

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
Overhead line	-	17,753.56
Total 11kV Feeders (km)	-	19,468.75

33kV

Underground cable -		1,824.17
Overhead line -		17,403.77
Total 33kV feeders (km)		19,227.94

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)	960,602
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.

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.