Energy and Rural Electrification Planning, the role of GIS in Ghana

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OUTLINE

- Institutions involved in Energy and Rural Electrification Planning
- Sector Goals
- Projects implemented/underway to attain goals
- The use of GIS-Based Toolkits in Energy & Rural Electrification Planning
- Contact Institution for Geographical Information/maps etc
INSTITUTIONS INVOLVED IN ENERGY & RURAL ELECTRIFICATION PLANNING

MINISTRY OF ENERGY & PETROLEUM

GEDAP SECRETARIAT

POWER & RENEWABLE ENERGY DIRECTORATES

SECTOR INSTITUTIONS
(ENERGY COMMISSION, ECG, NEDCo etc.)
SECTOR GOALS FOR RURAL ELECTRIFICATION

- Increase electricity access from 76% presently to universal access by 2016
- Improve and modernize electricity distribution infrastructure to reduce system losses from 25% to 18% by 2015
- Increase installed generation capacity to 5,000MW in the short term (2016)
- Increase participation of IPP’s in the power sector
- Develop a non-congested electricity transmission network by 2015
PROJECTS IMPLEMENTED/UNDERWAY TO ATTAIN GOALS

National Electrification Scheme (NES)

✓ Self-Help Electrification Programme (SHEP)
  - Community must be within 20km of an existing 11kV/33kV network
  - Community must be willing to procure and erect all the Low Voltage poles required for the works
  - A minimum of one-third of houses in the community should be wired

✓ GEDAP

✓ Turnkey Projects – Communities are provided with all materials. Contractors include: Weldy Lamont, CWE, Thengashep, Hunan, MBH (Pvt) Ltd.
✓ Developed by The Energy Centre (KNUST)

Ghana Energy Access (GhEA) Toolkit
✓ GEAR Toolkit + Energy Commission Toolkit
CONTACT INSTITUTION FOR GEOGRAPHICAL INFORMATION/MAPS ETC.

ENERGY COMMISSION

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Thanks!

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