ELECTRICITY COMPANY OF GHANA

DISTRIBUTION NETWORK DATA
Introduction:

The Electricity Company of Ghana is a wholly Ghana Government owned utility company responsible for the distribution of electrical energy in the Southern part of Ghana. It is technically regulated by the Energy Commission and commercially by the Public Utilities Regulatory Commission.
DATA ON ECG NETWORK

1. Length of Medium Voltage Network at each Operating Voltage.

11kV

- Underground cable: 1,715.19 km
- Overhead line: 17,753.56 km
- Total 11kV Feeders (km): 19,468.75 km

33kV

- Underground cable: 1,824.17 km
- Overhead line: 17,403.77 km
- Total 33kV feeders (km): 19,227.94 km
Number of Primary Substations (33kV/11kV) 108

Installed capacity 2,702 MVA

Number of secondary substations (11kV/0.415kV) 14,277

Installed capacity 2,275 MVA
2. Number of Customers

a. Special Load Tariff (SLT Industries) 2,630
   Inactive  683
   Active    1,947

b. Non SLT (Residential/Non Residential) 1,630,444
   Inactive  385,406
   Active    1,245,038
c. Prepayment Metering (PPM)  
   Total Active  2,267,587  
   Total Inactive  386,089  
   Grand Total (All customers)  2,593,676  
   Percentage of customers on PPM  =  37.04%  

3. Electricity Access  74%  
   Rural electrification Programme by Gov’t.
4. Revenue collection % 84%

Government owes more than 50% of all debt.

Recovery strategy:

- Government has directed the installation of PPM in MDA (Ministry, Department and Agencies) Premises
- Debt recovery officers appointed
- Revenue collection activities intensified
- Public announcement
- Disconnections
5. Technical loss % (study done) 12%
Network improvement projects going on.
Overloading on feeders and transformers are being addressed
High Voltage Distribution System (HVDS) has started on pilot basis.

Energy efficient Bulbs:
In 2007, Government replaced incandescent lamps in rural areas and;
Placed a ban on importation and sale of incandescent lamps.