





NARUC REGULATORY PARTNERSHIP PROGRAMME - SITING ISSUES

Presented By Martin Asare Energy Commission of Ghana





National Association of Regulatory Utility Commissioners

SITING ISSUES Contd.

- No Siting Board for Utility Infrastructure for Ghana.
- Environmental Protection Agency is
- responsible for Environmental Issues

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- Slogan: It is an offence to start a project /
- development without an Environmental Permit

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- EPA Permit is prerequisite for granting EC
- Licence / Permit to construct or develop.
- EPA Certificate must be obtained for operating
- old or new facility.

EPA Requirements:

- > Application
- > Site and Block Plan
- Zoning letter from T & CPD
- > Letter from GNFS
- ➤ Letter from GHA / Urban Roads
- ➤ Letter from District Assembly
- Processing & Permit Fees.

- Right of Way
- Government Compulsory Acquisition
- Private Acquisition
- The Rightful Owner of Land
- Issue about Compensations
- Markings to identify buried Pipelines



- Construction
- EC Requirements
- > EPA Permit
- Proof of Ownership to Land
- ➤ Block & Site Plan
- Detailed Engineering Design with Appropriate Data
- Construction Fee
- Site Investigation

Transmission Planning / Expansion

System	Pipe Diam. (ins)	Length (km)	Estimated Cost US\$M
East (GT. Accra, Volta, Eastern &Central Rgs.)	6-12	487	151
West (Central, Western, Ashanti, B-Ahafo, NR, U.E & U.W	6-20	1175	485
Total			636



- Transmission Planning & Expansion
- Considerations
- Supply and Demand Forecast
- Pipeline selection to meet total expected capacity
- Capital and O&M costs
- Strategic Expansion and Environmental
- Issues
- Optimum Design (lowest service cost and lowest initial capital)



- The demand forms the basis for the design flow. The demand is typically evaluated based on:
- End-User Requirements
- Market Growth Potential
- Historical Demand Profile (if any)
- Profile of Seasonal & Periodic Fluctuations (if any)



- Enforcement and Compliance Investigations
- Through appropriate Rules and Regulations
- Through physical site investigations
- Through informal meeting
- Institutional Failures
- ➤ Lack of monitoring mechanism after issuance of Licence to operate



- The Way Forward......
- To establish a Siting Committee of Utility Infrastructure under the umbrella of the EC to provide One-Stop —Shop approval or energy service providers.
- It is an offence to construct or develop an energy infrastructure without the Sitting Committee's approval