ENERGY COMMISSION GHANA

GIS FOR ENERGY PLANNING LESSONS FROM THE GHANAIAN
EXPERIENCE

PUTTING IT ALL TOGETHER

■ LEGAL FRAMEWORK

- Energy Commission Act, 1997 (Act 541)
 - Section 2(d) of the Act requires the establishment of a national energy database for national decision-making

■ INSTITUTIONAL FRAMEWORK

- Stakeholder Identification and Roles
 - Ministry of Energy and Petroleum (MoEP)
 - Ministry of Local Government and Rural Development
 - Energy Commission (EC)
 - National Petroleum Authority (NPA)
 - Northern Electricity Distribution Company (NEDCo)
 - Electricity Company of Ghana (ECG)
 - Ghana Statistical Service (GSS)
 - The Energy Centre (TEC)
 - Centre for Remote Sensing and Geographic Information Systems (CERSGIS)

RESOURCES

HUMAN

- Energy Experts
- IT and Data development Experts
- GIS Experts
- Communicators Parliamentarians, Heads of Institutions, Teachers/Lecturers, Journalists

FINANCIAL

- Software development
- Equipment procurement
- Human resource recruitment and training
- Maintaining the Ghana Energy Access Data Task Force

COMMUNICATION STRATEGIES

- Websites of State Institutions
- Stakeholder consultations before, during and after project
- Other Data Platforms
 - GODI
 - CERSGIS
 - ECOWREX
- Energy Journalists
- Social Media

SUMMARY OF LESSONS LEARNED

TEAMWORK

- Identify shared goals
- Share results/benefits
- Shared challenges
- Saves money and time eliminates duplication of efforts

DATA SECURITY

 Ensure no protocols are breached as regards various datasets – flexibly classify

PROJECT SUSTAINABILITY

- Role of the Ghana Energy Data Task Force
- Funding

LESSONS LEARNED (CONT)

BENEFITS OF GIS FOR ENERGY PLANNING

Government

- A comprehensive, one-stop database enhances policy formulation and decision-making
- Facilitates monitoring and evaluation of energy access; value for money assessment opportunity

Business

- Ease of access to data for business and investment planning
- Availability of relevant, timely and reliable data
- Facilitates investments in the energy sub-sector

Academia

- Reduced cost of research
- Enhanced quality of research
- Motivation for further research
- Enhanced teaching and learning activities
- Bridges some of the gap between academia and industry

LESSONS LEARNED (CONT)

CHALLENGES

- Lack of awareness of GIS
- Apathy towards information development, management
- Unwillingness of data owners to share data
- Funding
- Poor infrastructure poor town and country planning

MERCI!