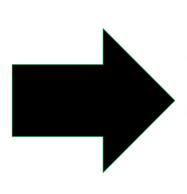
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THE NATURAL GAS REVOLUTION Flares to Value



Major expansion in gas utilization and reduction in flares is our objective



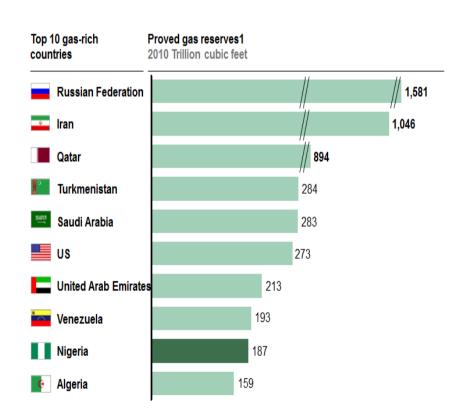




We are embarking on the most aggressive repositioning of the Nigerian Gas Sector to create wealth!!

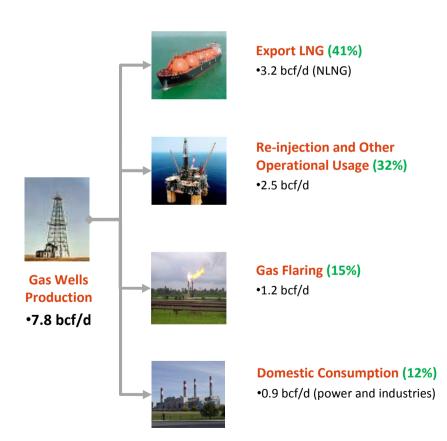
Enormous Gas Reserves





SOURCE: BP Statistical Review of World Energy June 2011

CURRENT DAILY GAS PRODUCTION AND UTILISATION



THE NATURAL GAS REVOLUTION Focused 3-Point Strategic Agenda



STRATEGIC THEMES OF GAS MASTER PLAN

GAS TO POWER



 Deliver Gas for at least threefold increase in generation capacity by 2015

GAS BASED INDUSTRIALISATION



"... By 2014, we would have positioned Nigeria firmly as the undisputed regional hub for gas-based industries such as fertilizer, petrochemicals and methanol."

Deliver on President's Gas Revolution Agenda to:

- •Create regional hub for gas-based industries fertilizer, petrochemical and methanol
- •Transform gas sector to value adding sector

HIGH VALUE EXPORT





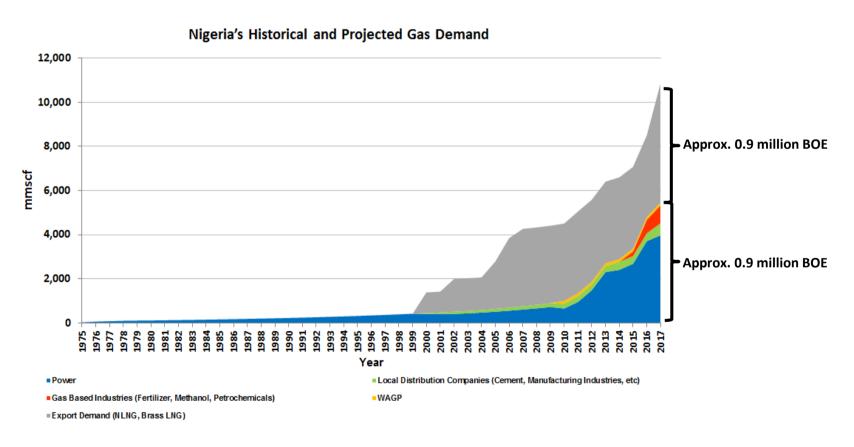
Consolidate Nigeria's position and market share in high value export markets

•Regional gas pipelines – consolidate national footprint and influence

Birth of a New Industry



Gas growth agenda translates to a 1.8mmBOE/d industry – potentially within top 3 in Africa. An unprecedented platform for investment opportunities

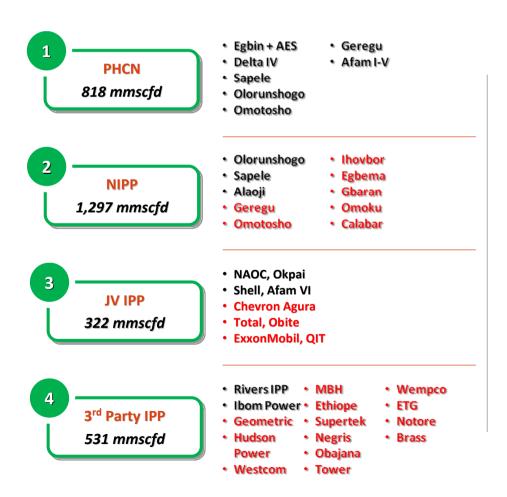


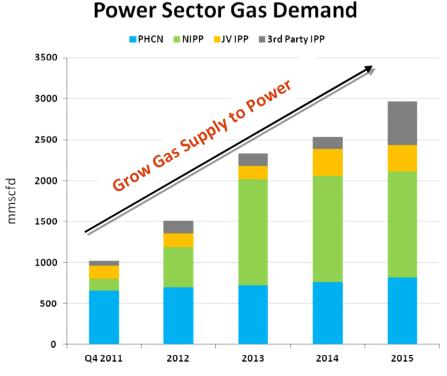
Our unique blend of huge domestic market coupled with solid export footprint provides unparalleled capacity to mitigate risks in an uncertain global gas market!!

Gas to Power Progress



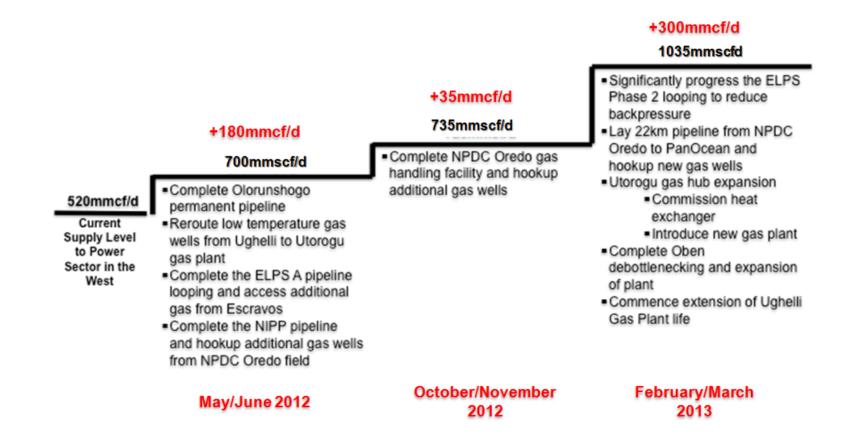
Our efforts in Power are focused on meeting a projected 3 bcf/d of gas demand by about 37 existing and proposed power plants which have a collective potential to generate about 12GW by 2015





Short Term Gas Supply Plan

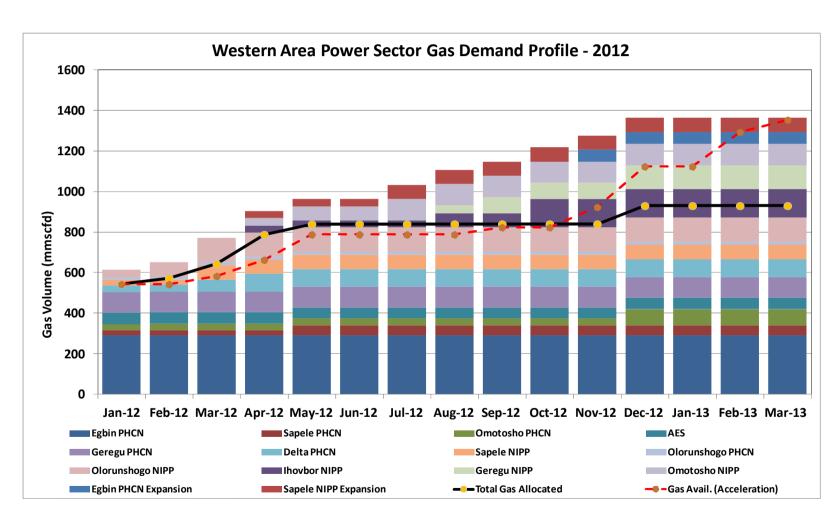




By the end of 2012, we would have added enough gas to support a 30% expansion in power generation capacity relative to position at the beginning of the year

Short Term Impact of Interventions (to Q1 2013)





Nigeria is Lighting up!



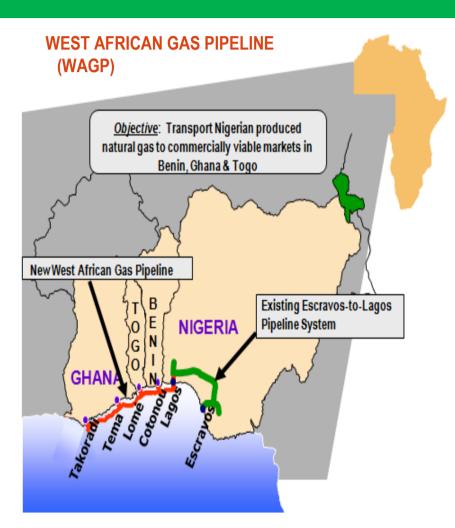
The impact of improved gas supply to power is the recent improvement in power availability across Nigeria. This is set to grow as the reforms in gas take a foothold in delivering sustainable supply.



Lagos at night is now much brighter!! Nigeria is lighting up!!

THE NATURAL GAS REVOLUTION Regional Gas Supply – The West African Gas Pipeline





- **■**Commenced supply to the West African Subregion
- About 100mmcf/d is being supplied and growing steadily
- ■Sub-region demand is growing in turn- estimated at 400mmcf/d by 2015, creating further opportunities in Nigeria to grow supply

Sub-regional demand growth is creating huge investment opportunities in Nigeria to grow supply

THE NATURAL GAS REVOLUTION Export LNG – The Brass Project



BRASS LNG



- 10MTPA of LNG, 2.4MTPA of LPG and 0.2
 MTPA of NGLS; Will monetize about 12TCF of gas reserves
- ■NNPC 49% equity, Agip 17%, Total 17% and ConocoPhillips 17%
- Target FID in Early 2013; Project development in very advanced stages
- Significant planned export to Japan
 - NNPC in JV with Japan LNG and Itochu to jointly market LNG
- ■Other LNG projects under evaluation NLNG T7 and OK-LNG

THE NATURAL GAS REVOLUTION Gas Based Industrialization Programme



The complex will house a 2bcf/d gas processing plant, Petrochemical plant, Fertilizer Plant, port etc. Over the next few years, over \$12bn is planned to be expended on this complex

- Xenel/NNPCJV
- 1.3MTPA/400KTPA
 Polyethylene and
 Polypropylene plant



- Nagarjuna/NNPC/DSG
- 2.6MTPA Urea/Ammonia Fertilizer plants and 6 fertilizer blending plants



SPV provides
Infrastructure
•Petrosaudi/NN
PC/DSG

FTZ BASE INFRASTRUCTURE

PORT INFRASTRUCTURE

POWER PLANT

OTHER SUPPORT SERVICES

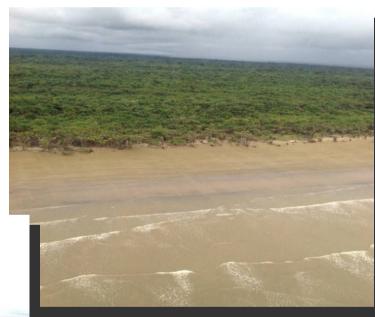
THE NATURAL GAS REVOLUTION Gas Based Industrialization Programme



Africa's largest gas industrial park to be located in Delta state, Nigeria.





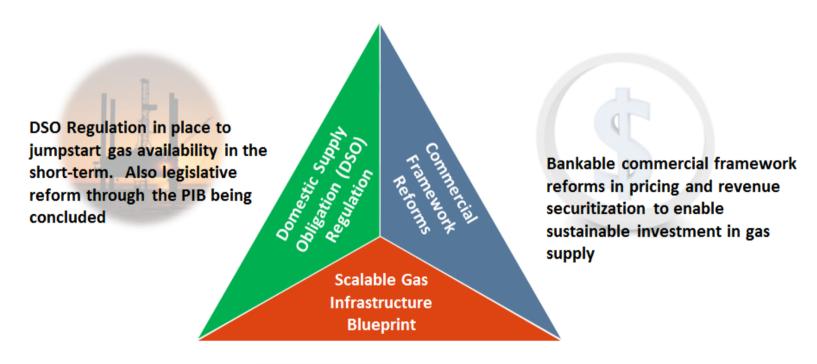


- Coastal location well suited for export
- Served by existing gas infrastructure
- Close to Chevron's Escravos location
- Purpose built to support gas based industrialization

Enabling Policy Thrust



The aspiration is supported by a set of enabling policy interventions which are already being implemented

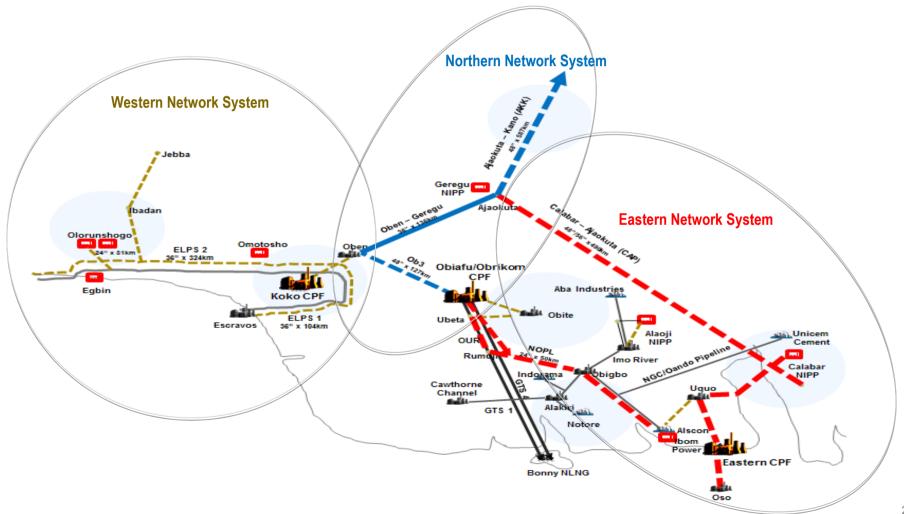


National Blueprint for Backbone gas pipeline and processing infrastructure that will enable flexibility in supply delivery

THE NATURAL GAS REVOLUTION Aggressive Gas Infrastructure Expansion Ongoing



Our effort is implementing three (3) Infrastructure network, expanding the western network system (ELPS) and reinforcing the Northern Network and Eastern Network Systems



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ENHANCING GDP CONTRIBUTION Nigerian Content Development Policy



Medium Term Objectives

Retention of significant industry spend on design engineering services as a result of growth in incountry engineering man-hours and consolidation /growth in the number of engineering companies

To create the required fabrication infrastructure and facilities where Oil and Gas work will be done and where Nigerians will be employed.

Long run attain cost competitiveness through local capacity utilization for a major portion of industry expenditure

Chevron Flare Knockout Drum



AGIP Separator 2

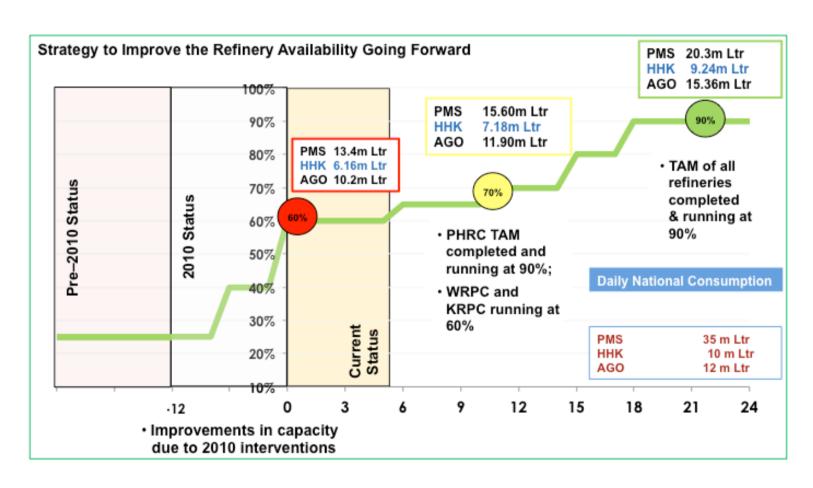


The Nigerian Content initiative is vehicle for better linkage of sector with wider economy. Our aspiration is to Operate the NCD Act in an investor friendly manner

Refineries Rehabilitation Programme:

Attaining 90% Capacity Utilization Sustainably





At full capacity, the refineries are still unable to meet the growing PMS demand of Nigeria. Additional investment is required in new refineries

PETROLEUM INDUSTRY BILL Key Objectives



- 1. Enhance industry transparency
- 2. Entrench effective institutional structures delineate Policy, Regulatory and Commercial roles
- 3. Distinct legislative framework for gas from oil
- 4. Establish a fiscal framework that is flexible, stable, progressive and competitively attractive
- 5. Create a commercially viable National Oil Company as well as Gas company
- 6. Improved environmental standards
- 7. Empowered host communities
- 8. Promote and protect Health Safety and Environment

PETROLEUM INDUSTRY BILL Institutional Clarity



Regulation	Policy	Operations
National Petrol. Inspectorate	Minister	NOC
	NPD (Petrol. Dircetorate)	International OCs
	NFES (Frontier Expl. Serv)	Indigenous OCs
	PHCF (Host Community Fund)	

Simple & Transparent; The Minister oversees all industry

PETROLEUM INDUSTRY BILL Transparency, Accountability & Good Governance



Transparency will be increased significantly through:

 Establishing an open and competitive bid process for the granting of all petroleum prospecting licenses and petroleum mining leases and contracts to be entered into by the NOC.

An open framework is created by eliminating confidentiality of:

- All texts of licenses, leases, contracts and their amendments
- Amounts of any petroleum revenue payments to government by individual companies
- Basis for petroleum revenue payments
- All geological, geophysical, technical and well data shall be accessible for all in a national data base
- Approved budgets for JV's and PSC's, Production, lifting, and quantities and values lifted by COMD

A clear guideline for revocation of licenses and leases

PETROLEUM INDUSTRY BILL World Class National Oil Company



- Limited liability public company, free from Government interference, not subject to FR & Public Procurement Act
- Fully integrated across the value chain
- Pays royalty, tax and dividends; Retain some earnings
- Actively manages portfolio; Assets to be initially endowed
- Ownership structure; initially largely Govt owned, followed by partial privatisation
- Strong and accountable governance
- Funding....from its cash flow
- Could have assets internationally

PETROLEUM INDUSTRY BILL Fiscal Framework



- Improve overall competitiveness in the oil and gas sector.
- Maintain percent government revenues from onshore/swamp and shallow offshore for crude oil and condensate at the current level.
- Increase government revenues from deepwater PSC operations, through adjusted royalty rates.
- Create attractive fiscal terms for gas in all terrains.
- Improve savings index by reducing tax rate (Sole risk/JV) and eliminating investment based fiscal incentives.
- Special incentive provisions (increased production allowances) included for PSCs in onshore/swamp/shallow offshore to partially compensate for investor value erosion due to profit share with government given the higher royalty and tax rates in these terrains compared to deepwater PSCs.

Defining a New Era in the Nigerian Oil & Gas Industry Enhanced Fiscal Regime



- Simplification of allowable deductions for NHT purposes
 - Only direct costs wholly and necessarily incurred in petroleum operations are eligible for deductions
 - No home office expenditures are eligible
- Capture of Windfall profits
 - Introduction of price based royalty for crude prices beyond \$70/bbl and gas prices beyond \$7/mmbtu
- Removal of all cost based incentives
 - Investment tax credits (ITC)or Allowances (ITA) have been removed in favour of defined production allowances for onshore, offshore and deep-offshore.
- Harmonization of oil & gas fiscal systems
 - Gas fiscal terms are fully integrated into oil fiscal systems for the first in Nigeria
- Preference for Nigerian goods and services
 - Foreign goods and services capped at 80% for deductions against NHT
 - Alignment with the National Content Act
- The PIB represents a complete overhaul of the Nigerian Petroleum Fiscal System

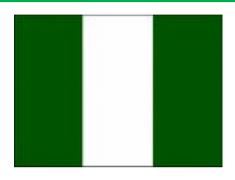
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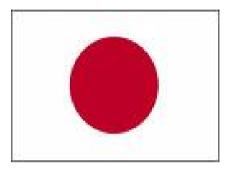
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INVESTMENT OPPORTUNITIES Nigeria/Japan Relationship





- Unprecedented oil and resource base
- Aggressive and clearly articulated expansion plan
 unparalleled investment platform
- Sustained effort at creating a viable and enabling environment

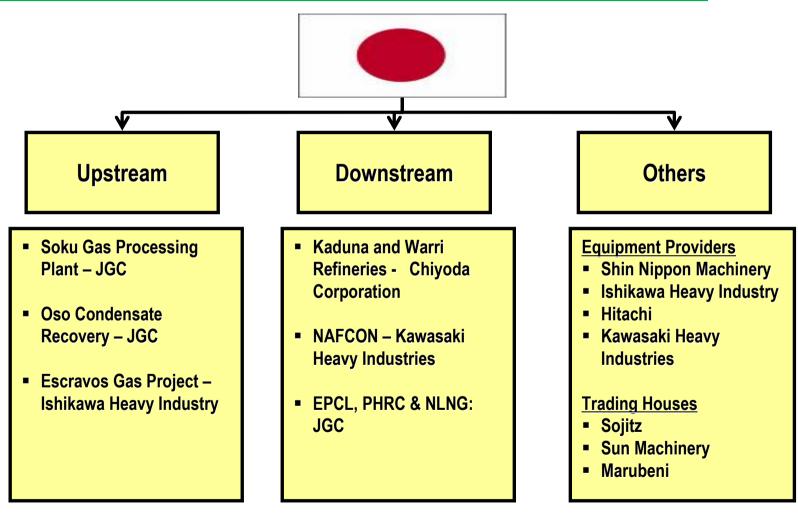


- Extensive manufacturing and technological base
- Huge appetite for resource import
- Access to low cost funds and investment capital

Huge scope for Japanese investment and sustained relationship in Nigeria!!

INVESTMENT OPPORTUNITIES Historical Involvement in Nigeria's Oil & Gas Sector





Japanese companies have played a major role historically in the Nigerian oil and gas industry

New Investment Opportunities







Nigeria is Open for Business!!



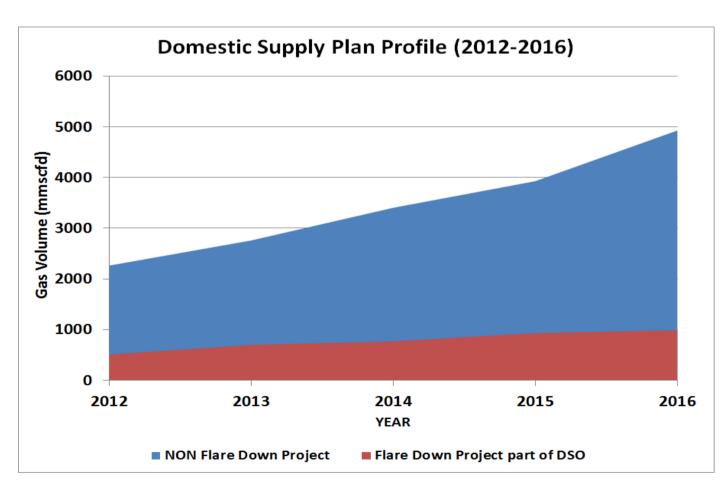
THANK YOU!!



THANK YOU

An Aggressive Gas Supply Growth Programme





To support the agenda is an aggressive gas supply growth programme which implicitly targets gas flares too



Domestic Gas Supply Development Projects

Our supply plan is expected to grow from a current supply of 1.3bscfd to about 5bscfd by 2016. Numerous projects are ongoing

