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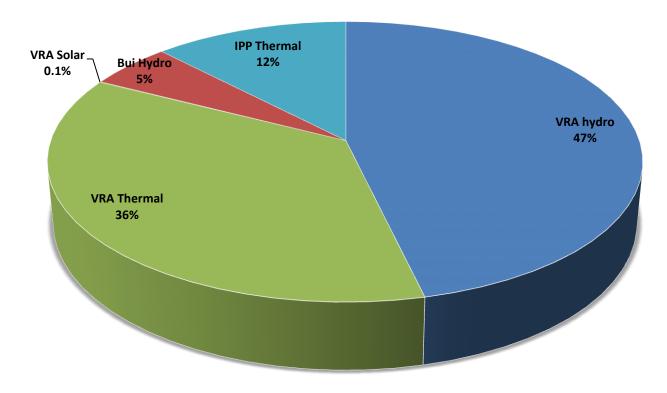


Ghana's Power Outlook



Generation Sources

Installed Generation Sources as at April, 2015





Currently, VRA contributes 75% of the total generation.

Diversification of Supply Sources and Benefits

Supply Sources

- Hydro
- Thermal Gas, LCO & DFO fired plants
- Solar

NB: VRA is in the process of upgrading all simple cycle plants to combine cycle plants

Benefits

- Enhancement of supply reliability
- Supply security
- Reduction of risk to inflow variability and fuel supply challenges



Current Challenges and Mitigation Measures

Challenges

- Inadequate generation capacity reserve
- Lack of Gas supply, limiting thermal generation

Mitigation Measures

- VRA is undertaking more generation projects. VRA is planning to add about 1,000 MW of generation capacity over the next 5 years.
 - This includes upgrade of simple cycle plants to combine cycle to reduce cost of supply.
- Pursuing Solar and wind energy projects
- To secure future gas supply reliability, VRA is pursuing the use of LNG to generate electricity



VRA Installed Capacity

Plants	Installed Capacity MW)	Туре	Fuel Type
Akosombo	1020	Hydro	Water
Kpong	160	Hydro	Water
TAPCO (T1)	330	Thermal	LCO/Gas
TICO (T2)	220	Thermal	LCO/Gas
Т3	132	Thermal	LCO/Gas
TT1PP	110	Thermal	LCO/Gas
TT2PP	49.5	Thermal	DFO/Gas
MRP	80	Thermal	DFO
Solar	2	Renewable	Solar
Total	2,103.5		

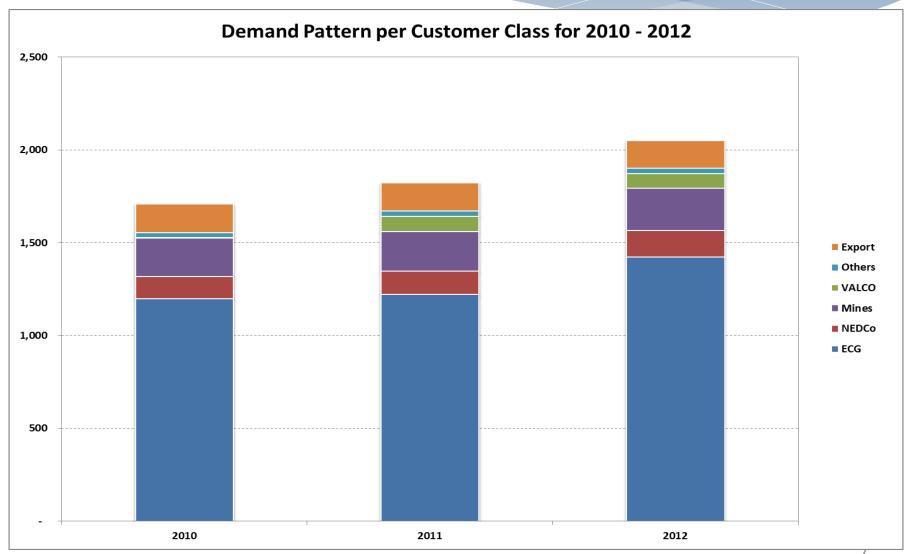


IPP & Other Plants

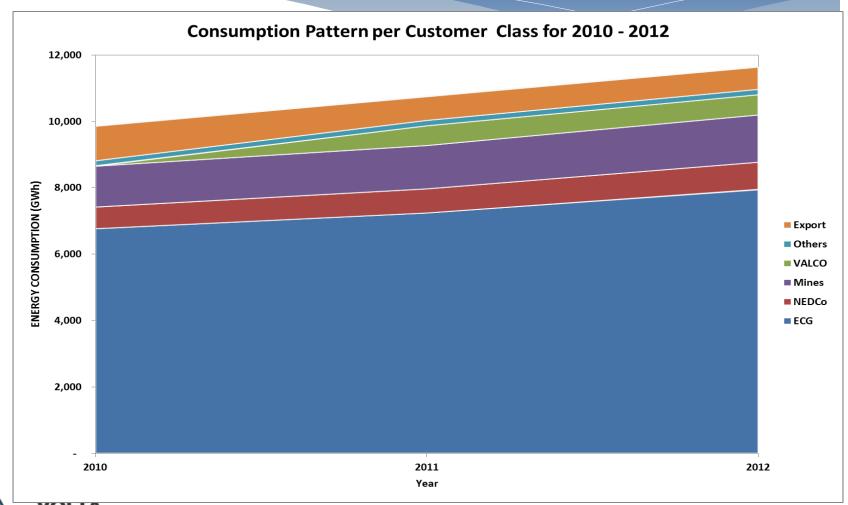
Plants	Installed Capacity (MW)	Туре	Fuel Type
Sunon Asogli	200	Thermal	Gas
CENIT	110	Thermal	LCO/Gas
Bui HEP	133	Hydro	Water
Total	443		
TOTAL GHANA	2546.5		



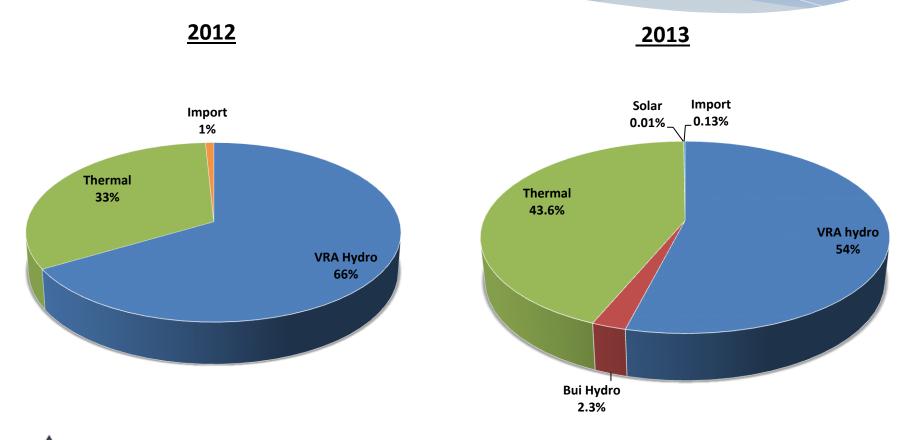
Demand for 2010 - 2012



Consumption for 2010 – 2012

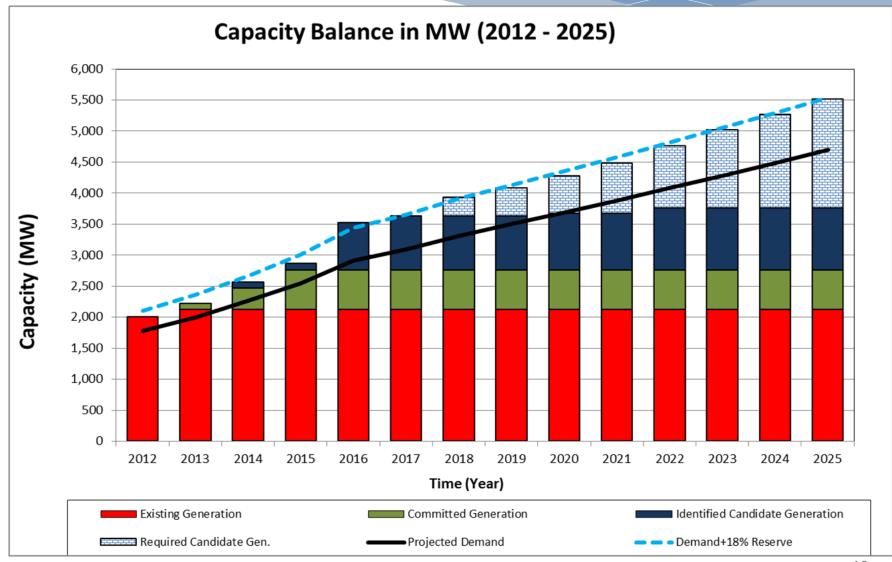


Energy Supply for 2012-2013



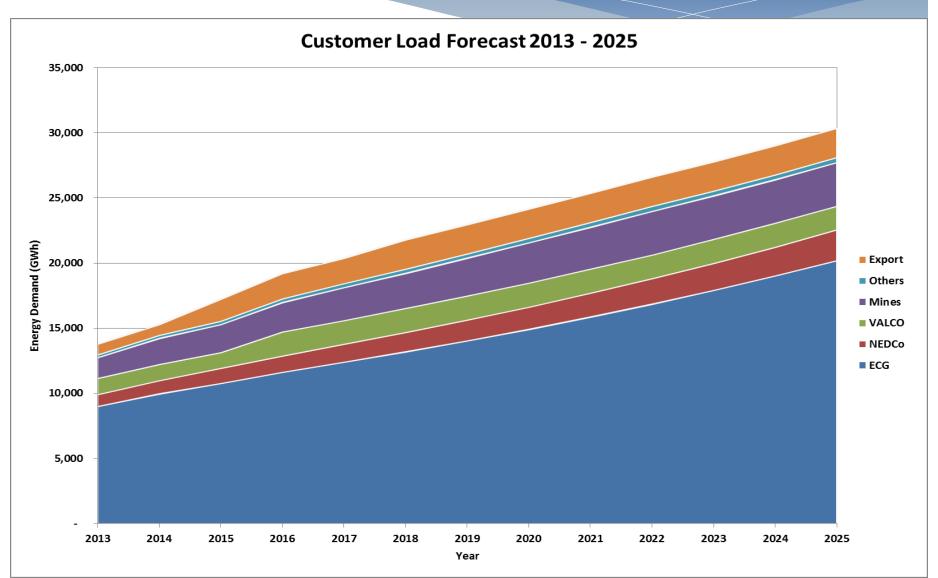
- VOLTA RIVER AUTHORITY
- Total supply for 2012 = 12,122 GWh
- Projected supply for 2013 = 13,502 GWh

Expansion Plan

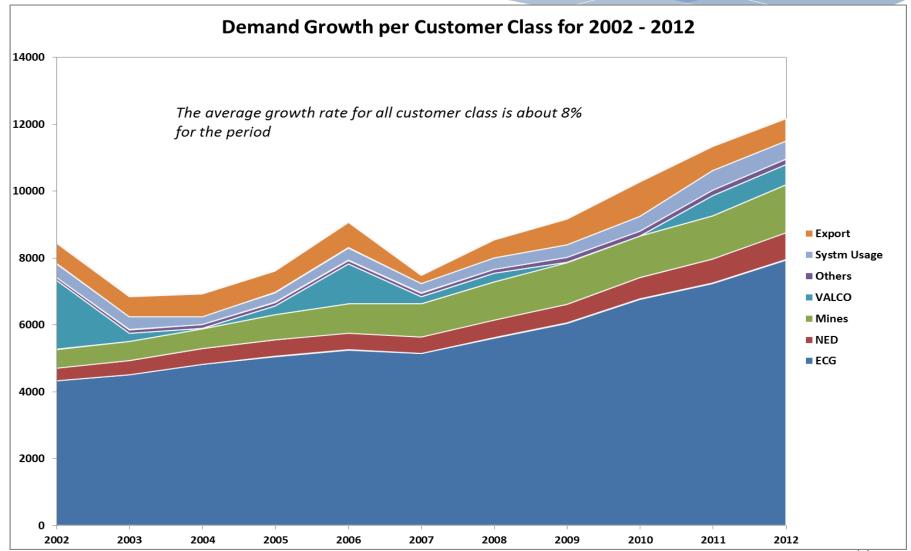


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2013 – 2025 Energy Demand Forecast



Demand Growth per Customer Class



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Thank You

