

6TH ANNUAL STAKEHOLDERS INTERFACE CHIEF EXECUTIVE'S PRESENTATION SEPTEMBER 6, 2015



Executive Summary

- 2014 was a financially challenging year with uncertainties in economic and energy environment
 - Revenue of GHS 2.230.75 million. No Government subsidies to VRA in lieu of tariff shortfall compared to a subsidy of GHS 644.27 million extended to VRA in 2013.
 - Operational loss of GHS 74.13 million in 2014 compared to a profit of GHS208.11 in 2013
 - Net loss of GHS 799.93 million (2013: Profit 61.74 million).
- Highest ever peak load of **1,970.9 MW**, signaling continuous increased electricity demand compared to **1,942.9 MW** in 2013.
 - Hydro availability above consolidated target of 90%
 - TTPS posted availability of 56.8%
 - Tema Thermal Complex registered 80% availability.
 - Navrongo Solar Power Plant recorded 100% availability.



Executive Summary (Cont.)

Key Challenges

- Low gas supply from WAPCO.
- Low net inflows into Akosombo reservoir
- 47% depreciation of average GH¢/US\$ exchange rate from GH¢1.9944/US\$ in 2013 to GH¢2.934/US\$1 in 2014.
 - 38% reduction in Crude oil usage.
 - 65% reduction in distillate fuel.
- No increase in tariff to account for higher depreciated currency.

Some Generation Projects

• Two (2) projects to be commissioned by end of year 2015



- 220 MW Kpone Thermal Plant expected to be completed by year end
 - 110 MW T2 Project commissioned

- Review of Technical and Financial Performance for 2014
- Short Term Projects to Help reduce supply shortfall
- Medium term projects
- Challenges

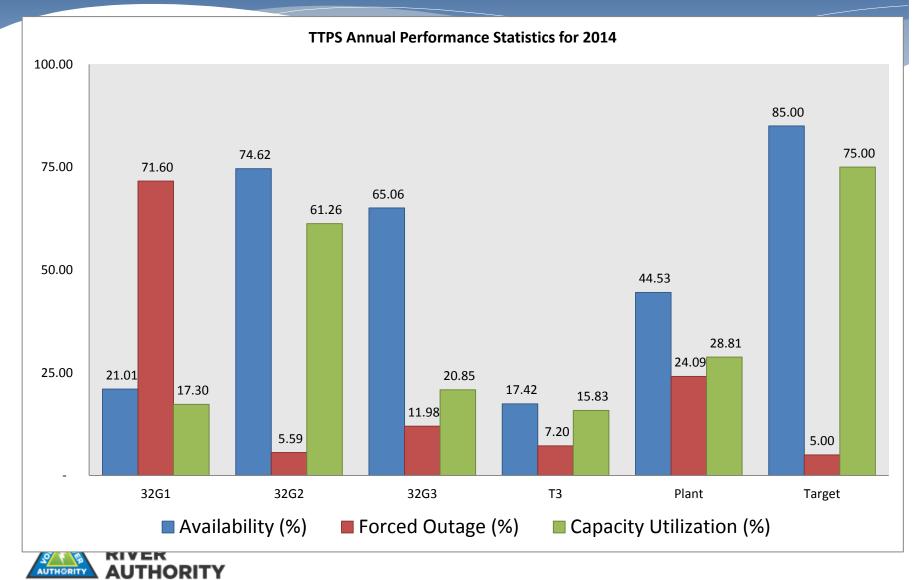


PERFORMANCE



5

THERMAL PLANT AVAILABILITY



FINANCIAL SUMMARY (2010 – 2014) www.vra.com 230,000.00 30,000.00 2012 2010 2011 2013 2014 AMOUNT'GHS'000 (170,000.00)(370,000.00) (570,000.00)(770,000.00)(970,000.00)

VRA-Operating Profit/(Loss)

GROUP-Operating Profit/(Loss)

- VRA-Net Profit/(Loss) After Tax
- GROUP-Net Profit/(Loss)

ELECTRICITY DEMAND AND SUPPLY

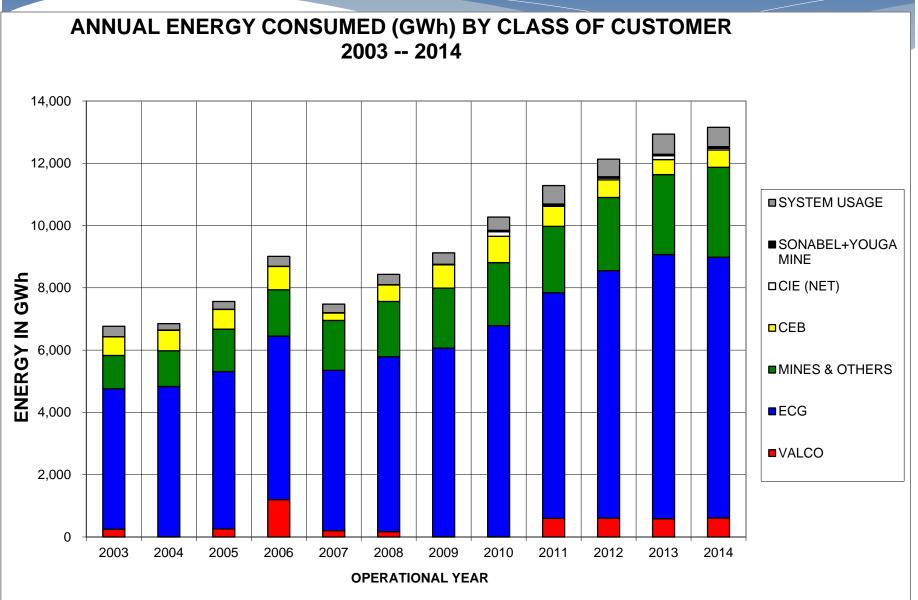




- Total energy sold to VRA's customers decreased by 576 GWh (6%) in 2014.
 - Energy sales of **10,325** GWh in 2013
 reducing to 9,749 GWh in 2014

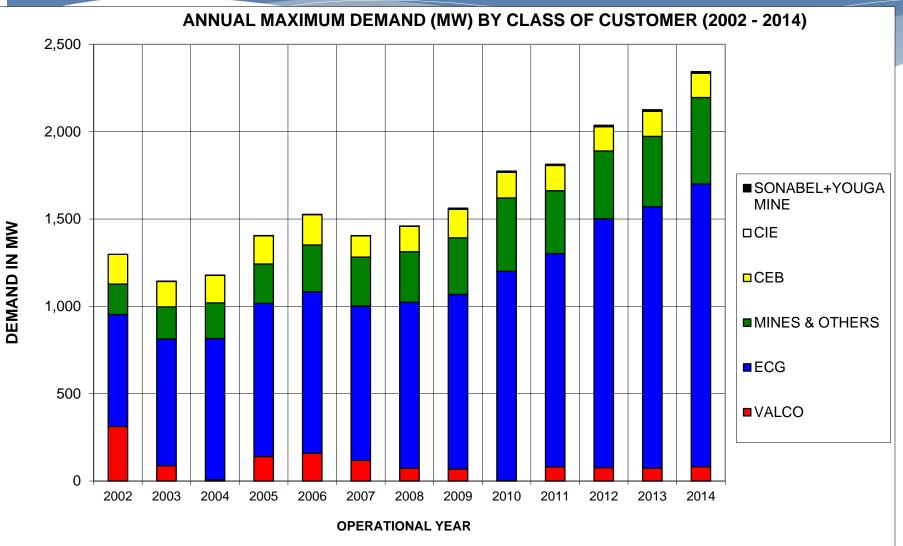


GHANA ENERGY SALES



ANNUAL DEMAND

www.vra.com



1. The reduction in 1999 demand was due to domestic load curtailment. Also there was load curtailment in 2006 and 2007 2. The maximum demand for 2002 is higher than that of 2003 because Valco's load was curtailed.

3. Supply to SONEBEL (border towns Po and Leo) commenced in 2003 but is insignificant and therefore not visible on the chart. Supply to Sonabel from 2009 includes Youga Mine

2014 FINANCIALS



12

2014 FINANCIAL HIGHLIGHTS

- Energy Sales increased by 0.84% (GH¢18.66 million) to GH¢2,230.73 million over previous year's sales of GH¢2,212.07 million).
- Cost of Sales increased by 11% (GH¢201.29 million) from GH¢1,851.06 million in 2013 to GH¢2,052.34 million in 2014.
- Administrative Costs increased by GH¢169.27 million (63%) to GH¢437.21 million (2013: GH¢267.93 million)
- Operating Loss of GH¢74.13 million compared with a profit of GH¢208.11 million in 2013.

GENERATION CAPACITY ADDITIONS



14

GENERATING STATIONS (INSTALLED CAPACITY)

VRA Plants	Installed Capacity (MW)	Dependable Capacity (MW)	Available Units (MW)
AKOSOMBO	1020	900	900
KPONG	160	140	105
TAPCO (T1)	330	300	300
TICO (T2)	330	300	200
Т3	132	120	0
TT1PP	110	100	100
TT2PP	49.5	45	33
MRP	80	70	40
SOLAR	2.5	0	2.5
TOTAL VRA	2214	1975	1680.5
SAPP	200	180	135
CENIT	110	100	100
BUI	400	340	260
Total Ghana	2924	2595	2175.5

VRA Ongoing Short Term Generation Projects to Improve Supply Situation

 Currently the power system of Ghana is experiencing load shedding of up to 700 MW

www.vra.com

- The situation has been compounded by low inflows so far into the Akosombo reservoir
- VRA is working on additional generation projects to complement the efforts of government to improve the power supply situation
 - **220 MW KTPP** Project is currently under construction and is expected to be commissioned by the end of the year.
 - The major challenge with this project has been financial and also long years of storage of the plant equipment which rendered some parts faulty
 - **250 MW AMERI** Power project to be commissioned in 2016 depending on how soon financial terms are concluded
 - **38 MW TT2PP** Expansion project to be commissioned by 2016

VRA Ongoing Short Term Generation Projects to Improve Supply Situation

www.vra.com

KPONE Gas Turbines & Generators

VRA Ongoing Short Term Generation Projects to Improve Supply Situation



www.vra.com

www.vra. @ANDIDATE GENERATION RESOURCES (2017-2022)

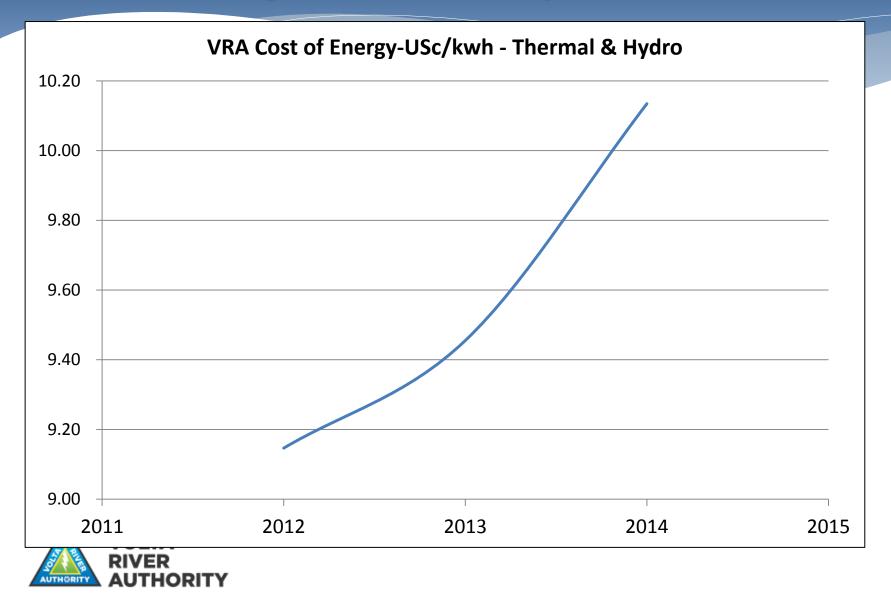
Expected Commissioning Year	Project	Installed Capacity (MW)	Total Installed (MW)	Implementation strategy
2017	T4 (SC)	110	110	VRA ECA-financed
2018	T4 (CC)	60		VRA ECA-financed
	KTPP Expansion	110	170	VRA/JV
2019	KTPP Phase 2	450	800	VRA
	Coal Plant-1	350		VRA/SAPP
2020	Coal Plant-2	350	800	VRA/SAPP
	DTPP	450		VRA/ JV
2022	Pwalugu Multipurpose Project	48	135	VRA –multilateral Debt
	Juale Hydro Project	87		VRA / JV

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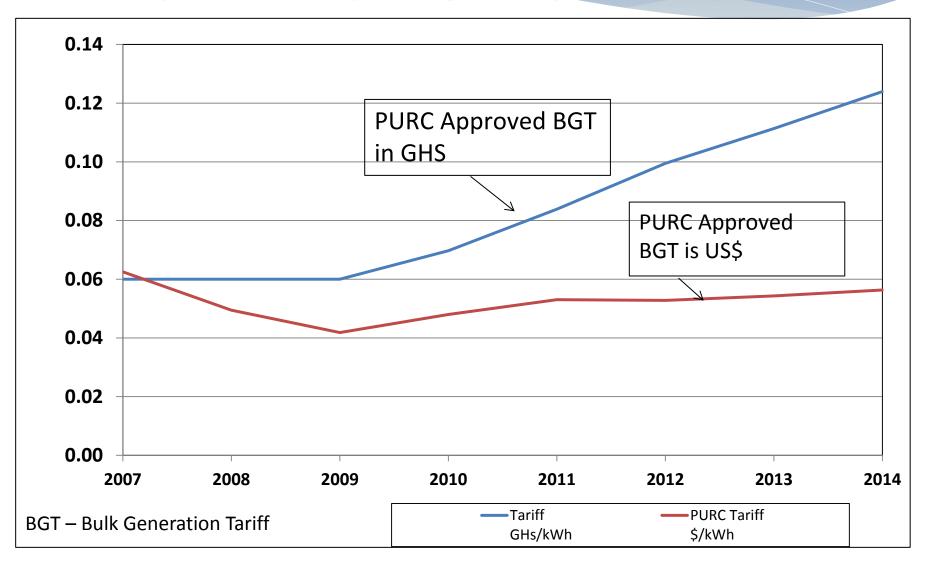
CHALLENGES



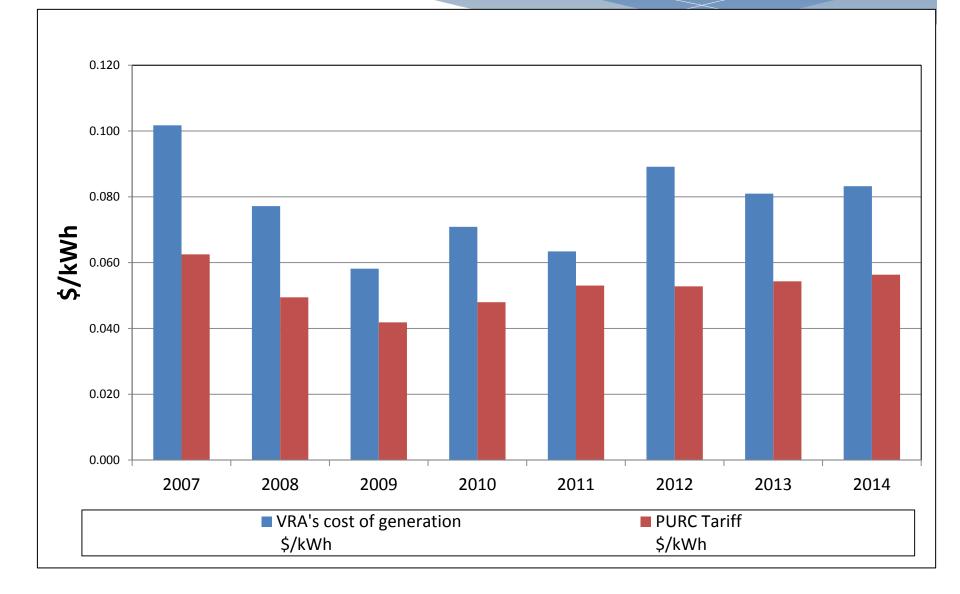
www.vra.com Rising Cost of Electricity Generation



BGT Increases Have Been Marginal In Real Terms Due to Currency Depreciation Despite Regular Adjustments by PURC

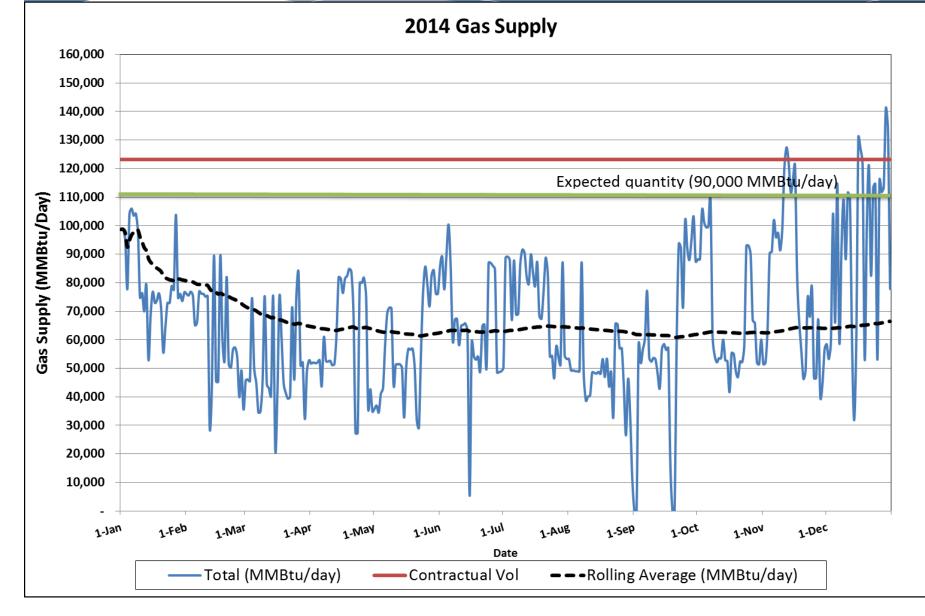


Tariffs Still Remain Below Cost Despite Recent Increases



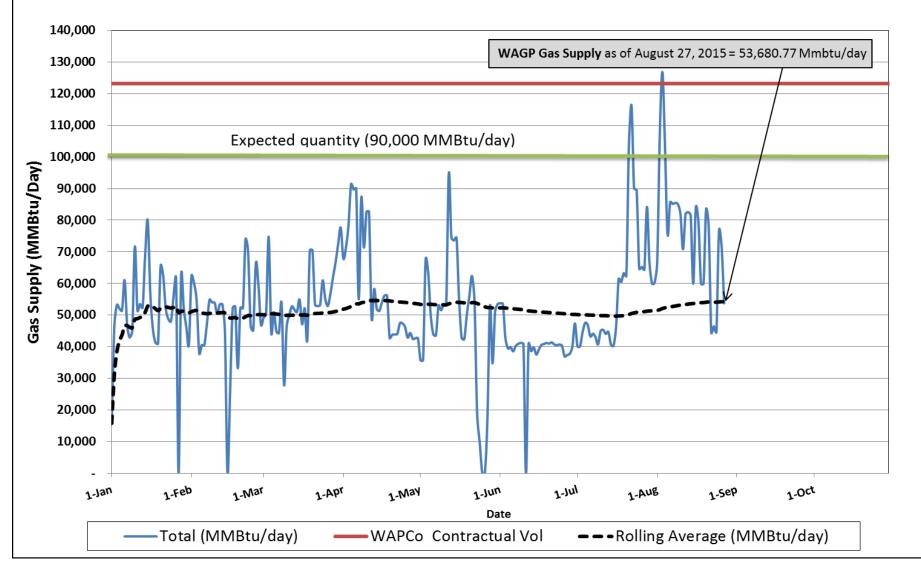
- Low gas supply since beginning of the year.
- Gas supply from Nigeria has always been erratic and 2014 was no exception.
- Discussions are on-going for additional gas supplies with potential gas supplies in Nigeria.
- Considering a proposal from Quantum Power Ghana Gas (QPRGG) to deliver re-gasified LNG to our plants in Tema.

NIGERIA GAS SUPPLY



NIGERIA GAS SUPPLY

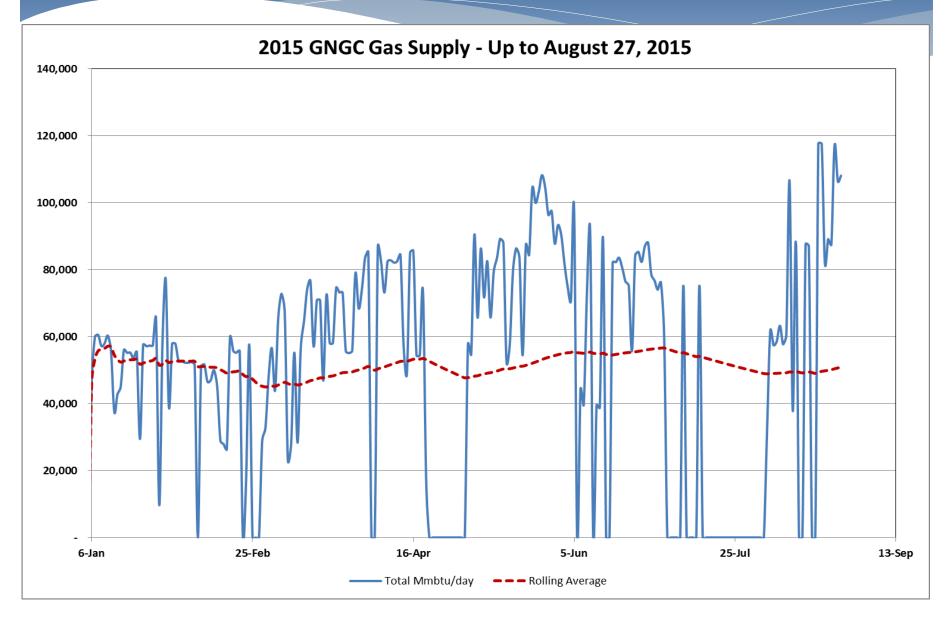
2015 WAGP Gas Supply - Up to August 27, 2015



GAS SUPPLY FROM GHANA

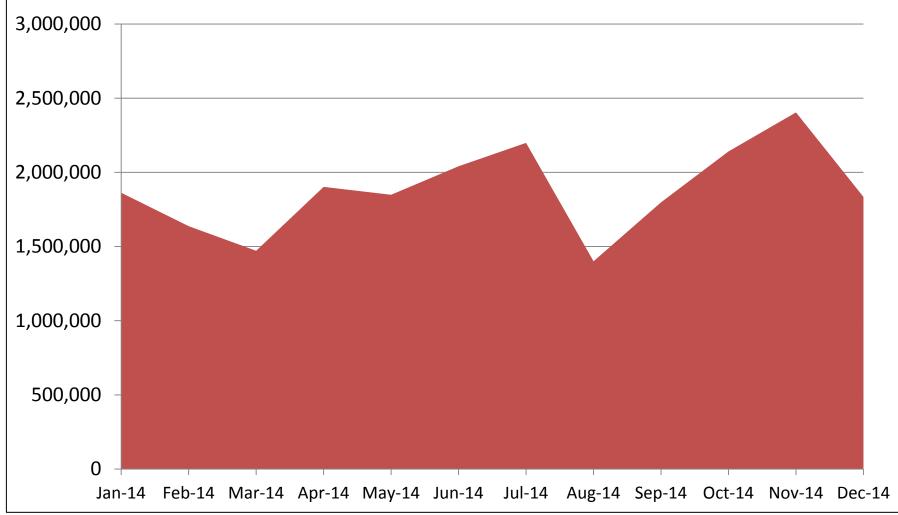
- Jubilee gas production started late 2014 with frequent interruptions, mainly as a result of unavailability of enough thermal generation units or fault at gas supply facility
- Need for additional gas supplies because of inadequacy of gas supply from Ghana Gas Company & Nigeria to meet the national gas demand

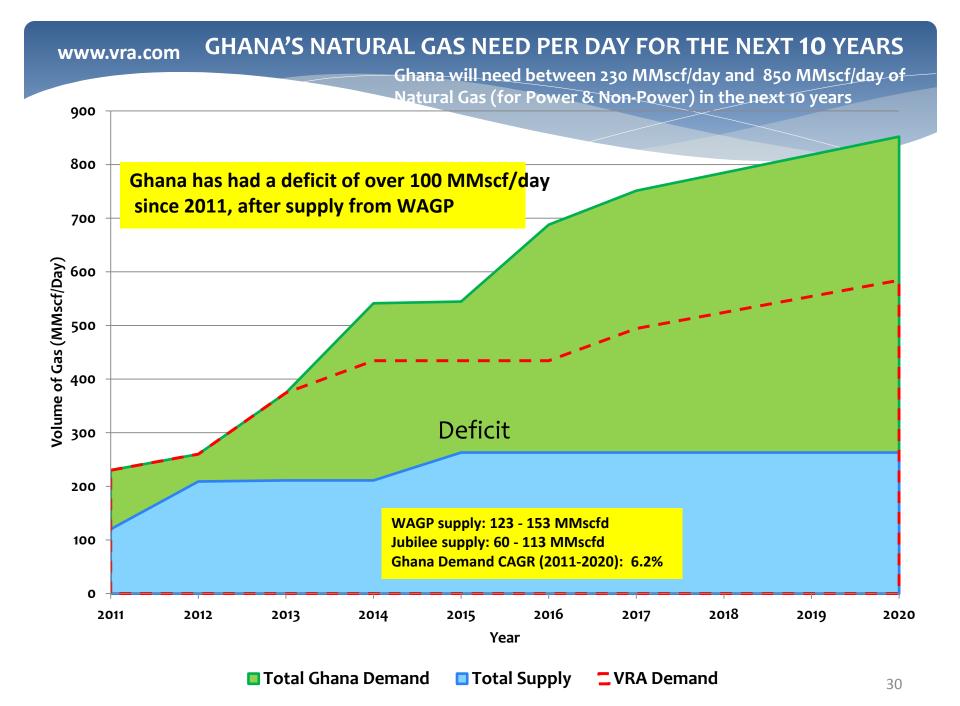
GAS SUPPLY FROM GHANA



Low Gas Supply Volumes

Gas Consumed (2014) - MMBtu(NGAS)





INFLOW FOR HYDRO GENERATION www.vra.com Akosombo Net Inflow (cfs) : 2014, 2013, 2012, 2011 and LTA 300,000.00 250,000.00 LTA 2011 200,000.00 2012 2013 Net Inflow (cfs) 150,000.00 2014 100,000.00 50,000.00 (50,000.00) 1-Jun 1-Jul 1-Aug 1-Sep 1-Oct 1-Nov 1-Dec 1-Jan 1-Feb 1-Mar 1-Apr 1-May Time (Months) Net Inflow LTA from January to December ending for 2014, 2013, 2012, 2011, and the LTA 28.24 25.14 25.05 19.63 Net Inflow (MAF) 16.73

Below average inflows recorded in 2013 and 2014 resulting in low hydro generation

Time (Years)

2011

LTA

2012

2014

2013

www.vraAlternative fuels being explored to provide security through diversification

Liquefied Natural Gas (LNG):

VRA is exploring the use of LNG that will be re-gasified on a Floating Storage Re-Gasification Unit (FSRU) to supply gas directly to the Power Plants through a pipeline

Clean coal:

Investigations have started into the development of a CLEAN COAL power plant. This is expected to play a dominant role in the national energy





www.vra.con.Payment performance of major customers critical to VRA's financial health

Payment Performance of Major customers

- * ECG purchases about 65% of the power generated by VRA.
- * Payments from ECG has been erratic.
- * VALCO unable to pay fully for power
- Weak financial health of the sector the biggest impediment to investment
- * Situation will improve with arrangement to finance existing ECG receivables
- Long term solution needed to improve performance of distribution sector



SUMMARY

- 2014 was a financially challenging year even though we kept open real possibilities for continued growth and development
 - No Government subsidy to shortfall in lieu of tariff shortfall.
- Stable supply of gas remains highest priority.
- Regulatory framework to promote sustainable capacity additions also critical.
- Ghana's geographic position and political and economic stability position must be properly leveraged.



CONCLUSION

- 2014 was a financially challenging year even though we kept open real possibilities for continued growth and development
 - No Government subsidy to shortfall in lieu of tariff shortfall.
- Stable supply of gas remains highest priority.
- Supply situation to improve as short term generation projects come online
- VRA's financial health is critical to its ability to raise funding for new projects to meet demand growing at 150-200 MW per year at an estimated cost of US\$200-250 million/year
- Regulatory framework to promote sustainable capacity additions is critical.
 - Full implementation of Automatic Adjustment Formula required to ensure full cost recovery



Powering the economy of Ghana and setting the standard for public sector excellence in Africa.

COLUMN ST

Thank You

