

INFRASTRUCTURE FOR THE NUCLEAR POWER PROGRAMME IN GHANA

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INPRO Dialogue 8 - Toward Nuclear Energy
System Sustainability: Economics, Resource
Availability, and Institutional Arrangements

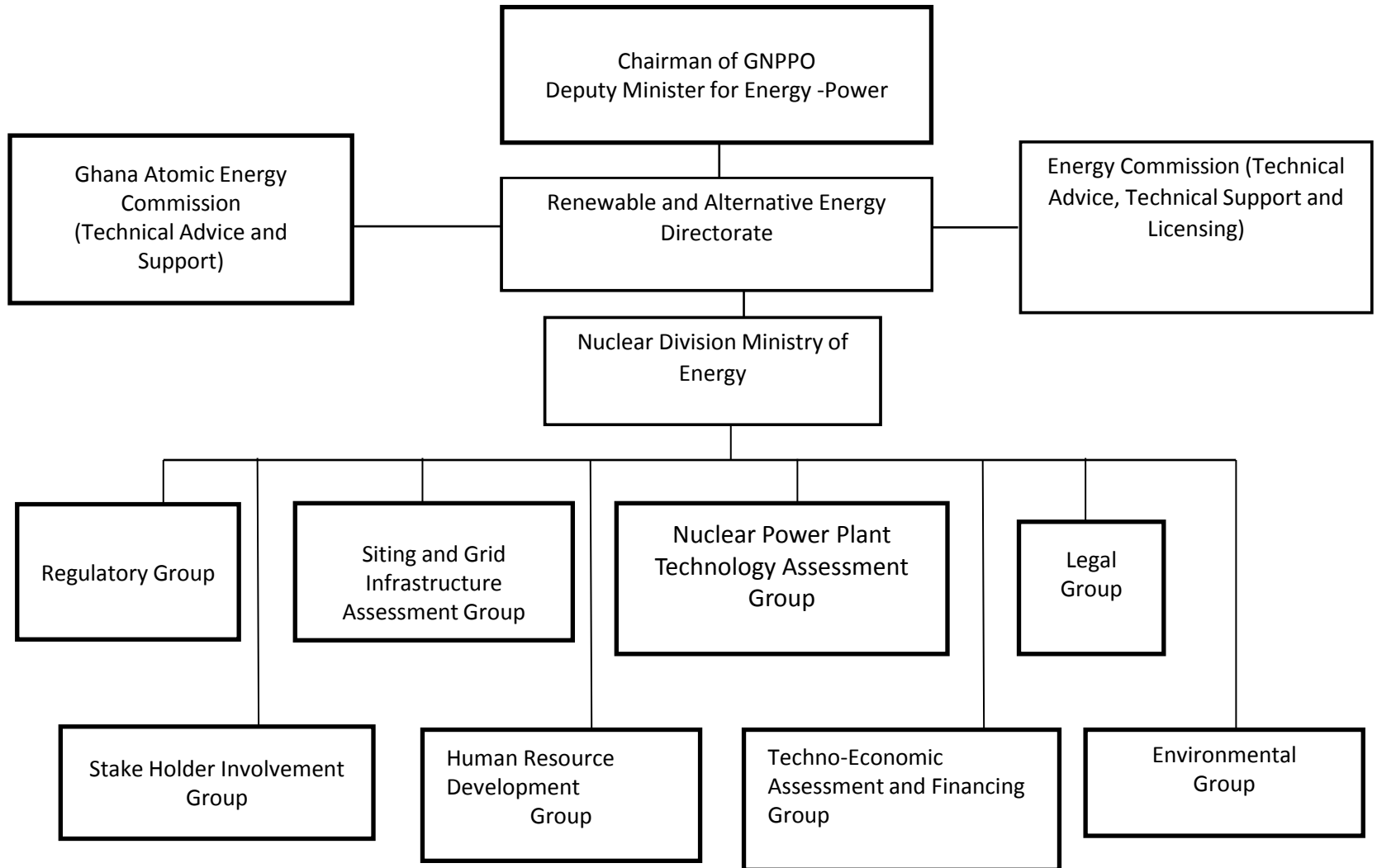
INTRODUCTION

- **Ghana started its quest for Nuclear Power since 1964**
- **Peak electricity demand for the domestic market is projected to exceed 5,000 MW and 10,000 MW in 2015 and 2020 respectively**
- **Existing installed capacity is just below 3,000 MW which must almost be quadrupled to meet peak power demand in 2020**
- **Currently the shortfall is over 750 MW, and taking a toll on the economy**
- **In 2008, a Presidential Commission was formed and the recommended a nuclear option**

INFRASTRUCTURE

- **Energy Planning Studies & Plan**
 - ✓ **Energy demand**
 - ✓ **Resource availability**
- **Political Support**
 - **Government commitment to IAEA**
 - **Formation of GNPPPO (Ghana's NEPIO)**
 - **National Energy Policy include Nuclear Power**
 - **National Science, Technology and Innovation Policy**
 - **Nuclear Power Centre established**
- **Public Acceptance Issues**
 - **Honest, sincere, continuous communication on nuclear/radiation safety/security**
 - **GNS & the Students Chapter, GMPA Fora**
 - **Public Hearing on Nuclear Regulatory Bill**

STRUCTURE OF GNPPO



INFRASTRUCTURE

- **Human Resource**
 - **Training in Overseas Universities (Faculty development)**
 - **Workforce plan have been developed**
 - **Curriculum development for technical education @ Polytechnic and undergraduate levels**
 - **Training in Local Universities (on going)**
- **Legal & Institutional**
 - **Bill for establishing Independent Nuclear Regulatory Authority (NRA) is in Parliament**
 - **5 Convention and Treaties also in Parliament**
 - **Physical infrastructure and initial Personnel man it trained and ready**

INFRASTRUCTURE

- **Technical Infrastructure**
 - **Site**
 - **Grid**
 - **Technology**
(PWR, 700 – 1200 MW, Passive, Proven tech.)
- **Industrial & Economic**
 - **Industrialization Programme**
 - **National Developmental Programme**
- **International Cooperation**
 - **MOU/MOA with Technology Holders**
 - **Participating/Joining NPP Organisations (INPRO, WNA, etc)**

THANK YOU