

# Infrastructure Development

Energy Commission

# Infrastructure Financing

- Ownership –
  - Government ownership of main energy infrastructure
  - VRA, ECG, TOR, Gridco etc, Osagyefo Barge, TTP
  - Private Ownership emerging
  - TICO, Sunon Asogli, Cenpower, Saltpond, Tema Osonor
  - PPP –
- All energy infrastructure before 1997 was financed by government and or donors
- Private ownership – financed by equity and or debt

# Infrastructure Investment

- Has followed the trend – Government Investment
- Government is responsible for all investments
- Situation changing following Policy Change in 1996 as a result of donor pressure - worldwide

# Siting Processes

- Introduced in October 2008
- Under Section 9 of Act 541
- All Energy Infrastructure proponents have to go through the Siting Clearance Process

# Siting Guidelines

- Guidelines apply to the siting of the following major energy infrastructure:
  - Electric power generation facility for the production of electrical power and energy for sale to the public, including both conventional and renewable energy generation facilities;
  - Electricity transmission infrastructure including transmission lines, transformer stations, and other substations operated above the 12KV voltage class;
  - Natural gas transmission infrastructure including pipelines, booster stations and regulating and metering stations; and
  - Bio-fuel and bio-diesel production/refinery facility including plant and storage facilities, Liquefied Natural Gas (LNG) facility and Natural Gas Processing facility.

# Siting Committee Membership

- Energy Commission
- PURC
- EPA
- Water Resources Commission
- Town & Country Planning
- Municipal Authority
- Geological Survey Department
- Ghana Grid Company
- Roads & Transport
- Others

# Information in Siting Application

Each Siting Clearance application shall be accompanied with a cover letter containing the following information:

- the name and address of the applicant;
- the name and location of the proposed facility;
- the name and address of the applicant's authorized representative; and
- a declaration that the information contained in the Siting Clearance application is complete and correct to the best knowledge, information and belief of the applicant.

# Completeness of Siting Clearance applications and staff investigations and reports

- Upon receipt of a Siting Clearance application for an energy facility, the Commission shall within **five (5) working days** acknowledge receipt of the application and submit the application to the chairman of the Siting Committee for examination to determine compliance with these guidelines and consequent acceptance or rejection of the application.
- 4.2 Within **ten (10) working days** following receipt of the Siting Clearance application, the chairman of the Siting Committee shall either:
  - (a) accept the Siting Clearance application as complete and complying with the requirements of these guidelines; or
  - (b) reject the Siting Clearance application as incomplete, setting forth specific grounds on which the rejection is based.
- 4.3 The chairman shall mail a copy of the completeness decision to the applicant.
- 4.4 The Siting Committee shall conduct investigation of each accepted, complete application and prepare a written report within a maximum period of **fifteen (15) working days**.
- 4.5 The Siting Committee's report shall set forth the nature of the investigation, and shall contain all recommended findings.
- 4.6 The report shall become part of the licensing application record in respect of the proposed facility.
  - Copies of the report shall be made available to the applicant and all persons who have or shall thereafter become parties to the proceedings.
  - The Commission shall maintain on its web site information as to how to request an electronic or paper copy of the Committee's report.
  - Upon request for a paper copy of the Siting Committee's report, the Commission shall supply the

# Instructions for the Preparation of Clearing Clearance applications for Electric Power Generating Facilities

- **A. Project summary and facility overview**
- **B. Review of need for proposed project**
- **C. Site alternatives analyses**
- **D. Technical data**
- **E. Financial and Economic impact data**
- **F. Environmental data**

# Content 1

- **. Project summary and facility overview**
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- **B. Review of need for proposed project**
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- **1. *Need statement***
- **2. *Description of proposed generation and associated facility:***
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- **3. *Project schedule:***
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# Content 2

- **C. Site alternative analyses**
- **D. Technical data**
- ***Site***
- (a) **Geography and topography**
- (c) **Geology and seismology**
- (d) **Hydrology and wind**

# Content 3

- ***Layout and construction***
- (a) **Site activities**
- (b) **Layout**
- (c) **Structures**
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- (d) **Plans for construction**
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- (e) **Future plans**
- 3. **Equipment**
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- 4. **Power Evacuation arrangement and facilities**

# Content 4

- **E. Financial & Economic impact data**
- **2. Capital and intangible costs.**
- **3. Operation and maintenance expenses.**
- **4. Delays**
- **5. Economic impact data**
- **F. Environmental data**

